

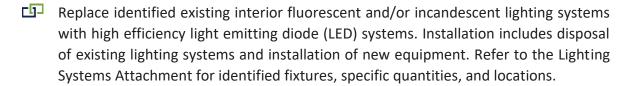
EXHIBIT B

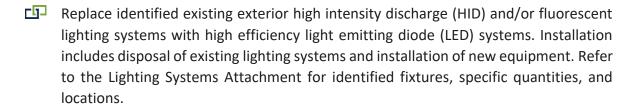
Attachment A: Scope of Work



High Desert Government Center (15900 Smoke Tree Street, Hesperia)

Lighting Systems





Mechanical Systems

- Replace select HVAC units with new high efficiency units of similar size, type and capacity. Replacement will include demolition of existing equipment and turn-key installation of new equipment with start-up / testing of the new installation. Refer to the HVAC Systems Attachment for specific equipment information, locations, and capacities.
- Replace the two existing heating hot water boilers with high efficiency units of similar size and capacity. Replacement will include demolition of existing equipment and turn-key installation of new equipment with start-up / testing of the new installation. Refer to the HVAC Systems Attachment for specific equipment information, locations, and capacities.
- Replace the two existing heating hot water pumps with high efficiency units of similar size and capacity. Replacement will include demolition of existing equipment and turn-key installation of new equipment with start-up / testing of the new installation. Refer to the HVAC Systems Attachment for specific equipment information, locations, and capacities.

Renewable Energy Systems

Install a new rooftop and carport mounted solar photovoltaic (PV) system. The system will be owned, operated, and maintained by the County. Refer to the Preliminary Solar Layouts Attachment for proposed system layouts. Final system layouts to be approved by the County after final design and coordination is complete. Refer to the Renewable Energy Systems Attachment for details on location, system size, and production.



High Desert Detention Center (9438 Commerce Way, Adelanto)

Renewable Energy Systems

Install a new rooftop and carport mounted solar photovoltaic (PV) system. The system will be owned, operated, and maintained by the County. Refer to the Preliminary Solar Layouts Attachment for proposed system layouts. Final system layouts to be approved by the County after final design and coordination is complete. Refer to the Renewable Energy Systems Attachment for details on location, system size, and production.

West Valley Adult Detention Center (9500 Etiwanda, Rancho Cucamonga)

Lighting Systems

Replace identified existing interior fluorescent and/or incandescent lighting systems with high efficiency light emitting diode (LED) systems. Installation includes disposal of existing lighting systems and installation of new equipment. Refer to the Lighting Systems Attachment for identified fixtures, specific quantities, and locations.

Renewable Energy Systems

Install a new rooftop, carport and ground mounted solar photovoltaic (PV) system. The system will be owned, operated, and maintained by the County. Refer to the Preliminary Solar Layouts Attachment for proposed system layouts. Final system layouts to be approved by the County after final design and coordination is complete. Refer to the Renewable Energy Systems Attachment for details on location, system size, and production.

Sheriff Training Center (18900 Institution Rd, Devore)

Lighting Systems

- Replace identified existing interior fluorescent and/or incandescent lighting systems with high efficiency light emitting diode (LED) systems. Installation includes disposal of existing lighting systems and installation of new equipment. Refer to the Lighting Systems Attachment for identified fixtures, specific quantities, and locations.
- Replace identified existing exterior high intensity discharge (HID) and/or fluorescent lighting systems with high efficiency light emitting diode (LED) systems. Installation includes disposal of existing lighting systems and installation of new equipment. Refer to the Lighting Systems Attachment for identified fixtures, specific quantities, and locations.



Mechanical Systems

Replace select wall mount heat pump units with new high efficiency units of similar size, type and capacity. Replacement will include demolition of existing equipment and turn-key installation of new equipment with start-up / testing of the new installation. Refer to the HVAC Systems Attachment for specific equipment information, locations, and capacities.

Control Systems

Install a new Building Automation System (BAS) from Pelican Controls (BAStat) to control the single zone HVAC equipment. The new system will be a networked globally programmable web-based system with a single point of access to adjust equipment schedules and space temperature setpoints. Heating and cooling setpoints will be adjustable by the user within a preprogrammed amount during occupied times. The system will follow a revised, efficient sequence of operations to ensure optimal equipment performance, efficient energy use, and occupant comfort. Refer to the Control Systems Attachment for specific equipment information, locations, and schedule of operations.

Renewable Energy Systems

Install a new rooftop and carport mounted solar photovoltaic (PV) system. The system will be owned, operated, and maintained by the County. Refer to the Preliminary Solar Layouts Attachment for proposed system layouts. Final system layouts to be approved by the County after final design and coordination is complete. Refer to the Renewable Energy Systems Attachment for details on location, system size, and production.

SHR - Narco & SED (1020-1060 Cooley Dr., Colton)

Electrical Systems

Replace select existing dry-type electrical transformers with new ultra-efficient K-rated units of similar size and capacity. Replacement will include demolition of existing equipment and turn-key installation of new equipment with start-up and testing of the new installation. Refer to the Electrical Systems Attachment for specific equipment information and sizes.



Old Crime Lab (200 S. Lena Rd., San Bernardino)

Lighting Systems

Replace identified existing interior fluorescent and/or incandescent lighting systems with high efficiency light emitting diode (LED) systems. Installation includes disposal of existing lighting systems and installation of new equipment. Refer to the Lighting Systems Attachment for identified fixtures, specific quantities, and locations.

Mechanical Systems

Replace select HVAC units with new high efficiency units of similar size, type and capacity. Replacement will include demolition of existing equipment and turn-key installation of new equipment with start-up / testing of the new installation. Refer to the HVAC Systems Attachment for specific equipment information, locations, and capacities.

Control Systems

Install a new Building Automation System (BAS) from Pelican Controls (BAStat) to control the single zone HVAC equipment. The new system will be a networked globally programmable web-based system with a single point of access to adjust equipment schedules and space temperature setpoints. Heating and cooling setpoints will be adjustable by the user within a preprogrammed amount during occupied times. The system will follow a revised, efficient sequence of operations to ensure optimal equipment performance, efficient energy use, and occupant comfort. Refer to the Control Systems Attachment for specific equipment information, locations, and schedule of operations.

Renewable Energy Systems

Install a new rooftop and carport mounted solar photovoltaic (PV) system. The system will be owned, operated, and maintained by the County. Refer to the Preliminary Solar Layouts Attachment for proposed system layouts. Final system layouts to be approved by the County after final design and coordination is complete. Refer to the Renewable Energy Systems Attachment for details on location, system size, and production.

New Crime Lab (711 E. Rialto Ave, San Bernardino)

Lighting Systems

Replace identified existing interior fluorescent and/or incandescent lighting systems with high efficiency light emitting diode (LED) systems. Installation includes disposal



of existing lighting systems and installation of new equipment. Refer to the Lighting Systems Attachment for identified fixtures, specific quantities, and locations.

Coroner (175 S Lena Rd., San Berardino)

Lighting Systems

- Replace identified existing interior fluorescent and/or incandescent lighting systems with high efficiency light emitting diode (LED) systems. Installation includes disposal of existing lighting systems and installation of new equipment. Refer to the Lighting Systems Attachment for identified fixtures, specific quantities, and locations.
- Replace identified existing exterior high intensity discharge (HID) and/or fluorescent lighting systems with high efficiency light emitting diode (LED) systems. Installation includes disposal of existing lighting systems and installation of new equipment. Refer to the Lighting Systems Attachment for identified fixtures, specific quantities, and locations.

Mechanical Systems

Replace select HVAC units with new high efficiency units of similar size, type and capacity. Replacement will include demolition of existing equipment and turn-key installation of new equipment with start-up / testing of the new installation. Refer to the HVAC Systems Attachment for specific equipment information, locations, and capacities.

Renewable Energy Systems

Install a new ground mounted solar photovoltaic (PV) system. The system will be owned, operated, and maintained by the County. Refer to the Preliminary Solar Layouts Attachment for proposed system layouts. Final system layouts to be approved by the County after final design and coordination is complete. Refer to the Renewable Energy Systems Attachment for details on location, system size, and production.

Sheriff Headquarters (655 E. Third St, San Bernardino)

Lighting Systems

Replace identified existing interior fluorescent and/or incandescent lighting systems with high efficiency light emitting diode (LED) systems. Installation includes disposal of existing lighting systems and installation of new equipment. Refer to the Lighting Systems Attachment for identified fixtures, specific quantities, and locations.



Replace identified existing exterior high intensity discharge (HID) and/or fluorescent lighting systems with high efficiency light emitting diode (LED) systems. Installation includes disposal of existing lighting systems and installation of new equipment. Refer to the Lighting Systems Attachment for identified fixtures, specific quantities, and locations.

Mechanical Systems

- Replace six roof-mounted air handlers with six new high efficiency units of similar size, type and capacity. Replacement will include demolition of existing equipment and turn-key installation of new equipment with start-up / testing of the new installation. Refer to the HVAC Systems Attachment for specific equipment information, locations, and capacities.
- Replace three existing old, inefficient 4-pipe fan coil units with three new high efficiency fan coil units. Replacement will include demolition of existing equipment and turn-key installation of new equipment with start-up / testing of the new installation. Refer to the HVAC Systems Attachment for specific equipment information, locations, and capacities.
- Replace a total of four roof mounted old, inefficient packaged DX units (2 x 25-ton) with two new high efficiency packaged cooling-only electric units & (2 x 5-ton) with two new high efficiency packaged gas/electric units of similar size, capacity. Replacement will include demolition of existing equipment and turn-key installation of new equipment with start-up / testing of the new installation. Refer to the HVAC Systems Attachment for specific equipment information, locations, and capacities.
- Replace VAV terminal units associated with the six AHUs. There is a total of 159 older inefficient VAV terminal units of which according to provided drawings, 117 are equipped with hydronic reheat and the remaining 42 do not have reheat capabilities. All 159 VAVs being installed will be installed with the matching reheat capability from the original installation. The 42 VAV units that currently do not have reheat capability will remain with no reheat capability. Replacement will include demolition of existing equipment and turn-key installation of new equipment with start-up / testing of the new installation. Refer to the HVAC Systems Attachment for specific equipment information, locations, and capacities.

Control Systems

Install a new Building Automation System (BAS) from Siemens to control the roof-mounted air handler units, roof mounted packaged gas/electric DX units, three fan coil units along with 117 terminal units with hydronic reheat capability, and 42



terminal units without reheat capability. The new system will control the sequence of operation of the above-mentioned equipment. The sequence of operation will include the start/stop of the equipment and alarming capability. The control points to be monitored and controlled include the following.

| Air Handlers | |
|---|---|
| - Unit Start/Stop | Mixed Air Temperature |
| - Status On/Off | - Duct Static Pressure |
| - Outside Air Damper | Supply fan Status |
| - Outside Air temperture | - Return Fan Status |
| - Supply Air Temperature | - Filter Status |
| - Return Air Temperature | - Alarm Status |
| - Temperature Set-Point | - Airflow Status |
| - Room Temperature | |
| Self Contained Packaged Units | |
| - Unit Start/Stop | - Zone Humidity (AC-1 to AC-4) |
| - Status On/Off | - Zone Temperature |
| - Alarm Status | - Temperature Set-Point |
| - System Shutoff | - Supply Air Temperature |
| oystem onaton | Supply 7111 Temperature |
| VAV Units with Non-Reheat (42 Unit | es) |
| - Supply Air Temperature | - Unit Start/Stop |
| - Zone Temperature | - Status On/Off |
| - Damper Position | |
| VAV Units with Reheat (117 Units) | |
| | 11-i+ C++/C+ |
| Supply Air Temperature | - Unit Start/Stop |
| - Supply Air Temperature - Zone Temperature | - Unit Start/Stop - Status On/Off |
| - Zone Temperature | - Status On/Off |
| - Zone Temperature - Damper Position | • |
| - Zone Temperature | • |
| - Zone Temperature - Damper Position | • |

Electrical Systems

Replace select existing dry-type electrical transformers with new ultra-efficient K-rated units of similar size and capacity. Replacement will include demolition of existing equipment and turn-key installation of new equipment with start-up and testing of the new installation. Refer to the Electrical Systems Attachment for specific equipment information and sizes.



Bob Burke JOS Govt. Center (63665 29 Palms Highway, Joshua Tree)

Lighting Systems

- Replace identified existing interior fluorescent and/or incandescent lighting systems with high efficiency light emitting diode (LED) systems. Installation includes disposal of existing lighting systems and installation of new equipment. Refer to the Lighting Systems Attachment for identified fixtures, specific quantities, and locations.
- Replace identified existing exterior high intensity discharge (HID) and/or fluorescent lighting systems with high efficiency light emitting diode (LED) systems. Installation includes disposal of existing lighting systems and installation of new equipment. Refer to the Lighting Systems Attachment for identified fixtures, specific quantities, and locations.

County Building (8575 Haven Ave., San Bernardino)

Lighting Systems

Replace identified existing interior fluorescent and/or incandescent lighting systems with high efficiency light emitting diode (LED) systems. Installation includes disposal of existing lighting systems and installation of new equipment. Refer to the Lighting Systems Attachment for identified fixtures, specific quantities, and locations.

Mechanical Systems

Replace 24 packaged heat pump units and one packaged split heat pump unit with new high efficiency units of similar size, type and capacity. Replacement will include demolition of existing equipment and turn-key installation of new equipment with start-up / testing of the new installation. Refer to the HVAC Systems Attachment for specific equipment information, locations, and capacities.

Control Systems

Install a new Building Automation System (BAS) from Pelican Controls (BAStat) to control the single zone HVAC equipment. The new system will be a networked globally programmable web-based system with a single point of access to adjust equipment schedules and space temperature setpoints. Heating and cooling setpoints will be adjustable by the user within a preprogrammed amount during occupied times. The system will follow a revised, efficient sequence of operations to ensure optimal equipment performance, efficient energy use, and occupant comfort. Refer to the Control Systems Attachment for specific equipment information, locations, and schedule of operations.



Renewable Energy Systems

Install a new carport mounted solar photovoltaic (PV) system. The system will be owned, operated, and maintained by the County. Refer to the Preliminary Solar Layouts Attachment for proposed system layouts. Final system layouts to be approved by the County after final design and coordination is complete. Refer to the Renewable Energy Systems Attachment for details on location, system size, and production.

New Hall of Records (222 W. Hospitality Lane, San Bernardino)

Lighting Systems

Replace identified existing interior fluorescent and/or incandescent lighting systems with high efficiency light emitting diode (LED) systems. Installation includes disposal of existing lighting systems and installation of new equipment. Refer to the Lighting Systems Attachment for identified fixtures, specific quantities, and locations.

Electrical Systems

Replace select existing dry-type electrical transformers with new ultra-efficient K-rated units of similar size and capacity. Replacement will include demolition of existing equipment and turn-key installation of new equipment with start-up and testing of the new installation. Refer to the Electrical Systems Attachment for specific equipment information and sizes.

Renewable Energy Systems

Install a new rooftop and carport mounted solar photovoltaic (PV) system. The system will be owned, operated, and maintained by the County. Refer to the Preliminary Solar Layouts Attachment for proposed system layouts. Final system layouts to be approved by the County after final design and coordination is complete. Refer to the Renewable Energy Systems Attachment for details on location, system size, and production.

County Facility (412 Hospitality, San Bernardino)

Lighting Systems

Replace identified existing interior fluorescent and/or incandescent lighting systems with high efficiency light emitting diode (LED) systems. Installation includes disposal of existing lighting systems and installation of new equipment. Refer to the Lighting Systems Attachment for identified fixtures, specific quantities, and locations.



Electrical Systems

Replace select existing dry-type electrical transformers with new ultra-efficient K-rated units of similar size and capacity. Replacement will include demolition of existing equipment and turn-key installation of new equipment with start-up and testing of the new installation. Refer to the Electrical Systems Attachment for specific equipment information and sizes.

Dept. of Public Health (451 E. Vanderbilt Way, San Bernardino)

Lighting Systems

Replace identified existing interior fluorescent and/or incandescent lighting systems with high efficiency light emitting diode (LED) systems. Installation includes disposal of existing lighting systems and installation of new equipment. Refer to the Lighting Systems Attachment for identified fixtures, specific quantities, and locations.

Mechanical Systems

- Replace four packaged 90-ton gas/electric HVAC units with new high efficiency units of similar size, type and capacity. Replacement will include demolition of existing equipment and turn-key installation of new equipment with start-up / testing of the new installation. Refer to the HVAC Systems Attachment for specific equipment information, locations, and capacities.
- Replace three split HVAC units with new high efficiency HVAC units of similar size, type and capacity. Replacement will include demolition of existing equipment and turn-key installation of new equipment with start-up / testing of the new installation. Refer to the HVAC Systems Attachment for specific equipment information, locations, and capacities.
- Replace the two existing heating hot water boilers with high efficiency units of similar size and capacity. Replacement will include demolition of existing equipment and turn-key installation of new equipment with start-up / testing of the new installation. Refer to the HVAC Systems Attachment for specific equipment information, locations, and capacities.
- Replace the existing heating hot water pump with two new high efficiency pumps, each of similar size and capacity of the single existing pump. The addition of the second pump will provide additional redundancy. All required piping requirements will be made to the HHW pumping system. Replacement will include demolition of existing equipment and turn-key installation of new equipment with start-up / testing



of the new installation. Refer to the HVAC Systems Attachment for specific equipment information, locations, and capacities.

Electrical Systems

Replace select existing dry-type electrical transformers with new ultra-efficient K-rated units of similar size and capacity. Replacement will include demolition of existing equipment and turn-key installation of new equipment with start-up and testing of the new installation. Refer to the Electrical Systems Attachment for specific equipment information and sizes.

Multiple Sites County-Wide

EV Chargers

Install ten (10) new EV Loop Flex Level 2 Chargers throughout the County where solar PV carports will be installed as part of this energy efficiency and renewable energy project. The system will be owned, operated, and maintained by the County. Refer to the EV Chargers Attachment for specific equipment information.



Scope of Work Inclusions and Exclusions:

- 1. Includes the recovery and disposal of removed units as per EPA guidelines.
- 2. Includes temporary HVAC (cooling or heating) during construction.
- 3. Includes air balancing of the existing ductwork.
- 4. Includes all necessary design and engineering required for permitting and commissioning of mechanical and electrical scopes of work.
- 5. Includes structural engineering for the solar carport installation.
- 6. Includes tombstone lighting for all new interior lighting scope of work at all facilities.
- 7. Excludes identification and removal of any hazardous material (such as lead, mold and asbestos).
- 8. Excludes any specialty smoke detectors, fire alarm work or testing, except those required by code due to scope of work being performed.
- Excludes any existing electrical issues of power wiring. ABS is responsible for confirming electrical service, switchgear size and distribution can accommodate any proposed new mechanical system equipment that adds additional new load to the system.
- Excludes any structural penetrations or reinforcement or engineering, except for scope of work that includes roof mounted mechanical or solar equipment imposing new or additional load.
- 11. If new or additional load is added, then a structural analysis by a California registered licensed engineer shall be provided to either confirm the adequacy of existing roof structure, or additional supports shall be designed and constructed that may be necessary.
- 12. Excludes permit, plan check and utility fees.
- 13. Includes all concrete and asphalt work required due to scope of work being performed. Excludes concrete and asphalt work for additional work requested by the County.
- 14. Excludes modifications and upgrading of existing systems to current codes, unless the scope of work triggers a requirement by code.
- 15. Excludes LEED Design, evaluation, calculations, or consulting on LEED documentation.
- 16. Excludes any unforeseen conditions.



Attachment B: Lighting Systems

San Bernardino County

Detailed Lighting Inventory - San Bernardino County - 412 Hospitality



| | Genera | I Information | Exi | isting Fixture | Data | | | Pro | posed Fixture Data | | |
|----|--------------|----------------------------|-------------------|----------------|---------------|---------------|-------------------------|--|--|----------------|-----|
| # | Buildin g | Room/Area | Fixture Type | Lighting (Pre) | Pre- Watts | Pre # Fixt | Lamps per Fixture | Lighting (Post) | Recommended Make: Model # | Post- Watts | |
| 1 | Main | Office (4) | Can Rec 6" | CFL 13W 1L | 13 | 5 | 1 | LED 6.5-Watt 6" Downlight Retrofit | ESPEN: VEKR6D/8T/13W-10V | 6.5 | 5 |
| 2 | Main | Office (8) | Can Rec 6" | CFL 13W 1L | 13 | 8 | 1 | LED 6.5-Watt 6" Downlight Retrofit | ESPEN: VEKR6D/8T/13W-10V | 6.5 | 8 |
| 3 | Main | Office (b) (2x Combined) | Can Rec 6" | CFL 13W 1L | 13 | 4 | 1 | LED 6.5-Watt 6" Downlight Retrofit | ESPEN: VEKR6D/8T/13W-10V | 6.5 | 4 |
| 4 | Main | Office (12) | Can Rec 6" | CFL 13W 1L | 13 | 2 | 1 | LED 6.5-Watt 6" Downlight Retrofit | ESPEN: VEKR6D/8T/13W-10V | 6.5 | 2 |
| 5 | Main | 3rd Flr - Elev. Landing Ha | Sconce | CFT 13W 1L | 17 | 8 | 1 | (1) LED 6-Watt 2-pin Lamp Ballast Bypass | Keystone: KT-LED62P-H-840-D | 6 | 8 |
| 6 | Main | 3rd Flr - Elev. Landing Ha | Can Rec 6" | CFT 13W 1L | 17 | 8 | 1 | LED 6.5-Watt 6" Downlight Retrofit | ESPEN: VEKR6D/8T/13W-10V | 6.5 | 8 |
| 7 | Main | Hall Entry | Can Rec 6" | CFT 13W 1L | 17 | 2 | 1 | LED 6.5-Watt 6" Downlight Retrofit | ESPEN: VEKR6D/8T/13W-10V | 6.5 | 2 |
| 8 | Main | Open Area / Hallway | Can Rec 6" | CFT 13W 1L | 17 | 39 | 1 | LED 6.5-Watt 6" Downlight Retrofit | ESPEN: VEKR6D/8T/13W-10V | 6.5 | 39 |
| 9 | Main | Office (6) | Can Rec 6" | CFT 13W 1L | 17 | 8 | 1 | LED 6.5-Watt 6" Downlight Retrofit | ESPEN: VEKR6D/8T/13W-10V | 6.5 | 8 |
| 10 | Main | Office | Can Rec 6" | CFT 26W 1L | 33 | 8 | 1 | LED 9-Watt 6" Downlight Retrofit | ESPEN: VEKR6D/8T/13W-10V | 9 | 8 |
| 11 | Main | Conference Rm | Can Rec 6" | CFT 26W 1L | 33 | 16 | 1 | LED 9-Watt 6" Downlight Retrofit | ESPEN: VEKR6D/8T/13W-10V | 9 | 16 |
| 12 | Main | Stairwell (3x Combined) | Surface Mount | F17T82L | 33 | 18 | 2 | (2) LED 9-Watt 2' Tubes & Ballast | ESPEN: L24T8/840/12P-EB , VE2P32MVHIPE | 20 | 18 |
| 13 | Main | Hallway Entry | Strip 4' | F32T81L | 31 | 8 | 1 | (1) LED 12-Watt 4' Tube & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 12 | 8 |
| 14 | Main | Storage | SM 4' | F32T82L | 59 | 1 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 1 |
| 15 | Main | Open Area | Rec 2'x4' Troffer | F32T82L | 59 | 37 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 37 |
| 16 | Main | Office (13x Combined) | Rec 2'x4' Troffer | F32T82L | 59 | 26 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 26 |
| 17 | Main | Server Rm | SM 4' | F32T82L | 59 | 1 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 1 |
| 18 | Main | Copy Rm | SM 4' | F32T82L | 59 | 3 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 3 |
| 19 | Main | Office | SM 4' | F32T82L | 59 | 1 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 1 |
| 20 | Main | 2nd Flr: Storage | Rec 2'x4' Troffer | F32T83L | 89 | 1 | 3 | (3) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE3P32MVHIPE | 36 | 1 |
| 21 | Main | Fire Rm | Rec 2'x4' Troffer | F32T83L | 89 | 2 | 3 | (3) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE3P32MVHIPE | 36 | 2 |
| 22 | Main | Large Rm | Rec 2'x4' Troffer | F32T83L | 89 | 11 | 3 | (3) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE3P32MVHIPE | 36 | 11 |
| 23 | Main | Training Rm (1) | Rec 2'x4' Troffer | F32T83L | 89 | 6 | 3 | (3) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE3P32MVHIPE | 36 | 6 |
| 24 | Main | Office (6x Combined) | Rec 2'x4' Troffer | F32T83L | 89 | 12 | 3 | (3) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE3P32MVHIPE | 36 | 12 |
| 25 | Main | Conference Rm (Lake) | Rec 2'x4' Troffer | F32T83L | 89 | 8 | 3 | (3) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE3P32MVHIPE | 36 | 8 |
| 26 | Main | Office (10x Combined) | Rec 2'x4' Troffer | F32T83L | 89 | 20 | 3 | (3) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE3P32MVHIPE | 36 | 20 |
| 27 | Main | Training Rm (2) | Rec 2'x4' Troffer | F32T83L | 89 | 8 | 3 | (3) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE3P32MVHIPE | 36 | 8 |
| 28 | Main | Open Area | Rec 2'x4' Troffer | F32T83L | 89 | 114 | 3 | (3) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE3P32MVHIPE | 36 | 114 |
| 29 | Main | Restroom | SM 4' | F32T83L | 89 | 1 | 3 | (3) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE3P32MVHIPE | 36 | 1 |
| 30 | Main | Office (3) | Rec 2'x4' Troffer | F32T84L | 112 | 2 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 2 |
| 31 | Main | Office | Rec 2'x4' Troffer | F32T84L | 112 | 1 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 1 |
| 32 | Main | Office (3x Combined) | Rec 2'x4' Troffer | F32T84L | 112 | 6 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 6 |

Detailed Lighting Inventory - San Bernardino County - 412 Hospitality



| | Genera | I Information | Exi | sting Fixture | Data | | | Pro | pposed Fixture Data | | |
|----|--------------|--------------------------|-------------------|----------------|---------------|---------------|-------------------------|------------------------------------|--|----------------|----|
| # | Buildin g | Room/Area | Fixture Type | Lighting (Pre) | Pre- Watts | Pre # Fixt | Lamps per Fixture | Lighting (Post) | Recommended Make: Model # | Post- Watts | |
| 33 | Main | Utility (1) | SM 4' | F40T122L | 72 | 3 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 3 |
| 34 | Main | Utility (2) | SM 4' | F40T122L | 72 | 1 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 1 |
| 35 | Main | Office (1) | Rec 2'x4' Troffer | F40T124L | 144 | 3 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 3 |
| 36 | Main | Office (2) | Rec 2'x4' Troffer | F40T124L | 144 | 3 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 3 |
| 37 | Main | Open/Hall | Rec 2'x4' Troffer | F40T124L | 144 | 16 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 16 |
| 38 | Main | Office (5) | Rec 2'x4' Troffer | F40T124L | 144 | 4 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 4 |
| 39 | Main | Break Rm | Rec 2'x4' Troffer | F40T124L | 144 | 2 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 2 |
| 40 | Main | Interview Rm | Rec 2'x4' Troffer | F40T124L | 144 | 2 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 2 |
| 41 | Main | Office (7) | Rec 2'x4' Troffer | F40T124L | 144 | 2 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 2 |
| 42 | Main | Office (a) (2x Combined) | Rec 2'x4' Troffer | F40T124L | 144 | 4 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 4 |
| 43 | Main | Office (c) (2x Combined) | Rec 2'x4' Troffer | F40T124L | 144 | 2 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 2 |
| 44 | Main | Office (9) | Rec 2'x4' Troffer | F40T124L | 144 | 2 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 2 |
| 45 | Main | Office (10) | Rec 2'x4' Troffer | F40T124L | 144 | 2 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 2 |
| 46 | Main | Office (11) | Rec 2'x4' Troffer | F40T124L | 144 | 6 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 6 |
| 47 | Main | Office (6x Combined) | Rec 2'x4' Troffer | F40T124L | 144 | 12 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 12 |
| 48 | Main | Office (13) | Rec 2'x4' Troffer | F40T124L | 144 | 3 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 3 |
| 49 | Main | Office (14) | Rec 2'x4' Troffer | F40T124L | 144 | 1 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 1 |
| 50 | Main | Office (5x Combined) | Rec 2'x4' Troffer | F40T124L | 144 | 10 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 10 |
| 51 | Main | Office (2x Combined) | Rec 2'x4' Troffer | F40T124L | 144 | 6 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 6 |
| 52 | Main | Office (16) | Rec 2'x4' Troffer | F40T124L | 144 | 2 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 2 |
| 53 | Main | Office | Rec 2'x4' Troffer | F40T124L | 144 | 3 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 3 |
| 54 | Main | Office (15) | Rec 2'x2' Troffer | FU31T8/6 2L | 59 | 4 | 2 | (2) LED 15-Watt 2' U-Tube & Driver | ESPEN: LB48T8U6/850/13P-AB, VE2P32MVHIPE | 30 | 4 |
| 55 | Main | Large Rm | Rec 2'x2' Troffer | FU31T8/6 2L | 59 | 2 | 2 | (2) LED 15-Watt 2' U-Tube & Driver | ESPEN: LB48T8U6/850/13P-AB, VE2P32MVHIPE | 30 | 2 |



Detailed Lighting Inventory - San Bernardino County - Bob Burke Government Center

| | Genera | al Information | Ex | isting Fixture | Data | | | | Proposed Fixture Data | | |
|-------|----------|---------------------------|-------------------|----------------|---------------|---------------|-------------------------|------------------------------------|--|----------------|--------|
| # B | Building | Room/Area | Fixture Type | Lighting (Pre) | Pre- Watts | Pre # Fixt | Lamps per Fixture | Lighting (Post) | Recommended Make: Model # | Post- Watts | Post # |
| 1 Ma | ain | Assessor Office Open Area | Can 6" | CFT 26W 1L | 33 | 3 | 1 | LED 13-Watt 6" Downlight Retrofit | ESPEN: VEKR6D/8T/13W-10V | 13 | 3 |
| 2 Ma | ain | Men's RR | Can 6" | CFT 26W 1L | 33 | 13 | 1 | LED 13-Watt 6" Downlight Retrofit | ESPEN: VEKR6D/8T/13W-10V | 13 | 13 |
| 3 Ma | ain | Restroom | Can 6" | CFT 26W 1L | 33 | 1 | 1 | LED 13-Watt 6" Downlight Retrofit | ESPEN: VEKR6D/8T/13W-10V | 13 | 1 |
| 4 Ma | ain | 1st Flr: Entry (1) | Can 6" | CFM 32W 1L | 36.8 | 8 | 1 | LED 13-Watt 6" Downlight Retrofit | ESPEN: VEKR6D/8T/13W-10V | 13 | 8 |
| 5 Ma | ain | 1st Flr: Entry (2) | Can 6" | CFM 32W 1L | 36.8 | 26 | 1 | LED 13-Watt 6" Downlight Retrofit | ESPEN: VEKR6D/8T/13W-10V | 13 | 26 |
| 6 Ma | ain | Admin/ Waiting | Can 6" | CFM 32W 1L | 36.8 | 7 | 1 | LED 13-Watt 6" Downlight Retrofit | ESPEN: VEKR6D/8T/13W-10V | 13 | 7 |
| 7 Ma | ain | Men's RR | Can 6" | CFM 32W 1L | 36.8 | 8 | 1 | LED 13-Watt 6" Downlight Retrofit | ESPEN: VEKR6D/8T/13W-10V | 13 | 8 |
| 8 Ma | ain | Women's RR | Can 6" | CFM 32W 1L | 36.8 | 8 | 1 | LED 13-Watt 6" Downlight Retrofit | ESPEN: VEKR6D/8T/13W-10V | 13 | 8 |
| 9 Ma | ain | RR (1) | Can 6" | CFM 32W 1L | 36.8 | 1 | 1 | LED 13-Watt 6" Downlight Retrofit | ESPEN: VEKR6D/8T/13W-10V | 13 | 1 |
| 10 Ma | ain | RR (2) | Can 6" | CFM 32W 1L | 36.8 | 1 | 1 | LED 13-Watt 6" Downlight Retrofit | ESPEN: VEKR6D/8T/13W-10V | 13 | 1 |
| 11 Ma | ain | Shower | Can 6" | CFM 32W 1L | 36.8 | 1 | 1 | LED 13-Watt 6" Downlight Retrofit | ESPEN: VEKR6D/8T/13W-10V | 13 | 1 |
| 12 Ma | ain | Janitor Closet | Can 6" | CFM 32W 1L | 36.8 | 1 | 1 | LED 13-Watt 6" Downlight Retrofit | ESPEN: VEKR6D/8T/13W-10V | 13 | 1 |
| 13 Ma | ain | Probation Open Area | Can 6" | CFM 32W 1L | 36.8 | 3 | 1 | LED 13-Watt 6" Downlight Retrofit | ESPEN: VEKR6D/8T/13W-10V | 13 | 3 |
| 14 Ma | ain | RR (3) | Can 6" | CFM 32W 1L | 36.8 | 1 | 1 | LED 13-Watt 6" Downlight Retrofit | ESPEN: VEKR6D/8T/13W-10V | 13 | 1 |
| 15 Ma | ain | RR (4) | Can 6" | CFM 32W 1L | 36.8 | 1 | 1 | LED 13-Watt 6" Downlight Retrofit | ESPEN: VEKR6D/8T/13W-10V | 13 | 1 |
| 16 Ma | ain | Admin/ Waiting | Rec 2'x2' Troffer | F17T82L | 33 | 13 | 2 | (2) LED 9-Watt 2' Tubes & Ballast | ESPEN: L24T8/840/12P-EB , VE2P32MVHIPE | 20 | 13 |
| 17 Ma | ain | Hallway | Rec 2'x2' Troffer | F17T82L | 33 | 9 | 2 | (2) LED 9-Watt 2' Tubes & Ballast | ESPEN: L24T8/840/12P-EB , VE2P32MVHIPE | 20 | 9 |
| 18 Ma | ain | 2nd Flr | Rec 2'x2' Troffer | F17T82L | 33 | 19 | 2 | (2) LED 9-Watt 2' Tubes & Ballast | ESPEN: L24T8/840/12P-EB , VE2P32MVHIPE | 20 | 19 |
| 19 Ma | ain | Men's RR | Vanity | F32T81L | 31 | 1 | 1 | (1) LED 12-Watt 4' Tube & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 12 | 1 |
| 20 Ma | ain | Women's RR | Vanity | F32T81L | 31 | 1 | 1 | (1) LED 12-Watt 4' Tube & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 12 | 1 |
| 21 Ma | ain | RR (1) | Vanity | F32T81L | 31 | 1 | 1 | (1) LED 12-Watt 4' Tube & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 12 | 1 |
| 22 Ma | ain | RR (2) | Vanity | F32T81L | 31 | 1 | 1 | (1) LED 12-Watt 4' Tube & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 12 | 1 |
| 23 Ma | ain | RR (3) | Vanity | F32T81L | 31 | 1 | 1 | (1) LED 12-Watt 4' Tube & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 12 | 1 |
| 24 Ma | ain | RR (4) | Vanity | F32T81L | 31 | 1 | 1 | (1) LED 12-Watt 4' Tube & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 12 | 1 |
| 25 Ma | ain | RR | Vanity | F32T81L | 31 | 1 | 1 | (1) LED 12-Watt 4' Tube & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 12 | 1 |
| 26 Ma | ain | John Roe Office (1) | Rec 2'x4' Troffer | F32T82L | 59 | 2 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 2 |
| 27 Ma | ain | John Roe Office (2) | Rec 2'x4' Troffer | F32T82L | 59 | 5 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 5 |
| 28 Ma | ain | Conference Rm | Rec 2'x4' Troffer | F32T82L | 59 | 4 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 4 |
| 29 Ma | ain | Land Use Open Area | Rec 2'x4' Troffer | F32T82L | 59 | 17 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 17 |
| 30 Ma | ain | Curtis Stone Office | Rec 2'x4' Troffer | F32T82L | 59 | 2 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 2 |
| 31 Ma | ain | Assessor Office Entrance | Rec 2'x4' Troffer | F32T82L | 59 | 3 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 3 |
| 32 Ma | ain | Assessor Office Open Area | Rec 2'x4' Troffer | F32T82L | 59 | 13 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 13 |



Detailed Lighting Inventory - San Bernardino County - Bob Burke Government Center

| | Gener | al Information | Ex | isting Fixture | Data | | | | Proposed Fixture Data | | |
|----|----------|----------------------------|-------------------|----------------|---------------|-------|-------------------------|------------------------------------|---------------------------------------|----------------|----|
| # | Building | Room/Area | Fixture Type | Lighting (Pre) | Pre- Watts | Pre # | Lamps per Fixture | Lighting (Post) | Recommended Make: Model # | Post- Watts | |
| 33 | Main | Assessor Office File Rm | Rec 2'x4' Troffer | F32T82L | 59 | 2 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 2 |
| 34 | Main | Assessor Open Ar. Office | Rec 2'x4' Troffer | F32T82L | 59 | 2 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 2 |
| 35 | Main | Assessor Open Ar. Break Rm | Rec 2'x4' Troffer | F32T82L | 59 | 4 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 4 |
| 36 | Main | Assessor Open Ar. Chaple | Rec 2'x4' Troffer | F32T82L | 59 | 4 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 4 |
| 37 | Main | Board Chambers | Rec 2'x4' Troffer | F32T82L | 59 | 6 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 6 |
| 38 | Main | Elec Rm | Rec 2'x4' Troffer | F32T82L | 59 | 2 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 2 |
| 39 | Main | Probation Area | Rec 2'x4' Troffer | F32T82L | 59 | 6 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 6 |
| 40 | Main | Probation Open Area | Rec 2'x4' Troffer | F32T82L | 59 | 28 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 28 |
| 41 | Main | Media Office | Rec 2'x4' Troffer | F32T82L | 59 | 2 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 2 |
| 42 | Main | Office (1) | Rec 2'x4' Troffer | F32T82L | 59 | 2 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 2 |
| 43 | Main | Storage | SM 2'X4' | F32T82L | 59 | 1 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 1 |
| 44 | Main | Office (2) | Rec 2'x4' Troffer | F32T82L | 59 | 2 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 2 |
| 45 | Main | Office (3) | Rec 2'x4' Troffer | F32T82L | 59 | 1 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 1 |
| 46 | Main | 2nd Flr Office | Rec 2'x4' Troffer | F32T82L | 59 | 1 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 1 |
| 47 | Main | Coroner's Area Open Office | Rec 2'x4' Troffer | F32T82L | 59 | 17 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 17 |
| 48 | Main | Al Huff Office | Rec 2'x4' Troffer | F32T82L | 59 | 2 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 2 |
| 49 | Main | RW Office | Rec 2'x4' Troffer | F32T82L | 59 | 3 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 3 |
| 50 | Main | JS Office | Rec 2'x4' Troffer | F32T82L | 59 | 2 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 2 |
| 51 | Main | Office (4) | Rec 2'x4' Troffer | F32T82L | 59 | 2 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 2 |
| 52 | Main | Break Rm | Rec 2'x4' Troffer | F32T82L | 59 | 6 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 6 |
| 53 | Main | Fire Riser | Rec 2'x4' Troffer | F32T82L | 59 | 1 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 1 |
| 54 | Main | Mustov Rm | Rec 2'x4' Troffer | F32T82L | 59 | 8 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 8 |
| 55 | Main | Janitor | SM 1'x4' Box | F32T82L | 59 | 2 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 2 |
| 56 | Main | 2nd Flr Hall | Rec 2'x4' Troffer | F32T82L | 59 | 9 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 9 |
| 57 | Main | Watch, Comm. Office | Rec 2'x4' Troffer | F32T82L | 59 | 4 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 4 |
| 58 | Main | Armory | SM 1'x4' | F32T82L | 59 | 4 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 4 |
| 59 | Main | Briefing Rm | Rec 2'x4' Troffer | F32T82L | 59 | 8 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 8 |
| 60 | Main | Report Writer | Rec 2'x4' Troffer | F32T82L | 59 | 6 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 6 |
| 61 | Main | Server Rm | Rec 2'x4' Troffer | F32T82L | 59 | 2 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 2 |
| 62 | Main | Traffic Division | Rec 2'x4' Troffer | F32T82L | 59 | 4 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 4 |
| 63 | Main | Kids Rm | Rec 2'x4' Troffer | F32T82L | 59 | 3 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 3 |
| 64 | Main | Men's RR | SM 1'X4' | F32T82L | 59 | 7 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 7 |
| 65 | Main | Lunch Rm | Rec 2'x4' Troffer | F32T82L | 59 | 3 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 3 |



Detailed Lighting Inventory - San Bernardino County - Bob Burke Government Center

| Cou | nty of S | an Bernardino: B | ob Burke JOS | Govt. Cen | ter: I | nteri | or Ligh | nting | | | |
|--------|----------|-----------------------|-------------------|----------------|---------------|-------|-------------------------|------------------------------------|---------------------------------------|----------------|----------------|
| | Genera | al Information | Exi | sting Fixture | Data | | | | Proposed Fixture Data | | |
| # | Building | Room/Area | Fixture Type | Lighting (Pre) | Pre- Watts | | Lamps per Fixture | Lighting (Post) | Recommended Make: Model # | Post- Watts | Post # Fixt |
| 66 | Main | Janitor | SM 1'X4' | F32T82L | 59 | 2 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 2 |
| 67 | Main | Evidence Entry | Rec 2'x4' Troffer | F32T82L | 59 | 4 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 4 |
| 68 | Main | Entry Evidence Locker | Rec 2'x4' Troffer | F32T82L | 59 | 4 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 4 |
| 69 | Main | Detectives Open Area | Rec 2'x4' Troffer | F32T82L | 59 | 16 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 16 |
| 70 | Main | OL Office | Rec 2'x4' Troffer | F32T82L | 59 | 2 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 2 |
| 71 | Main | Office | Rec 2'x4' Troffer | F32T82L | 59 | 3 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 3 |
| 72 | Main | Interview Rm 1 | SM 1'X4' | F32T82L | 59 | 1 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 1 |
| 73 | Main | Interview Rm 2 | SM 1'X4' | F32T82L | 59 | 1 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 1 |
| Annual | Total | | | | | 366 | | | | | 366 |

| Cou | inty of S | an Bernardino: B | ob Burke JOS | Govt. Cen | ter: E | xteri | or Lig | hting | | | |
|------|-------------|--------------------|-----------------------|----------------|---------------|---------------|-------------------------|---|--|----------------|----------------|
| Gene | eral Inform | nation | Exi | sting Fixture | Data | | | | Proposed Fixture Data | | |
| # | Building | Area Served | Fixture Type | Lighting (Pre) | Pre- Watts | Pre # Fixt | Lamps per Fixture | Lighting (Post) | Recommended Make: Model # | Post- Watts | Post # Fixt |
| 74 | Main | Exterior Area | Can Rec 6" | CFM 32W 1L | 36.8 | 4 | 1 | LED 13-Watt 6" Downlight Retrofit | ESPEN: VEKR6D/8T/13W-10V | 13 | 4 |
| 75 | Main | Solar Parking Area | 4' Vapor Proof | F32T82L | 59 | 24 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 24 |
| 76 | Main | Exterior Area | Wallpack Full Cut-Off | MH 70W | 95 | 16 | 1 | LED 28-Watt Full-Cutoff Wallpack | NaturaLED: FXCWP60SW/CCT3/BZ-PHO | 28 | 16 |
| 77 | Main | Parking Area | 20' Pole Arm Area | MH 150W | 190 | 18 | 1 | LED 50-Watt Pole Arm Area | NaturaLED: FXSAL75SW/8CCT3/BZ/T3 + P10453 MT-AL/PM6/BZ | 50 | 18 |
| 78 | Main | Exterior Area | 15' Poletop | MH 150W | 190 | 3 | 1 | LED 34-Watt Pole Top | NaturaLED: FX15PST34SW/8CCT3/BK | 34 | 3 |
| 79 | Main | Exterior Area | 15' Pole Arm Area | HPS 400W | 465 | 2 | 1 | LED 150-Watt Pole Slip-Fit Knuckle Area | NaturaLED: FXCAL150/850/BZ/3S + P10366 MT-CAL/SF/BZ | 150 | 2 |

Detailed Lighting Inventory - San Bernardino County - Coroner



| | Gene | eral Information | Existi | ng Fixtur | e Data | 1 | | Prop | osed Fixture Data | | |
|------|----------|-----------------------------------|-------------------------|-------------------|---------------|---------------|-------------------------|------------------------------------|--|----------------|----|
| # | Building | Room/Area | Fixture Type | Lighting (Pre) | Pre- Watts | Pre # Fixt | Lamps per Fixture | Lighting (Post) | Recommended Make: Model# | Post- Watts | |
| 1 1 | Main | Conference Rm | Pendant | CFL 13W 1L | 13 | 4 | 1 | (1) LED 5-Watt A Lamp | NaturaLED: LED5A19/45L/950 | 5 | 4 |
| 2 1 | Main | Office Entrance | Rec. 2'X2' Troffer | F17T84L | 61 | 4 | 4 | (4) LED 9-Watt 2' Tubes & Ballast | ESPEN: L24T8/840/12P-EB , VE2P32MVHIPE | 40 | 4 |
| 3 1 | Main | Printer Rm | Rec. 2'X2' Troffer | F17T84L | 61 | 3 | 4 | (4) LED 9-Watt 2' Tubes & Ballast | ESPEN: L24T8/840/12P-EB , VE2P32MVHIPE | 40 | 3 |
| 4 1 | Main | Front Desk | Surface Mount 4' | F32T81L | 31 | 17 | 1 | (1) LED 12-Watt 4' Tube & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 12 | 17 |
| 5 1 | Main | Storage (1) | Surface Mount 4' | F32T81L | 31 | 1 | 1 | (1) LED 12-Watt 4' Tube & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 12 | 1 |
| 6 1 | Main | Central Office | Rec. 1'X4' | F32T81L | 31 | 8 | 1 | (1) LED 12-Watt 4' Tube & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 12 | 8 |
| 7 1 | Main | Storage (2) | Surface Mount 4' | F32T81L | 31 | 1 | 1 | (1) LED 12-Watt 4' Tube & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 12 | 1 |
| 8 1 | Main | Big Office | Uplight | F32T81L | 31 | 18 | 1 | (1) LED 12-Watt 4' Tube & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 12 | 18 |
| 9 1 | Main | Conference Rm | Rec. 1'X4' | F32T81L | 31 | 20 | 1 | (1) LED 12-Watt 4' Tube & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 12 | 20 |
| 10 | Main | Custodial | Surface Mount 4' | F32T81L | 31 | 1 | 1 | (1) LED 12-Watt 4' Tube & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 12 | 1 |
| 11 | Main | Property Rm | Surface Mount 4' | F32T82L | 59 | 2 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 2 |
| 12 | Main | Men's RR | Surface Mount 4' | F32T82L | 59 | 2 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 2 |
| 13 | Main | Women's RR | Surface Mount 4' | F32T82L | 59 | 2 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 2 |
| 14 | Main | Exam Rm Hallways | Surface Mount 2'X4' Box | F32T82L | 59 | 7 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 7 |
| 15 | Main | Exam Rm | Rec. 1'X4' | F32T82L | 59 | 38 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 38 |
| 16 | Main | Supervisor Office | Rec. 2'X4' Troffer | F32T82L | 59 | 2 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 2 |
| 17 | Main | Refrigerator | Surface Mount 4' | F32T82L | 59 | 8 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 8 |
| 18 | Main | Doctors Hallway | Rec. 2'X4' Troffer | F32T82L | 59 | 7 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 7 |
| 19 1 | Main | Break Rm | Rec. 2'X4' Troffer | F32T82L | 59 | 4 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 4 |
| 20 | Main | Office 1 | Rec. 2'X4' Troffer | F32T82L | 59 | 2 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 2 |
| 21 | Main | Conference Rm | Rec. 2'X4' Troffer | F32T82L | 59 | 12 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 12 |
| 22 | Main | Exam Doctor Offices (x4) | Rec. 2'X4' Troffer | F32T82L | 59 | 8 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 8 |
| 23 | Main | Co-Work Space | Rec. 2'X4' Troffer | F32T82L | 59 | 3 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 3 |
| 24 | Main | Coroner Office | Rec. 2'X4' Troffer | F32T82L | 59 | 3 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 3 |
| 25 1 | Main | Forensic Pathologist Offices (x2) | Rec. 2'X4' Troffer | F32T82L | 59 | 4 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 4 |
| 26 | Main | Open Office | Rec. 2'X4' Troffer | F32T83L | 89 | 8 | 3 | (3) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE3P32MVHIPE | 36 | 8 |
| 27 | Main | Offices (x3) | Rec. 2'X4' Troffer | F32T83L | 89 | 6 | 3 | (3) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE3P32MVHIPE | 36 | 6 |
| 28 1 | Main | Open Area 2 | Rec. 2'X4' Troffer | F32T83L | 89 | 44 | 3 | (3) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE3P32MVHIPE | 36 | 44 |
| 29 1 | Main | Offices (x4) | Rec. 2'X4' Troffer | F32T83L | 89 | 8 | 3 | (3) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE3P32MVHIPE | 36 | 8 |
| 30 1 | Main | Break Rm | Rec. 2'X4' Troffer | F32T83L | 89 | 4 | 3 | (3) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE3P32MVHIPE | 36 | 4 |
| 31 / | Main | LT. Office | Rec. 2'X4' Troffer | F32T83L | 89 | 4 | 3 | (3) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE3P32MVHIPE | 36 | 4 |
| 32 1 | Main | Exam Rm Side | Rec. 2'X4' Troffer | F32T83L | 89 | 4 | 3 | (3) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE3P32MVHIPE | 36 | 4 |

Detailed Lighting Inventory - San Bernardino County - Coroner



| Cou | nty of S | San Bernardino: Cord | oner: Interior Lig | hting | | | | | | | |
|-----|----------|----------------------|-------------------------|-------------------|---------------|---------------|-------------------------|------------------------------------|---------------------------------------|----------------|--------|
| | Gene | eral Information | Existi | ng Fixtur | e Data | l | | Propo | sed Fixture Data | | |
| # | Building | Room/Area | Fixture Type | Lighting (Pre) | Pre- Watts | Pre # Fixt | Lamps per Fixture | Lighting (Post) | Recommended Make: Model # | Post- Watts | Post # |
| 33 | Main | Entrance | Rec. 2'X4' Troffer | F32T83L | 89 | 2 | 3 | (3) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE3P32MVHIPE | 36 | 2 |
| 34 | Main | File Rm | Rec. 2'X4' Troffer | F32T83L | 89 | 2 | 3 | (3) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE3P32MVHIPE | 36 | 2 |
| 35 | Main | Exam Rm | Rec. 2'X4' Troffer | F32T83L | 89 | 7 | 3 | (3) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE3P32MVHIPE | 36 | 7 |
| 36 | Main | Exam Rm Hallways | Surface Mount 2'X4' Box | F32T83L | 89 | 10 | 3 | (3) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE3P32MVHIPE | 36 | 10 |
| 37 | Main | X-Ray Rm | Rec. 2'X4' Troffer | F32T83L | 89 | 2 | 3 | (3) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE3P32MVHIPE | 36 | 2 |
| 38 | Main | Office/Storage | Rec. 2'X4' Troffer | F32T83L | 89 | 4 | 3 | (3) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE3P32MVHIPE | 36 | 4 |
| 39 | Main | Office | Rec. 2'X4' Troffer | F32T83L | 89 | 6 | 3 | (3) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE3P32MVHIPE | 36 | 6 |
| 40 | Main | Hallway | Rec. 2'X4' Troffer | F32T83L | 89 | 3 | 3 | (3) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE3P32MVHIPE | 36 | 3 |

| Cou | inty of S | San Bernardino: Cord | ner: Exterior Li | ghting | | | | | | | |
|------|-------------|----------------------|------------------|-------------------|---------------|---------------|-------------------------|--|--|----------------|----------------|
| Gene | eral Inform | mation | Existi | ng Fixtur | e Data | l | | Propo | sed Fixture Data | | |
| # | Building | Area Served | Fixture Type | Lighting (Pre) | Pre- Watts | Pre # Fixt | Lamps per Fixture | Lighting (Post) | Recommended Make: Model # | Post- Watts | Post # Fixt |
| 41 | Main | Exterior Area | Sconce | MH 70W | 95 | 4 | 1 | (1) LED 18-Watt Retrofit Lamp Ballast Bypass | Keystone: KT-LED27PSHID-EX39-840-D /G4 | 18 | 4 |
| 42 | Main | Parking Area | 15' Pole Top | MH 150W | 190 | 18 | 1 | LED 34-Watt Pole Top | NaturaLED: FX15PST34SW/8CCT3/BK | 34 | 18 |

Detailed Lighting Inventory - San Bernardino County - County Building



| | Gener | al Information | Е | xisting Fixture | Data | | | F | Proposed Fixture Data | | |
|----|----------|------------------------------|---------------------|------------------|---------------|---------------|-------------------------|------------------------------------|--|----------------|--------|
| # | Building | Room/Area | Fixture Type | Lighting (Pre) | Pre- Watts | Pre # Fixt | Lamps per Fixture | Lighting (Post) | Recommended Make: Model # | Post- Watts | Post # |
| 1 | Main | Elevator 1 | Recessed | Halogen 50W MR16 | 60 | 6 | 1 | (1) LED 6-Watt MR16 Lamp | NaturaLED: LED6MR16/50L/FL/830 | 6 | 6 |
| 2 | Main | Elevator 2 | Recessed | Halogen 50W MR16 | 60 | 6 | 1 | (1) LED 6-Watt MR16 Lamp | NaturaLED: LED6MR16/50L/FL/830 | 6 | 6 |
| 3 | Main | Electrical Rm | Surface Mount 2'X4' | F32T82L | 59 | 2 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 2 |
| 4 | Main | 2nd Flr Open Office Area (1) | Rec 2'X4' Troffer | F32T83L | 89 | 28 | 3 | (3) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE3P32MVHIPE | 36 | 28 |
| 5 | Main | 2nd Flr Open Office Area (2) | Rec 2'X4' Troffer | F32T83L | 89 | 30 | 3 | (3) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE3P32MVHIPE | 36 | 30 |
| 6 | Main | Office 1 | Rec 2'X4' Troffer | F32T83L | 89 | 2 | 3 | (3) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE3P32MVHIPE | 36 | 2 |
| 7 | Main | Office 2 | Rec 2'X4' Troffer | F32T83L | 89 | 2 | 3 | (3) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE3P32MVHIPE | 36 | 2 |
| 8 | Main | Office 3 | Rec 2'X4' Troffer | F32T83L | 89 | 2 | 3 | (3) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE3P32MVHIPE | 36 | 2 |
| 9 | Main | Office 4 | Rec 2'X4' Troffer | F32T83L | 89 | 1 | 3 | (3) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE3P32MVHIPE | 36 | 1 |
| 10 | Main | Storage 1 | Rec 2'X4' Troffer | F32T83L | 89 | 1 | 3 | (3) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE3P32MVHIPE | 36 | 1 |
| 11 | Main | Office 5 | Rec 2'X4' Troffer | F32T83L | 89 | 2 | 3 | (3) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE3P32MVHIPE | 36 | 2 |
| 12 | Main | Office 6 | Rec 2'X4' Troffer | F32T83L | 89 | 2 | 3 | (3) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE3P32MVHIPE | 36 | 2 |
| 13 | Main | Office 7 | Rec 2'X4' Troffer | F32T83L | 89 | 2 | 3 | (3) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE3P32MVHIPE | 36 | 2 |
| 14 | Main | Office 8 | Rec 2'X4' Troffer | F32T83L | 89 | 2 | 3 | (3) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE3P32MVHIPE | 36 | 2 |
| 15 | Main | Office 9 | Rec 2'X4' Troffer | F32T83L | 89 | 2 | 3 | (3) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE3P32MVHIPE | 36 | 2 |
| 16 | Main | Office 10 | Rec 2'X4' Troffer | F32T83L | 89 | 2 | 3 | (3) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE3P32MVHIPE | 36 | 2 |
| 17 | Main | Office 11 | Rec 2'X4' Troffer | F32T83L | 89 | 1 | 3 | (3) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE3P32MVHIPE | 36 | 1 |
| 18 | Main | Office 12 | Rec 2'X4' Troffer | F32T83L | 89 | 1 | 3 | (3) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE3P32MVHIPE | 36 | 1 |
| 19 | Main | Office 13 | Rec 2'X4' Troffer | F32T83L | 89 | 2 | 3 | (3) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE3P32MVHIPE | 36 | 2 |
| 20 | Main | Office 14 | Rec 2'X4' Troffer | F32T83L | 89 | 2 | 3 | (3) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE3P32MVHIPE | 36 | 2 |
| 21 | Main | Office 15 | Rec 2'X4' Troffer | F32T83L | 89 | 2 | 3 | (3) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE3P32MVHIPE | 36 | 2 |
| 22 | Main | Office 16 | Rec 2'X4' Troffer | F32T83L | 89 | 2 | 3 | (3) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE3P32MVHIPE | 36 | 2 |
| 23 | Main | Office 17 | Rec 2'X4' Troffer | F32T83L | 89 | 2 | 3 | (3) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE3P32MVHIPE | 36 | 2 |
| 24 | Main | Office 18 | Rec 2'X4' Troffer | F32T83L | 89 | 2 | 3 | (3) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE3P32MVHIPE | 36 | 2 |
| 25 | Main | Break Rm 1 | Rec 2'X4' Troffer | F32T83L | 89 | 2 | 3 | (3) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE3P32MVHIPE | 36 | 2 |
| 26 | Main | Break Rm 2 | Rec 2'X4' Troffer | F32T83L | 89 | 2 | 3 | (3) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE3P32MVHIPE | 36 | 2 |
| 27 | Main | 2nd Flr Open Office Area | Rec 2'X2' Troffer | FU31T8/6 2L | 59 | 2 | 2 | (2) LED 15-Watt 2' U-Tube & Driver | ESPEN: LB48T8U6/850/13P-AB, VE2P32MVHIPE | 30 | 2 |

Detailed Lighting Inventory - San Bernardino County - Department of Public Health



| | Gene | ral Information | Ex | isting Fixture | e Data | | | Pro | posed Fixture Data | | |
|----|----------|---------------------------|-------------------|----------------|---------------|---------------|-------------------------|--|--|----------------|----|
| # | Building | Room/Area | Fixture Type | Lighting (Pre) | Pre- Watts | Pre # Fixt | Lamps per Fixture | Lighting (Post) | Recommended Make: Model # | Post- Watts | |
| 1 | Main | 1st Flr: Hall/Entry | Sconce | CFT 13W 2L | 31 | 4 | 2 | (2) LED 6-Watt 2-pin Lamp Ballast Bypass | Keystone: KT-LED62P-O-840-D | 12 | 4 |
| 2 | Main | Public Health Hallways | Can Rec 6" | CFT 26W 1L | 33 | 40 | 1 | LED 9-Watt 6" Downlight Retrofit | ESPEN: VEKR6D/8T/13W-10V | 9 | 40 |
| 3 | Main | Break Rm (1) | Can Rec 6" | CFT 26W 1L | 33 | 18 | 1 | LED 9-Watt 6" Downlight Retrofit | ESPEN: VEKR6D/8T/13W-10V | 9 | 18 |
| 4 | Main | Conference Rm | Can Rec 6" | CFT 26W 1L | 33 | 5 | 1 | LED 9-Watt 6" Downlight Retrofit | ESPEN: VEKR6D/8T/13W-10V | 9 | 5 |
| 5 | Main | 20-36 | Can Rec 6" | CFT 26W 1L | 33 | 6 | 1 | LED 9-Watt 6" Downlight Retrofit | ESPEN: VEKR6D/8T/13W-10V | 9 | 6 |
| 6 | Main | 3rd Flr: Hallways | Can Rec 6" | CFT 26W 1L | 33 | 8 | 1 | LED 9-Watt 6" Downlight Retrofit | ESPEN: VEKR6D/8T/13W-10V | 9 | 8 |
| 7 | Main | Hallways (1) | Can Rec 6" | CFT 26W 1L | 33 | 8 | 1 | LED 9-Watt 6" Downlight Retrofit | ESPEN: VEKR6D/8T/13W-10V | 9 | 8 |
| 8 | Main | Hallways (2) | Can Rec 6" | CFT 26W 1L | 33 | 5 | 1 | LED 9-Watt 6" Downlight Retrofit | ESPEN: VEKR6D/8T/13W-10V | 9 | 5 |
| 9 | Main | CDS Open | Can Rec 6" | CFT 26W 1L | 33 | 12 | 1 | LED 9-Watt 6" Downlight Retrofit | ESPEN: VEKR6D/8T/13W-10V | 9 | 12 |
| 10 | Main | 4-0-20 (a) | Can Rec 6" | CFT 26W 1L | 33 | 4 | 1 | LED 9-Watt 6" Downlight Retrofit | ESPEN: VEKR6D/8T/13W-10V | 9 | 4 |
| 11 | Main | 4-0-20 (b) | Can Rec 6" | CFT 26W 1L | 33 | 4 | 1 | LED 9-Watt 6" Downlight Retrofit | ESPEN: VEKR6D/8T/13W-10V | 9 | 4 |
| 12 | Main | 1st Flr: Hall/Entry | Can Rec 8" | CFM 32W 2L | 73.6 | 23 | 2 | LED 17-Watt 8" Downlight Retrofit | ESPEN: VEKR8D/8T/17W-10V | 17 | 23 |
| 13 | Main | Suite 325 | Rec 2'x2' Troffer | F17T82L | 33 | 4 | 2 | (2) LED 9-Watt 2' Tubes & Ballast | ESPEN: L24T8/840/12P-EB , VE2P32MVHIPE | 20 | 4 |
| 14 | Main | 3-0-9 | Rec 2'x2' Troffer | F17T82L | 33 | 6 | 2 | (2) LED 9-Watt 2' Tubes & Ballast | ESPEN: L24T8/840/12P-EB , VE2P32MVHIPE | 20 | 6 |
| 15 | Main | Open Area | Rec 2'x2' Troffer | F17T82L | 33 | 34 | 2 | (2) LED 9-Watt 2' Tubes & Ballast | ESPEN: L24T8/840/12P-EB, VE2P32MVHIPE | 20 | 34 |
| 16 | Main | 3-0-10 | Rec 2'x2' Troffer | F17T82L | 33 | 3 | 2 | (2) LED 9-Watt 2' Tubes & Ballast | ESPEN: L24T8/840/12P-EB , VE2P32MVHIPE | 20 | 3 |
| 17 | Main | Break Rm | Rec 2'x2' Troffer | F17T82L | 33 | 4 | 2 | (2) LED 9-Watt 2' Tubes & Ballast | ESPEN: L24T8/840/12P-EB , VE2P32MVHIPE | 20 | 4 |
| 18 | Main | Comm Rm | Rec 2'x2' Troffer | F17T82L | 33 | 6 | 2 | (2) LED 9-Watt 2' Tubes & Ballast | ESPEN: L24T8/840/12P-EB , VE2P32MVHIPE | 20 | 6 |
| 19 | Main | Office (6x Combined) | Rec 2'x2' Troffer | F17T82L | 33 | 12 | 2 | (2) LED 9-Watt 2' Tubes & Ballast | ESPEN: L24T8/840/12P-EB , VE2P32MVHIPE | 20 | 12 |
| 20 | Main | Office (5x Combined) | Rec 2'x2' Troffer | F17T82L | 33 | 5 | 2 | (2) LED 9-Watt 2' Tubes & Ballast | ESPEN: L24T8/840/12P-EB , VE2P32MVHIPE | 20 | 5 |
| 21 | Main | Office (3x Combined) | Rec 2'x2' Troffer | F17T82L | 33 | 6 | 2 | (2) LED 9-Watt 2' Tubes & Ballast | ESPEN: L24T8/840/12P-EB, VE2P32MVHIPE | 20 | 6 |
| 22 | Main | 1st Flr: Hall/Entry | Strip 4' | F32T81L | 31 | 16 | 1 | (1) LED 12-Watt 4' Tube & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 12 | 16 |
| 23 | Main | 2nd Flr: Elevator Landing | Strip 4' | F32T81L | 31 | 16 | 1 | (1) LED 12-Watt 4' Tube & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 12 | 16 |
| 24 | Main | 4th Fir: Hallways | Strip 4' | F32T81L | 31 | 16 | 1 | (1) LED 12-Watt 4' Tube & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 12 | 16 |
| 25 | Main | Stairwell | Rec 2'x4' Troffer | F32T82L | 59 | 10 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 10 |
| 26 | Main | Public Health Hallways | Rec 2'x4' Troffer | F32T82L | 59 | 87 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 87 |
| 27 | Main | Office (5x Combined) | Rec 2'x4' Troffer | F32T82L | 59 | 10 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 10 |
| 28 | Main | Office (2x Combined) | Rec 2'x4' Troffer | F32T82L | 59 | 6 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 6 |
| 29 | Main | Office (1) | Rec 2'x4' Troffer | F32T82L | 59 | 4 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 4 |
| 30 | Main | Conference Rm | Rec 2'x4' Troffer | F32T82L | 59 | 4 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 4 |
| 31 | Main | Office (7x Combined) | Rec 2'x4' Troffer | F32T82L | 59 | 14 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 14 |
| 32 | Main | Office (10x Combined) | Rec 2'x4' Troffer | F32T82L | 59 | 20 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 20 |

Detailed Lighting Inventory - San Bernardino County - Department of Public Health



| Cou | nty of S | an Bernardino: De | partment of Pu | ublic Healt | h: Int | terior | Light | ing | | | |
|-----|----------|------------------------------|------------------------|----------------|---------------|---------------|-------------------------|------------------------------------|--|----------------|----|
| | Gene | ral Information | Exi | sting Fixture | Data | | | Pr | oposed Fixture Data | | |
| # | Building | Room/Area | Fixture Type | Lighting (Pre) | Pre- Watts | Pre # Fixt | Lamps per Fixture | Lighting (Post) | Recommended Make: Model # | Post- Watts | |
| 33 | Main | Office (2) | Rec 2'x4' Troffer | F32T82L | 59 | 3 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 3 |
| 34 | Main | Storage | Rec 2'x4' Troffer | F32T82L | 59 | 2 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 2 |
| 35 | Main | Tech. Center | Rec 2'x4' Troffer | F32T82L | 59 | 6 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 6 |
| 36 | Main | 20-36 | Rec 2'x4' Troffer | F32T82L | 59 | 3 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 3 |
| 37 | Main | Break Rm (2) | Rec 2'x4' Troffer | F32T82L | 59 | 6 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 6 |
| 38 | Main | Office (2x Combined) (a) | Rec 2'x4' Troffer | F32T82L | 59 | 6 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 6 |
| 39 | Main | Office (13x Combined) | Rec 2'x4' Troffer | F32T82L | 59 | 26 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 26 |
| 40 | Main | Mail Rm | Rec 2'x4' Troffer | F32T82L | 59 | 1 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 1 |
| 41 | Main | Comm Rm | Rec 2'x4' Troffer | F32T82L | 59 | 3 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 3 |
| 42 | Main | Office | Rec 2'x4' Troffer | F32T82L | 59 | 1 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 1 |
| 43 | Main | Office | Rec 2'X4' Troffer D/ID | F32T82L | 59 | 1 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 1 |
| 44 | Main | 2-0-53 | Rec 2'X4' Troffer D/ID | F32T82L | 59 | 1 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 1 |
| 45 | Main | Break Rm (3) | Rec 2'X4' Troffer D/ID | F32T82L | 59 | 2 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 2 |
| 46 | Main | 2-0-52 | Rec 2'X4' Troffer D/ID | F32T82L | 59 | 6 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 6 |
| 47 | Main | 2-0-51 | Rec 2'x4' Troffer | F32T82L | 59 | 6 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 6 |
| 48 | Main | 2-0-47 | Rec 2'x4' Troffer | F32T82L | 59 | 6 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 6 |
| 49 | Main | 2-0-50 | Rec 2'x4' Troffer | F32T82L | 59 | 6 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 6 |
| 50 | Main | 2-0-49 | Rec 2'x4' Troffer | F32T82L | 59 | 8 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 8 |
| 51 | Main | 2-0-46 | Rec 2'x4' Troffer | F32T82L | 59 | 2 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 2 |
| 52 | Main | 2-0-45 | Rec 2'x4' Troffer | F32T82L | 59 | 2 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 2 |
| 53 | Main | 3rd Flr: Hallways | Strip 4' | F32T82L | 59 | 16 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 16 |
| 54 | Main | 4-0-6 | Rec 2'x4' Troffer | F32T82L | 59 | 6 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 6 |
| 55 | Main | Break Rm | Rec 2'x4' Troffer | F32T82L | 59 | 6 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 6 |
| 56 | Main | Open Area | Rec 2'x4' Troffer | F32T82L | 59 | 44 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 44 |
| 57 | Main | 4-0-20 | Rec 2'x4' Troffer | F32T82L | 59 | 6 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 6 |
| 58 | Main | Office (12x Combined) | Rec 2'x4' Troffer | F32T82L | 59 | 24 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 24 |
| 59 | Main | 4-0-23 Office (10x Combined) | Rec 2'x4' Troffer | F32T82L | 59 | 20 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 20 |
| 60 | Main | 4-0-23 | Rec 2'x4' Troffer | F32T82L | 59 | 3 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 3 |
| 61 | Main | Public Health Hallways | Rec 2'x2' Troffer | FU31T8/6 2L | 59 | 16 | 2 | (2) LED 15-Watt 2' U-Tube & Driver | ESPEN: LB48T8U6/850/13P-AB, VE2P32MVHIPE | 30 | 16 |
| 62 | Main | Conference Rm | Rec 2'x2' Troffer | FU31T8/6 2L | 59 | 10 | 2 | (2) LED 15-Watt 2' U-Tube & Driver | ESPEN: LB48T8U6/850/13P-AB, VE2P32MVHIPE | 30 | 10 |
| 63 | Main | Office (3) | Rec 2'x2' Troffer | FU31T8/6 2L | 59 | 1 | 2 | (2) LED 15-Watt 2' U-Tube & Driver | ESPEN: LB48T8U6/850/13P-AB, VE2P32MVHIPE | 30 | 1 |
| 64 | Main | Office | Rec 2'x2' Troffer | FU31T8/6 2L | 59 | 1 | 2 | (2) LED 15-Watt 2' U-Tube & Driver | ESPEN: LB48T8U6/850/13P-AB, VE2P32MVHIPE | 30 | 1 |
| 65 | Main | 3rd Flr: Hallway | Rec 2'x2' Troffer | FU31T8/6 2L | 59 | 27 | 2 | (2) LED 15-Watt 2' U-Tube & Driver | ESPEN: LB48T8U6/850/13P-AB, VE2P32MVHIPE | 30 | 27 |
| 66 | Main | Hallways | Rec 2'x2' Troffer | FU31T8/6 2L | 59 | 30 | 2 | (2) LED 15-Watt 2' U-Tube & Driver | ESPEN: LB48T8U6/850/13P-AB, VE2P32MVHIPE | 30 | 30 |
| 67 | Main | Open Area | Rec 2'x2' Troffer | FU31T8/6 2L | 59 | 22 | 2 | (2) LED 15-Watt 2' U-Tube & Driver | ESPEN: LB48T8U6/850/13P-AB, VE2P32MVHIPE | 30 | 22 |
| 68 | Main | 2nd Fir: Hallways | Rec 2'x2' Troffer | FU31T8/6 2L | 59 | 17 | 2 | (2) LED 15-Watt 2' U-Tube & Driver | ESPEN: LB48T8U6/850/13P-AB, VE2P32MVHIPE | 30 | 17 |

ALLIANCE PURE SOLUTIONS

Detailed Lighting Inventory - San Bernardino County - High Desert Government Center

| | | nformation | no: High Desert Governmer | Fixture Data | | | 9 | | Proposed Fixture Data | | |
|----|----------|--------------------|---|------------------|---------------|---------------|-------------------------|---|--|----------------|-----|
| # | Building | Room/Area | Fixture Type | Lighting (Pre) | Pre- Watts | Pre # Fixt | Lamps per Fixture | Lighting (Post) | Recommended Make: Model # | Post- Watts | |
| 1 | Main | All Areas Combined | Gimbal Rec. Downlight | MH 39W PAR30 1L | 50 | 11 | 1 | (1) LED 10-Watt PAR30 Lamp | Keystone: KT-LED10PAR30-F-840 | 10 | 11 |
| 2 | Main | All Areas Combined | Can Rec. 6" (Type 7) | CFM 32W 1L | 36.8 | 10 | 1 | LED 13-Watt 6" Downlight Retrofit | ESPEN: VEKR6D/8T/13W-10V | 13 | 10 |
| 3 | Main | All Areas Combined | Can Rec. 6" (Type 7d) | CFM 32W 1L | 36.8 | 3 | 1 | LED 13-Watt 6" Downlight Retrofit | ESPEN: VEKR6D/8T/13W-10V | 13 | 3 |
| 4 | Main | All Areas Combined | Can Rec. 6" (Type 7f) | CFM 32W 1L | 36.8 | 5 | 1 | LED 13-Watt 6" Downlight Retrofit | ESPEN: VEKR6D/8T/13W-10V | 13 | 5 |
| 5 | Main | All Areas Combined | Gimbal Can Rec. 3" | Halogen 50W MR16 | 60 | 7 | 1 | (1) LED 6-Watt MR16 Lamp | NaturaLED: LED6MR16/50L/FL/830 | 6 | 7 |
| 6 | Main | All Areas Combined | Recessed Downlight 4.5" Square (Type 18) | CFM 32W 1L | 36.8 | 76 | 1 | (1) LED 16-Watt 2-pin Lamp Ballast Bypass | Keystone: KT-LED162P-H-840-D-DP | 16 | 76 |
| 7 | Main | All Areas Combined | Recessed Vertical Wallwash 6" (Type 19d) | CFM 32W 1L | 36.8 | 14 | 1 | (1) LED 16-Watt 2-pin Lamp Ballast Bypass | Keystone: KT-LED162P-H-840-D-DP | 16 | 14 |
| 8 | Main | All Areas Combined | Recessed Vertical Wallwash 6" (Type 19) | CFM 32W 1L | 36.8 | 26 | 1 | (1) LED 16-Watt 2-pin Lamp Ballast Bypass | Keystone: KT-LED162P-H-840-D-DP | 16 | 26 |
| 9 | Main | All Areas Combined | Recessed Downlight 4.5" Square (Type 18f) | CFM 32W 1L | 36.8 | 2 | 1 | (1) LED 16-Watt 2-pin Lamp Ballast Bypass | Keystone: KT-LED162P-H-840-D-DP | 16 | 2 |
| 10 | Main | All Areas Combined | Rec. 2'x2' Troffer D/ID (Type 2) | F17T82L | 33 | 63 | 2 | (2) LED 9-Watt 2' Tubes & Ballast | ESPEN: L24T8/840/12P-EB , VE2P32MVHIPE | 20 | 63 |
| 11 | Main | All Areas Combined | Rec. 2'x2' Troffer D/ID (Type 2f) | F17T82L | 33 | 32 | 2 | (2) LED 9-Watt 2' Tubes & Ballast | ESPEN: L24T8/840/12P-EB , VE2P32MVHIPE | 20 | 32 |
| 12 | Main | All Areas Combined | Rec. 2'x2' Troffer D/ID | F17T83L | 47 | 8 | 3 | (3) LED 9-Watt 2' Tubes & Ballast | ESPEN: L24T8/840/12P-EB , VE3P32MVHIPE | 30 | 8 |
| 13 | Main | All Areas Combined | Wall Mount D/ID 3' | F25T82L | 46 | 25 | 2 | (2) LED 12-Watt 3' Tubes & Ballast | ESPEN: L36T8/840/12P-EB 36, VEL30BN-2C-10V TAA | 24 | 25 |
| 14 | Main | All Areas Combined | Staggered Strip 3' | F25T82L | 46 | 2 | 2 | (2) LED 12-Watt 3' Tubes & Ballast | ESPEN: L36T8/840/12P-EB 36, VEL30BN-2C-10V TAA | 24 | 2 |
| 15 | Main | All Areas Combined | Surface Mount 8' D/ID | F28T52L | 64 | 1 | 2 | (2) LED 13-Watt 4' T5 Tubes & Ballast | ESPEN: L48T5HE/850/13G-EB-AC, VE228MVHRP | 26 | 1 |
| 16 | Main | All Areas Combined | Wall Mount 8' | F28T54L | 128 | 4 | 4 | (4) LED 13-Watt 4' T5 Tubes & Ballast | ESPEN: L48T5HE/850/13G-EB-AC, VE228MVHRP | 52 | 4 |
| 17 | Main | All Areas Combined | Rec. 1'x4' Troffer D/ID (Type 3b) | F32T81L | 31 | 5 | 1 | (1) LED 12-Watt 4' Tube & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 12 | 5 |
| 18 | Main | All Areas Combined | Rec. 1'x4' Troffer D/ID (Type 3f) | F32T81L | 31 | 4 | 1 | (1) LED 12-Watt 4' Tube & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 12 | 4 |
| 19 | Main | All Areas Combined | Under Cabinet | F32T81L | 31 | 18 | 1 | (1) LED 12-Watt 4' Tube & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 12 | 18 |
| 20 | Main | All Areas Combined | Recessed Wall Wash 4' (Type 16) | F32T81L | 31 | 36 | 1 | (1) LED 12-Watt 4' Tube & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 12 | 36 |
| 21 | Main | All Areas Combined | Recessed Wall Wash 4' (Type 17f) | F32T81L | 31 | 10 | 1 | (1) LED 12-Watt 4' Tube & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 12 | 10 |
| 22 | Main | All Areas Combined | Staggered Strip 4' (Type 20) | F32T81L | 31 | 8 | 1 | (1) LED 12-Watt 4' Tube & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 12 | 8 |
| 23 | Main | All Areas Combined | Staggered Strip 4' (Type 20f) | F32T81L | 31 | 8 | 1 | (1) LED 12-Watt 4' Tube & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 12 | 8 |
| 24 | Main | All Areas Combined | Recessed Wall Wash 4' (Type 16f) | F32T81L | 31 | 24 | 1 | (1) LED 12-Watt 4' Tube & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 12 | 24 |
| 25 | Main | All Areas Combined | Recessed Cove 4' | F32T81L | 31 | 21 | 1 | (1) LED 12-Watt 4' Tube & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 12 | 21 |
| 26 | Solar | Exterior Solar Rm | Strip 4' | F32T82L | 59 | 8 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 8 |
| 27 | Main | All Areas Combined | Rec. 2'x4' Troffer D/ID (Type 1) | F32T82L | 59 | 32 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 32 |
| 28 | Main | All Areas Combined | Rec. 2'x4' Troffer D/ID (Type 1b) | F32T82L | 59 | 191 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 191 |
| 29 | Main | All Areas Combined | Rec. 2'x4' Troffer D/ID (Type 1f) | F32T82L | 59 | 212 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 212 |
| 30 | Main | All Areas Combined | Strip 4' | F32T82L | 59 | 24 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 24 |
| 31 | Main | All Areas Combined | Wall Mount D/ID 4' | F32T82L | 59 | 6 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 6 |
| 32 | Main | All Areas Combined | Recessed 4' (Type 15) | F32T82L | 59 | 14 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 14 |
| 33 | Main | All Areas Combined | Recessed 4' (Type 15f) | F32T82L | 59 | 19 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 19 |
| 34 | Main | All Areas Combined | Staggered Strip 4' | F32T82L | 59 | 8 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 8 |

Detailed Lighting Inventory - San Bernardino County - High Desert Government Center



| Cou | inty of S | an Bernardin | o: High Desert Governmen | t Center: Ext | erior | Ligh | ting | | | | |
|-----|-------------|---------------|--------------------------|----------------|---------------|-------|-------------------------|----------------------------------|--|----------------|----------------|
| Gen | eral Inforr | mation | Existing F | ixture Data | | | | | Proposed Fixture Data | | |
| # | Building | Area Served | Fixture Type | Lighting (Pre) | Pre- Watts | Pre # | Lamps per Fixture | Lighting (Post) | Recommended Make: Model # | Post- Watts | Post # Fixt |
| 36 | Main | Parking Area | 25' Pole Arm Area | MH 210W | 230 | 27 | 1 | LED 75-Watt Pole Arm Area | NaturaLED: FXSAL75SW/8CCT3/BZ/T3 + P10453 MT-AL/PM6/BZ | 75 | 27 |
| 37 | Main | Exterior Area | 12' Pole Top | MH 100W | 128 | 26 | 1 | LED 28-Watt Pole Top | NaturaLED: FX15PST34SW/8CCT3/BK | 28 | 26 |
| 38 | Main | Exterior Area | Wall Pack Full-Cutoff | CFM 42W 1L | 48.3 | 5 | 1 | LED 15-Watt Full-Cutoff Wallpack | NaturaLED: LED-FXSWP15/850/DB | 15 | 5 |



Detailed Lighting Inventory - San Bernardino County - New Crime Lab Expansion

| Cou | inty of S | an Bernardino | o: New Crime Lab Expansion: Int | erior Lighting | 3 | | | | | | |
|-----|-----------|--------------------|--|----------------|---------------|---------------|-------------------------|---|---------------------------------------|----------------|--------|
| | General | Information | Existing Fixt | ure Data | | | | Prop | osed Fixture Data | | |
| # | Building | Room/Area | Fixture Type | Lighting (Pre) | Pre- Watts | Pre # Fixt | Lamps per Fixture | Lighting (Post) | Recommended Make: Model # | Post- Watts | Post # |
| 1 | Main | All Areas Combined | Industrial Pendant | CFM 32W 2L | 73.6 | 8 | 2 | (2) LED 16-Watt 2-pin Lamp Ballast Bypass | Keystone: KT-LED162P-H-840-D-DP | 32 | 8 |
| 2 | Main | All Areas Combined | 6" Square Downlight | CFM 42W 1L | 48.3 | 63 | 1 | (1) LED 16-Watt 2-pin Lamp Ballast Bypass | Keystone: KT-LED162P-H-840-D-DP | 16 | 63 |
| 3 | Main | All Areas Combined | 4"x4' Wall Mounted Direct/Indirect | F32T81L | 31 | 8 | 1 | (1) LED 12-Watt 4' Tube & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 12 | 8 |
| 4 | Main | All Areas Combined | 4"x4' Linear Recessed Slot Light | F32T82L | 59 | 27 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 27 |
| 5 | Main | All Areas Combined | 4"x6' Linear Direct/Indirect Pendant | F32T82L | 59 | 1 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 1 |
| 6 | Main | All Areas Combined | Rec 2'x4' Troffer | F32T82L | 59 | 10 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 10 |
| 7 | Main | All Areas Combined | Enclosed and Gasketed Surface Mounted Industrial | F32T82L | 59 | 39 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 39 |
| 8 | Main | All Areas Combined | 4"x12' Linear Direct/Indirect Pendant | F32T83L | 89 | 18 | 3 | (3) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE3P32MVHIPE | 36 | 18 |
| 9 | Main | All Areas Combined | Rec 2'x4' Troffer | F32T83L | 89 | 9 | 3 | (3) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE3P32MVHIPE | 36 | 9 |
| 10 | Main | All Areas Combined | Explosion-Proof Surface Mounted | F32T83L | 89 | 2 | 3 | (3) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE3P32MVHIPE | 36 | 2 |
| 11 | Main | All Areas Combined | Rec 2'x4' Troffer (A10) | F32T83L | 89 | 1 | 3 | (3) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE3P32MVHIPE | 36 | 1 |
| 12 | Main | All Areas Combined | 4"x4' Linear Recessed Slot Light | F54T5/HO 2L | 117 | 136 | 2 | (2) LED 25-Watt 4' T5 HO Tubes & Ballast | ESPEN: L48T5HO/850/24G-EB, VE254MVHRP | 50 | 136 |
| 13 | Main | All Areas Combined | 4"x2' Linear Recessed Slot Light | F54T5/HO 2L | 117 | 32 | 2 | (2) LED 25-Watt 4' T5 HO Tubes & Ballast | ESPEN: L48T5HO/850/24G-EB, VE254MVHRP | 50 | 32 |
| 14 | Main | All Areas Combined | 4"x8' Linear Direct/Indirect Pendant | F96T82L | 109 | 23 | 2 | (2) LED 24-Watt 8' Tubes & Ballast | ESPEN: L96T8/850/24G-EB, VE259MVHIP | 48 | 23 |



Detailed Lighting Inventory - San Bernardino County - New Hall of Records

| | Gene | ral Information | E | xisting Fixture I | Data | | | Pro | posed Fixture Data | | |
|-----|----------|-------------------------------|-------------------|-------------------|---------------|---------------|-------------------------|--|--|----------------|----|
| # | Building | Room/Area | Fixture Type | Lighting (Pre) | Pre- Watts | Pre # Fixt | Lamps per Fixture | Lighting (Post) | Recommended Make: Model # | Post- Watts | |
| 1 | Main | Finance / Open Area | Sconce | CFT 9W 2L | 23 | 4 | 2 | (2) LED 6-Watt 2-pin Lamp Ballast Bypass | Keystone: KT-LED62P-O-840-D | 12 | 4 |
| 2 | Main | Men's RR | Can Rec 6" | CFT 26W 1L | 33 | 1 | 1 | LED 9-Watt 6" Downlight Retrofit | ESPEN: VEKR6D/8T/13W-10V | 9 | 1 |
| 3 | Main | Women's RR | Can Rec 6" | CFT 26W 1L | 33 | 1 | 1 | LED 9-Watt 6" Downlight Retrofit | ESPEN: VEKR6D/8T/13W-10V | 9 | 1 |
| 4 | Main | 4th Fir: Hallway | Can Rec 6" | CFT 26W 1L | 33 | 3 | 1 | LED 9-Watt 6" Downlight Retrofit | ESPEN: VEKR6D/8T/13W-10V | 9 | 3 |
| 5 | Main | Hallway | Can Rec 6" | CFT 26W 2L | 66 | 5 | 2 | LED 13-Watt 6" Downlight Retrofit | ESPEN: VEKR6D/8T/13W-10V | 13 | 5 |
| 6 1 | Main | 3rd Flr: Hallway | Rec 2'x2' Troffer | F17T82L | 33 | 16 | 2 | (2) LED 9-Watt 2' Tubes & Ballast | ESPEN: L24T8/840/12P-EB , VE2P32MVHIPE | 20 | 16 |
| 7 1 | Main | Westside Training Rm | Rec 2'x2' Troffer | F17T82L | 33 | 2 | 2 | (2) LED 9-Watt 2' Tubes & Ballast | ESPEN: L24T8/840/12P-EB , VE2P32MVHIPE | 20 | 2 |
| 8 1 | Main | Westside Open Office | Rec 2'x2' Troffer | F17T82L | 33 | 10 | 2 | (2) LED 9-Watt 2' Tubes & Ballast | ESPEN: L24T8/840/12P-EB , VE2P32MVHIPE | 20 | 10 |
| 9 1 | Main | Hallway | Rec 2'x2' Troffer | F17T82L | 33 | 15 | 2 | (2) LED 9-Watt 2' Tubes & Ballast | ESPEN: L24T8/840/12P-EB , VE2P32MVHIPE | 20 | 15 |
| 10 | Main | 1st Flr: Back Mail Rm | Rec 2'x2' Troffer | F17T83L | 47 | 1 | 3 | (3) LED 9-Watt 2' Tubes & Ballast | ESPEN: L24T8/840/12P-EB , VE3P32MVHIPE | 30 | 1 |
| 11 | Main | 2nd Flr: Hallway | Rec 2'x2' Troffer | F17T83L | 47 | 16 | 3 | (3) LED 9-Watt 2' Tubes & Ballast | ESPEN: L24T8/840/12P-EB , VE3P32MVHIPE | 30 | 16 |
| 12 | Main | Office | Rec 2'x2' Troffer | F17T83L | 47 | 2 | 3 | (3) LED 9-Watt 2' Tubes & Ballast | ESPEN: L24T8/840/12P-EB , VE3P32MVHIPE | 30 | 2 |
| 13 | Main | Electrical Rm | Strip 4' | F32T81L | 31 | 6 | 1 | (1) LED 12-Watt 4' Tube & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 12 | 6 |
| 14 | Main | Men's RR | Wallwash | F32T81L | 31 | 6 | 1 | (1) LED 12-Watt 4' Tube & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 12 | 6 |
| 15 | Main | Women's RR | Wallwash | F32T81L | 31 | 6 | 1 | (1) LED 12-Watt 4' Tube & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 12 | 6 |
| 16 | Main | Finance Hall x 6 | Strip 4' | F32T82L | 59 | 12 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 12 |
| 17 | Main | Office | Rec 2'x4' Troffer | F32T82L | 59 | 2 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 2 |
| 18 | Main | Server Rm | Strip 4' | F32T82L | 59 | 2 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 2 |
| 19 | Main | Electrical Rm. | Strip 4' | F32T82L | 59 | 1 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 1 |
| 20 | Main | Westside Office (9x Combined) | Rec 2'x4' Troffer | F32T82L | 59 | 18 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 18 |
| 21 | Main | 1st Flr: Back Mail Rm | Rec 2'x4' Troffer | F32T83L | 89 | 9 | 3 | (3) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE3P32MVHIPE | 36 | 9 |
| 22 | Main | Finance/ Open Area | Rec 2'x4' Troffer | F32T83L | 89 | 78 | 3 | (3) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE3P32MVHIPE | 36 | 78 |
| 23 | Main | Office (3x Combined) (a) | Rec 2'x4' Troffer | F32T83L | 89 | 6 | 3 | (3) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE3P32MVHIPE | 36 | 6 |
| 24 | Main | Public Work Area / Admin | Rec 2'x4' Troffer | F32T83L | 89 | 6 | 3 | (3) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE3P32MVHIPE | 36 | 6 |
| 25 | Main | Open Area | Rec 2'x4' Troffer | F32T83L | 89 | 85 | 3 | (3) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE3P32MVHIPE | 36 | 85 |
| 26 | Main | Conference Rm (1) | Rec 2'x4' Troffer | F32T83L | 89 | 8 | 3 | (3) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE3P32MVHIPE | 36 | 8 |
| 27 | Main | Office (1) | Rec 2'x4' Troffer | F32T83L | 89 | 24 | 3 | (3) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE3P32MVHIPE | 36 | 24 |
| 28 | Main | Office (6x Combined) | Rec 2'x4' Troffer | F32T83L | 89 | 18 | 3 | (3) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE3P32MVHIPE | 36 | 18 |
| 29 | Main | Office (2) | Rec 2'x4' Troffer | F32T83L | 89 | 5 | 3 | (3) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE3P32MVHIPE | 36 | 5 |
| 30 | Main | Office (3x Combined) (b) | Rec 2'x4' Troffer | F32T83L | 89 | 6 | 3 | (3) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE3P32MVHIPE | 36 | 6 |
| 31 | Main | Office (3) | Rec 2'x4' Troffer | F32T83L | 89 | 4 | 3 | (3) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE3P32MVHIPE | 36 | 4 |
| 32 | Main | Office (2x Combined) | Rec 2'x4' Troffer | F32T83L | 89 | 4 | 3 | (3) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE3P32MVHIPE | 36 | 4 |

Detailed Lighting Inventory - San Bernardino County - New Hall of Records



| | Gene | ral Information | E | xisting Fixture | Data | | | Pro | pposed Fixture Data | | |
|----|----------|----------------------|-------------------|-----------------|---------------|---------------|-------------------------|------------------------------------|--|----------------|--------|
| # | Building | Room/Area | Fixture Type | Lighting (Pre) | Pre- Watts | Pre # Fixt | Lamps per Fixture | Lighting (Post) | Recommended Make: Model # | Post- Watts | Post # |
| 33 | Main | Break Rm | Rec 2'x4' Troffer | F32T83L | 89 | 6 | 3 | (3) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE3P32MVHIPE | 36 | 6 |
| 34 | Main | Work Rm | Rec 2'x4' Troffer | F32T83L | 89 | 3 | 3 | (3) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE3P32MVHIPE | 36 | 3 |
| 35 | Main | Hallway | Rec 2'x4' Troffer | F32T83L | 89 | 1 | 3 | (3) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE3P32MVHIPE | 36 | 1 |
| 36 | Main | Westside Hall | Rec 2'x4' Troffer | F32T83L | 89 | 2 | 3 | (3) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE3P32MVHIPE | 36 | 2 |
| 37 | Main | Westside Office | Rec 2'x4' Troffer | F32T83L | 89 | 8 | 3 | (3) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE3P32MVHIPE | 36 | 8 |
| 38 | Main | Westside Training RM | Rec 2'x4' Troffer | F32T83L | 89 | 25 | 3 | (3) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE3P32MVHIPE | 36 | 25 |
| 39 | Main | Westside Open Off | Rec 2'x4' Troffer | F32T83L | 89 | 83 | 3 | (3) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE3P32MVHIPE | 36 | 83 |
| 40 | Main | Lunch Rm | Rec 2'x4' Troffer | F32T83L | 89 | 14 | 3 | (3) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE3P32MVHIPE | 36 | 14 |
| 41 | Main | Conference Rm (2) | Rec 2'x4' Troffer | F32T83L | 89 | 8 | 3 | (3) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE3P32MVHIPE | 36 | 8 |
| 42 | Main | Office | Rec 2'x4' Troffer | F32T83L | 89 | 4 | 3 | (3) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE3P32MVHIPE | 36 | 4 |
| 43 | Main | Server Rm | Rec 2'x4' Troffer | F40T123L | 115 | 1 | 3 | (3) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE3P32MVHIPE | 36 | 1 |
| 44 | Main | Open Area | Rec 2'x4' Troffer | FU31T8/6 2L | 59 | 3 | 2 | (2) LED 15-Watt 2' U-Tube & Driver | ESPEN: LB48T8U6/850/13P-AB, VE2P32MVHIPE | 30 | 3 |
| 45 | Main | Front Entry | Can Rec 6" | MV 75W | 93 | 11 | 1 | LED 9-Watt 6" Downlight Retrofit | ESPEN: VEKR6D/8T/13W-10V | 9 | 11 |

Detailed Lighting Inventory - San Bernardino County - Old Crime Lab



| | General | Information | Exis | ting Fixture | Data | | | Pr | oposed Fixture Data | | |
|----|----------|----------------------|-------------------------|----------------|---------------|---------------|-------------------------|------------------------------------|---------------------------------------|----------------|-----|
| # | Building | Room/Area | Fixture Type | Lighting (Pre) | Pre- Watts | Pre # Fixt | Lamps per Fixture | Lighting (Post) | Recommended Make: Model # | Post- Watts | |
| 1 | Main | Rm 75 | Strip 4' Box | F32T82L | 59 | 2 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 2 |
| 2 | Main | Rm 76 | Surface Mount Box 1'x4' | F32T82L | 59 | 4 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 4 |
| 3 | Main | Entry/Lobby | Rec 2'x4' Troffer | F32T82L | 59 | 6 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 6 |
| 4 | Main | Hallway | Rec 2'x4' Troffer | F32T82L | 59 | 12 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 12 |
| 5 | Main | Office (7x Combined) | Fixture | F32T82L | 59 | 14 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 14 |
| 6 | Main | Storage | Fixture | F32T82L | 59 | 1 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 1 |
| 7 | Main | DNA Lab Men's RR | Rec 2'x4' Troffer | F32T82L | 59 | 2 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 2 |
| 8 | Main | DNA Lab Women's RR | Rec 2'x4' Troffer | F32T82L | 59 | 2 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 2 |
| 9 | Main | Office (3x Combined) | Rec 2'x4' Troffer | F32T82L | 59 | 6 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 6 |
| 10 | Main | L8 | Surface Mount 4' | F32T82L | 59 | 4 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 4 |
| 11 | Main | L21 | Rec 1'x4' | F32T82L | 59 | 1 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 1 |
| 12 | Main | Elec Rm | Strip 4' | F32T82L | 59 | 2 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 2 |
| 13 | Main | Evidence Warehouse | Strip 4' | F32T82L | 59 | 206 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 206 |
| 14 | Main | Admin Open Area | Rec 2'x4' Troffer | F32T83L | 89 | 14 | 3 | (3) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE3P32MVHIPE | 36 | 14 |
| 15 | Main | Evidence Rm | Rec 2'x4' Troffer D/ID | F32T83L | 89 | 4 | 3 | (3) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE3P32MVHIPE | 36 | 4 |
| 16 | Main | Property South | Rec 2'x4' Troffer | F32T83L | 89 | 30 | 3 | (3) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE3P32MVHIPE | 36 | 30 |
| 17 | Main | Rm 77 | Surface Mount 2'x4' | F32T84L | 112 | 12 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 12 |
| 18 | Main | Rm 76 | Surface Mount 2'x4' | F32T84L | 112 | 4 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 4 |
| 19 | Main | Hallway | Rec 2'x4' Troffer | F32T84L | 112 | 3 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 3 |
| 20 | Main | Conf Rm | Rec 2'x4' Troffer | F32T84L | 112 | 8 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 8 |
| 21 | Main | DNA Lab | Rec 2'x4' Troffer | F32T84L | 112 | 48 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 48 |
| 22 | Main | Extraction Rm | Rec 2'x4' Troffer | F32T84L | 112 | 23 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 23 |
| 23 | Main | Exam Rm | Strip 8' | F32T84L | 112 | 2 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 2 |
| 24 | Main | Break Rm | Rec 2'x4' Troffer | F32T84L | 112 | 4 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 4 |
| 25 | Main | Hall Rooms | Rec 2'x4' Troffer | F32T84L | 112 | 36 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 36 |
| 26 | Main | Property Office | Rec 2'x4' Troffer | F32T84L | 112 | 21 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 21 |
| 27 | Main | Office (5x Combined) | Rec 2'x4' Troffer | F32T84L | 112 | 10 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 10 |
| 28 | Main | Lounge | Rec 2'x4' Troffer | F32T84L | 112 | 2 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 2 |



| Cou | inty of S | San Bernardino: Sherif | f Headquarters: In | terior Ligh | ting | | | | | | |
|-----|-----------|-----------------------------|--------------------|----------------|---------------|---------------|-------------------------|------------------------------------|--|----------------|----------------|
| | Ge | neral Information | Exist | ing Fixture D | Data | | | | Proposed Fixture Data | | |
| # | Building | Room/Area | Fixture Type | Lighting (Pre) | Pre- Watts | Pre # Fixt | Lamps per Fixture | Lighting (Post) | Recommended Make: Model # | Post- Watts | Post # Fixt |
| 1 | Main | Stairwell (1) | Can Rec 6" | CFL 23W 1L | 23 | 4 | 1 | LED 6.5-Watt 6" Downlight Retrofit | ESPEN: VEKR6D/8T/13W-10V | 6.5 | 4 |
| 2 | Main | Stairwell (2) | Can Rec 6" | CFL 23W 1L | 23 | 4 | 1 | LED 6.5-Watt 6" Downlight Retrofit | ESPEN: VEKR6D/8T/13W-10V | 6.5 | 4 |
| 3 | Main | Entry Hallway | Can Rec 6" | CFT 9W 2L | 23 | 51 | 2 | LED 6.5-Watt 6" Downlight Retrofit | ESPEN: VEKR6D/8T/13W-10V | 6.5 | 51 |
| 4 | Main | Central Station Open Office | Can Rec 6" | CFT 9W 2L | 23 | 6 | 2 | LED 6.5-Watt 6" Downlight Retrofit | ESPEN: VEKR6D/8T/13W-10V | 6.5 | 6 |
| 5 | Main | Main Hallway | Can Rec 6" | CFT 9W 2L | 23 | 20 | 2 | LED 6.5-Watt 6" Downlight Retrofit | ESPEN: VEKR6D/8T/13W-10V | 6.5 | 20 |
| 6 | Main | Open Area (1) | Can Rec 6" | CFT 9W 2L | 23 | 9 | 2 | LED 6.5-Watt 6" Downlight Retrofit | ESPEN: VEKR6D/8T/13W-10V | 6.5 | 9 |
| 7 | Main | ERD Open Area | Can Rec 6" | CFT 9W 2L | 23 | 5 | 2 | LED 6.5-Watt 6" Downlight Retrofit | ESPEN: VEKR6D/8T/13W-10V | 6.5 | 5 |
| 8 | Main | Open Area (2) | Can Rec 6" | CFT 9W 2L | 23 | 3 | 2 | LED 6.5-Watt 6" Downlight Retrofit | ESPEN: VEKR6D/8T/13W-10V | 6.5 | 3 |
| 9 | Main | 2nd Fir: Hall (1) | Can Rec 6" | CFT 9W 2L | 23 | 34 | 2 | LED 6.5-Watt 6" Downlight Retrofit | ESPEN: VEKR6D/8T/13W-10V | 6.5 | 34 |
| 10 | Main | 2nd Fir: Hall (2) | Can Rec 6" | CFT 9W 2L | 23 | 44 | 2 | LED 6.5-Watt 6" Downlight Retrofit | ESPEN: VEKR6D/8T/13W-10V | 6.5 | 44 |
| 11 | Main | Admin Open Area | Can Rec 6" | CFT 9W 2L | 23 | 1 | 2 | LED 6.5-Watt 6" Downlight Retrofit | ESPEN: VEKR6D/8T/13W-10V | 6.5 | 1 |
| 12 | Main | Public Affairs Open Area | Can Rec 6" | CFT 9W 2L | 23 | 8 | 2 | LED 6.5-Watt 6" Downlight Retrofit | ESPEN: VEKR6D/8T/13W-10V | 6.5 | 8 |
| 13 | Main | 2nd Flr: Hall (3) | Can Rec 6" | CFT 9W 2L | 23 | 40 | 2 | LED 6.5-Watt 6" Downlight Retrofit | ESPEN: VEKR6D/8T/13W-10V | 6.5 | 40 |
| 14 | Main | County Council Ent | Can Rec 6" | CFT 9W 2L | 23 | 3 | 2 | LED 6.5-Watt 6" Downlight Retrofit | ESPEN: VEKR6D/8T/13W-10V | 6.5 | 3 |
| 15 | Main | Open Area (3) | Can Rec 6" | CFT 9W 2L | 23 | 18 | 2 | LED 6.5-Watt 6" Downlight Retrofit | ESPEN: VEKR6D/8T/13W-10V | 6.5 | 18 |
| 16 | Main | Sheriffs Office | Can Rec 6" | CFT 9W 2L | 23 | 16 | 2 | LED 6.5-Watt 6" Downlight Retrofit | ESPEN: VEKR6D/8T/13W-10V | 6.5 | 16 |
| 17 | Main | Conference Rm | Can Rec 6" | CFT 9W 2L | 23 | 6 | 2 | LED 6.5-Watt 6" Downlight Retrofit | ESPEN: VEKR6D/8T/13W-10V | 6.5 | 6 |
| 18 | TSD Area | Conference Rm | Rec 2'x2' Troffer | F17T84L | 61 | 1 | 4 | (4) LED 9-Watt 2' Tubes & Ballast | ESPEN: L24T8/840/12P-EB , VE2P32MVHIPE | 40 | 1 |
| 19 | Main | Asst. Sheriff (2x Combined) | Rec 2'x2' Troffer | F17T84L | 61 | 8 | 4 | (4) LED 9-Watt 2' Tubes & Ballast | ESPEN: L24T8/840/12P-EB , VE2P32MVHIPE | 40 | 8 |
| 20 | Main | Empty Office | Rec 2'x2' Troffer | F17T84L | 61 | 12 | 4 | (4) LED 9-Watt 2' Tubes & Ballast | ESPEN: L24T8/840/12P-EB , VE2P32MVHIPE | 40 | 12 |
| 21 | Main | Main Hallway (1) | Surface Mount 4' | F32T82L | 59 | 35 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 35 |
| 22 | Main | Storage (1) | Surface Mount 4' | F32T82L | 59 | 2 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 2 |
| 23 | Main | Open Area (1) | Surface Mount 4' | F32T82L | 59 | 2 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 2 |
| 24 | Main | Main Hallway (2) | Surface Mount 4' | F32T82L | 59 | 12 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 12 |
| 25 | Main | Hall Restroom | Surface Mount 4' | F32T82L | 59 | 1 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 1 |
| 26 | TSD Area | TSD Snack Area | Surface Mount 4' | F32T82L | 59 | 3 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 3 |
| 27 | TSD Area | Break Rm | Rec 2'x4' Troffer | F32T82L | 59 | 3 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 3 |
| 28 | TSD Area | Storage Rm | Surface Mount 4' | F32T82L | 59 | 3 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 3 |
| 29 | TSD Area | TSD Open Office | Rec 2'x4' Troffer | F32T82L | 59 | 2 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 2 |
| 30 | TSD Area | Office (1) | Rec 2'x4' Troffer | F32T82L | 59 | 2 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 2 |
| 31 | TSD Area | Office (2) | Rec 2'x4' Troffer | F32T82L | 59 | 2 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 2 |
| 32 | TSD Area | Office (3) | Rec 2'x4' Troffer | F32T82L | 59 | 3 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 3 |



| Cou | nty of S | San Bernardino: Sheriff | Headquarters: In | terior Ligh | ting | | | | | | |
|-----|----------|--------------------------------------|---------------------|----------------|---------------|---------------|-------------------------|------------------------------------|---------------------------------------|----------------|----|
| | Ge | neral Information | Exist | ing Fixture D | Data | | | | Proposed Fixture Data | | |
| # | Building | Room/Area | Fixture Type | Lighting (Pre) | Pre- Watts | Pre # Fixt | Lamps per Fixture | Lighting (Post) | Recommended Make: Model # | Post- Watts | |
| 33 | TSD Area | Office (4) | Rec 2'x4' Troffer | F32T82L | 59 | 2 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 2 |
| 34 | TSD Area | Conference Rm | Rec 2'x4' Troffer | F32T82L | 59 | 2 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 2 |
| 35 | TSD Area | Conference Rm | Surface Mount 2'x4' | F32T82L | 59 | 1 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 1 |
| 36 | TSD Area | Office (5) | Rec 2'x4' Troffer | F32T82L | 59 | 2 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 2 |
| 37 | TSD Area | Office (6) | Rec 2'x4' Troffer | F32T82L | 59 | 2 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 2 |
| 38 | TSD Area | Office (7) | Rec 2'x4' Troffer | F32T82L | 59 | 2 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 2 |
| 39 | TSD Area | Office (8) | Rec 2'x4' Troffer | F32T82L | 59 | 2 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 2 |
| 40 | Main | Office (1) | Surface Mount 4' | F32T82L | 59 | 1 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 1 |
| 41 | Main | Office (2) | Surface Mount 4' | F32T82L | 59 | 1 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 1 |
| 42 | Main | Office (3) | Surface Mount 4' | F32T82L | 59 | 1 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 1 |
| 43 | Main | Office (4) | Surface Mount 4' | F32T82L | 59 | 1 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 1 |
| 44 | Main | Mechanical | Strip 4' | F32T82L | 59 | 2 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 2 |
| 45 | Main | Back Hallway | Surface Mount 4' | F32T82L | 59 | 1 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 1 |
| 46 | Main | Cell 1 | Surface Mount 4' | F32T82L | 59 | 1 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 1 |
| 47 | Main | Cell 2 | Surface Mount 4' | F32T82L | 59 | 1 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 1 |
| 48 | Main | Office (9) | Rec 2'x4' Troffer | F32T82L | 59 | 1 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 1 |
| 49 | Main | Electric Rm | Strip 4' | F32T82L | 59 | 2 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 2 |
| 50 | Main | Office Hallway | Rec 2'x4' Troffer | F32T82L | 59 | 2 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 2 |
| 51 | Main | Interview Rm | Rec 2'x4' Troffer | F32T82L | 59 | 1 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 1 |
| 52 | Main | Office (10) | Rec 2'x4' Troffer | F32T82L | 59 | 2 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 2 |
| 53 | Main | Office 1 (a) | Rec 2'x4' Troffer | F32T82L | 59 | 3 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 3 |
| 54 | Main | Office 2 | Rec 2'x4' Troffer | F32T82L | 59 | 2 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 2 |
| 55 | Main | Office 3 | Rec 2'x4' Troffer | F32T82L | 59 | 2 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 2 |
| 56 | Main | Office 4 | Rec 2'x4' Troffer | F32T82L | 59 | 2 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 2 |
| 57 | Main | Office 5 | Rec 2'x4' Troffer | F32T82L | 59 | 2 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 2 |
| 58 | Main | Office 6 | Rec 2'x4' Troffer | F32T82L | 59 | 2 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 2 |
| 59 | Main | Office 7 | Surface Mount 4' | F32T82L | 59 | 4 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 4 |
| 60 | Main | Office 1 (b) | Rec 2'x4' Troffer | F32T82L | 59 | 2 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 2 |
| 61 | Main | Public Affairs Hallway | Surface Mount 4' | F32T82L | 59 | 2 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 2 |
| 62 | Main | Public Affairs Offices (3x Combined) | Rec 2'x4' Troffer | F32T82L | 59 | 9 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 9 |
| 63 | Main | 2nd Flr: Hallway (1) | Surface Mount 4' | F32T82L | 59 | 35 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 35 |
| 64 | Main | 2nd Flr: Hallway (2) | Surface Mount 4' | F32T82L | 59 | 2 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 2 |



| Cou | | San Bernardino: Sherneral Information | | ting Fixture D | | | | | Proposed Fixture Data | | |
|-----|----------|---------------------------------------|---------------------|----------------|------|---------------|-------------------------|------------------------------------|---------------------------------------|----------------|----|
| # | Building | Room/Area | Fixture Type | Lighting (Pre) | Pre- | Pre # Fixt | Lamps per Fixture | Lighting (Post) | Recommended Make: Model # | Post- Watts | |
| 65 | Main | 2nd Flr: Hallway (3) | Surface Mount 4' | F32T82L | 59 | 10 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 10 |
| 66 | Main | Janitor | Strip 4' | F32T82L | 59 | 1 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 1 |
| 67 | Main | Central Storage | Strip 4' | F32T82L | 59 | 14 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 14 |
| 68 | Main | Electrical Rm | Strip 4' | F32T82L | 59 | 1 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 1 |
| 69 | Main | Storage (2) | Surface Mount 4' | F32T82L | 59 | 4 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 4 |
| 70 | Main | Storage (3) | Surface Mount 4' | F32T82L | 59 | 5 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 5 |
| 71 | Main | Hallway / Stairwell | Surface Mount 4' | F32T82L | 59 | 5 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 5 |
| 72 | Main | Entrance | Rec 2'x4' Troffer | F32T82L | 59 | 2 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 2 |
| 73 | Main | Open Area (2) | Surface Mount 4' | F32T82L | 59 | 1 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 1 |
| 74 | Main | Electrical Rm (1) | Surface Mount 4' | F32T82L | 59 | 2 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 2 |
| 75 | Main | Electrical Rm (2) | Surface Mount 4' | F32T82L | 59 | 2 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 2 |
| 76 | Main | Stairwell | Surface Mount 4' | F32T82L | 59 | 1 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 1 |
| 77 | Main | Central Station Open Office | Rec 2'x4' Troffer | F32T83L | 89 | 13 | 3 | (3) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE3P32MVHIPE | 36 | 13 |
| 78 | Main | Central Station Hallway | Rec 2'x4' Troffer | F32T83L | 89 | 8 | 3 | (3) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE3P32MVHIPE | 36 | 8 |
| 79 | Main | Break Rm (1) | Rec 2'x4' Troffer | F32T83L | 89 | 2 | 3 | (3) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE3P32MVHIPE | 36 | 2 |
| 80 | Main | Office (1) | Rec 2'x4' Troffer | F32T83L | 89 | 3 | 3 | (3) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE3P32MVHIPE | 36 | 3 |
| 81 | Main | Interview Rm 1 | Surface Mount 2'x4' | F32T83L | 89 | 1 | 3 | (3) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE3P32MVHIPE | 36 | 1 |
| 82 | Main | Interview Rm 2 | Surface Mount 2'x4' | F32T83L | 89 | 1 | 3 | (3) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE3P32MVHIPE | 36 | 1 |
| 83 | Main | Report Rm | Rec 2'x4' Troffer | F32T83L | 89 | 3 | 3 | (3) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE3P32MVHIPE | 36 | 3 |
| 84 | TSD Area | Open Office | Rec 2'x4' Troffer | F32T83L | 89 | 17 | 3 | (3) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE3P32MVHIPE | 36 | 17 |
| 85 | TSD Area | Office (2) | Rec 2'x4' Troffer | F32T83L | 89 | 2 | 3 | (3) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE3P32MVHIPE | 36 | 2 |
| 86 | TSD Area | Office (3) | Rec 2'x4' Troffer | F32T83L | 89 | 3 | 3 | (3) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE3P32MVHIPE | 36 | 3 |
| 87 | Main | Internal Affairs | Rec 2'x4' Troffer | F32T83L | 89 | 6 | 3 | (3) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE3P32MVHIPE | 36 | 6 |
| 88 | Main | Room 4 (a) | Rec 2'x4' Troffer | F32T83L | 89 | 1 | 3 | (3) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE3P32MVHIPE | 36 | 1 |
| 89 | Main | Kids Rm | Rec 2'x4' Troffer | F32T83L | 89 | 2 | 3 | (3) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE3P32MVHIPE | 36 | 2 |
| 90 | Main | Amber Alert Rm | Surface Mount 2'x4' | F32T83L | 89 | 3 | 3 | (3) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE3P32MVHIPE | 36 | 3 |
| 91 | Main | Room 3 | Rec 2'x4' Troffer | F32T83L | 89 | 1 | 3 | (3) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE3P32MVHIPE | 36 | 1 |
| 92 | Main | Background Office (1) | Surface Mount 2'x4' | F32T83L | 89 | 1 | 3 | (3) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE3P32MVHIPE | 36 | 1 |
| 93 | Main | Background Office (2) | Surface Mount 2'x4' | F32T83L | 89 | 1 | 3 | (3) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE3P32MVHIPE | 36 | 1 |
| 94 | Main | Room 1 | Rec 2'x4' Troffer | F32T83L | 89 | 1 | 3 | (3) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE3P32MVHIPE | 36 | 1 |
| 95 | Main | Room 4 (b) | Rec 2'x4' Troffer | F32T83L | 89 | 1 | 3 | (3) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE3P32MVHIPE | 36 | 1 |
| 96 | Main | 1st Flr: Civil Lib Open Office | Rec 2'x4' Troffer | F32T83L | 89 | 13 | 3 | (3) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE3P32MVHIPE | 36 | 13 |



| Cou | nty of S | San Bernardino: Sherif | f Headquarters: In | terior Ligh | ting | | | | | | |
|-----|----------|-------------------------------------|---------------------|----------------|---------------|---------------|-------------------------|------------------------------------|---------------------------------------|----------------|----|
| | Ge | neral Information | Exist | ing Fixture D | Data | | | | Proposed Fixture Data | | |
| # | Building | Room/Area | Fixture Type | Lighting (Pre) | Pre- Watts | Pre # Fixt | Lamps per Fixture | Lighting (Post) | Recommended Make: Model # | Post- Watts | |
| 97 | Main | Break Area | Rec 2'x4' Troffer | F32T83L | 89 | 3 | 3 | (3) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE3P32MVHIPE | 36 | 3 |
| 98 | Main | Mail Rm | Rec 2'x4' Troffer | F32T83L | 89 | 5 | 3 | (3) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE3P32MVHIPE | 36 | 5 |
| 99 | Main | Office (4) | Rec 2'x4' Troffer | F32T83L | 89 | 3 | 3 | (3) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE3P32MVHIPE | 36 | 3 |
| 100 | Main | Office (5) | Rec 2'x4' Troffer | F32T83L | 89 | 3 | 3 | (3) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE3P32MVHIPE | 36 | 3 |
| 101 | Main | Storage (1) | Rec 2'x4' Troffer | F32T83L | 89 | 1 | 3 | (3) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE3P32MVHIPE | 36 | 1 |
| 102 | Main | Records Hallway | Rec 2'x4' Troffer | F32T83L | 89 | 1 | 3 | (3) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE3P32MVHIPE | 36 | 1 |
| 103 | Main | Break Rm (2) | Rec 2'x4' Troffer | F32T83L | 89 | 10 | 3 | (3) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE3P32MVHIPE | 36 | 10 |
| 104 | Main | Office (6) | Rec 2'x4' Troffer | F32T83L | 89 | 2 | 3 | (3) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE3P32MVHIPE | 36 | 2 |
| 105 | Main | Office (7) | Rec 2'x4' Troffer | F32T83L | 89 | 2 | 3 | (3) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE3P32MVHIPE | 36 | 2 |
| 106 | Main | Office (8) | Rec 2'x4' Troffer | F32T83L | 89 | 2 | 3 | (3) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE3P32MVHIPE | 36 | 2 |
| 107 | Main | Office (9) | Rec 2'x4' Troffer | F32T83L | 89 | 2 | 3 | (3) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE3P32MVHIPE | 36 | 2 |
| 108 | Main | Office (10) | Rec 2'x4' Troffer | F32T83L | 89 | 2 | 3 | (3) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE3P32MVHIPE | 36 | 2 |
| 109 | Main | Conference Rm | Rec 2'x4' Troffer | F32T83L | 89 | 2 | 3 | (3) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE3P32MVHIPE | 36 | 2 |
| 110 | Main | Polygraph Common | Rec 2'x4' Troffer | F32T83L | 89 | 9 | 3 | (3) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE3P32MVHIPE | 36 | 9 |
| 111 | Main | Storage | Surface Mount 2'x4' | F32T83L | 89 | 1 | 3 | (3) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE3P32MVHIPE | 36 | 1 |
| 112 | Main | Admin Open Area | Rec 2'x4' Troffer | F32T83L | 89 | 34 | 3 | (3) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE3P32MVHIPE | 36 | 34 |
| 113 | Main | Public Affairs Open Area | Rec 2'x4' Troffer | F32T83L | 89 | 34 | 3 | (3) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE3P32MVHIPE | 36 | 34 |
| 114 | Main | Public Affairs Offices (8x Combined | Rec 2'x4' Troffer | F32T83L | 89 | 16 | 3 | (3) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE3P32MVHIPE | 36 | 16 |
| 115 | Main | TSD Admin Hallway | Rec 2'x4' Troffer | F32T83L | 89 | 7 | 3 | (3) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE3P32MVHIPE | 36 | 7 |
| 116 | Main | TSD Offices (5x Combined) | Rec 2'x4' Troffer | F32T83L | 89 | 10 | 3 | (3) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE3P32MVHIPE | 36 | 10 |
| 117 | Main | Service Desk Open Area | Rec 2'x4' Troffer | F32T83L | 89 | 21 | 3 | (3) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE3P32MVHIPE | 36 | 21 |
| 118 | Main | Offices (2x Combined) | Rec 2'x4' Troffer | F32T83L | 89 | 2 | 3 | (3) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE3P32MVHIPE | 36 | 2 |
| 119 | Main | Telecom Rm | Rec 2'x4' Troffer | F32T83L | 89 | 1 | 3 | (3) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE3P32MVHIPE | 36 | 1 |
| 120 | Main | Storage (2) | Rec 2'x4' Troffer | F32T83L | 89 | 2 | 3 | (3) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE3P32MVHIPE | 36 | 2 |
| 121 | Main | Intel Area | Rec 2'x4' Troffer | F32T83L | 89 | 52 | 3 | (3) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE3P32MVHIPE | 36 | 52 |
| 122 | Main | LT Office | Rec 2'x4' Troffer | F32T83L | 89 | 4 | 3 | (3) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE3P32MVHIPE | 36 | 4 |
| 123 | Main | Offices (5x Combined) | Rec 2'x4' Troffer | F32T83L | 89 | 10 | 3 | (3) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE3P32MVHIPE | 36 | 10 |
| 124 | Main | Office (1) | Rec 2'x4' Troffer | F32T84L | 112 | 3 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 3 |
| 125 | Main | Admin Srgt Office | Rec 2'x4' Troffer | F32T84L | 112 | 2 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 2 |
| 126 | Main | Capt. Office | Rec 2'x4' Troffer | F32T84L | 112 | 5 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 5 |
| 127 | Main | LT Office | Rec 2'x4' Troffer | F32T84L | 112 | 2 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 2 |
| 128 | Main | Admin LT | Rec 2'x4' Troffer | F32T84L | 112 | 2 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 2 |



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|-----|----------|--------------------------|---------------------|----------------|---------------|---------------|-------------------------|------------------------------------|---------------------------------------|----------------|----------------|
| | Ge | neral Information | Exist | ing Fixture D | Data | | | | Proposed Fixture Data | | |
| # | Building | Room/Area | Fixture Type | Lighting (Pre) | Pre- Watts | Pre # Fixt | Lamps per Fixture | Lighting (Post) | Recommended Make: Model # | Post- Watts | Post # Fixt |
| 129 | Main | Open Area (1) | Rec 2'x4' Troffer | F32T84L | 112 | 18 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 18 |
| 130 | Main | Briefing Rm | Rec 2'x4' Troffer | F32T84L | 112 | 9 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 9 |
| 131 | Main | Office (2) | Rec 2'x4' Troffer | F32T84L | 112 | 2 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 2 |
| 132 | Main | Larry Flace Conf Rm | Rec 2'x4' Troffer | F32T84L | 112 | 4 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 4 |
| 133 | Main | Commanders Office | Rec 2'x4' Troffer | F32T84L | 112 | 5 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 5 |
| 134 | Main | Detective Bureau | Rec 2'x4' Troffer | F32T84L | 112 | 12 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 12 |
| 135 | Main | Secretary Office | Surface Mount 2'x4' | F32T84L | 112 | 1 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 1 |
| 136 | Main | Detective Srgt Office | Rec 2'x4' Troffer | F32T84L | 112 | 4 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 4 |
| 137 | Main | Evidence Office | Rec 2'x4' Troffer | F32T84L | 112 | 3 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 3 |
| 138 | Main | Open Office (1) | Rec 2'x4' Troffer | F32T84L | 112 | 66 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 66 |
| 139 | Main | Office (3) | Rec 2'x4' Troffer | F32T84L | 112 | 1 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 1 |
| 140 | Main | Conference Rm (1) | Rec 2'x4' Troffer | F32T84L | 112 | 12 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 12 |
| 141 | Main | Office (4) | Rec 2'x4' Troffer | F32T84L | 112 | 2 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 2 |
| 142 | Main | Office (5) | Rec 2'x4' Troffer | F32T84L | 112 | 2 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 2 |
| 143 | Main | Office (6) | Rec 2'x4' Troffer | F32T84L | 112 | 1 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 1 |
| 144 | Main | Storage | Surface Mount 2'x4' | F32T84L | 112 | 1 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 1 |
| 145 | Main | Internal Affairs Library | Rec 2'x4' Troffer | F32T84L | 112 | 6 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 6 |
| 146 | Main | Supply (1) | Rec 2'x4' Troffer | F32T84L | 112 | 2 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 2 |
| 147 | Main | Office (7) | Rec 2'x4' Troffer | F32T84L | 112 | 1 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 1 |
| 148 | Main | Office (8) | Rec 2'x4' Troffer | F32T84L | 112 | 2 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 2 |
| 149 | Main | Office (9) | Rec 2'x4' Troffer | F32T84L | 112 | 2 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 2 |
| 150 | Main | Office (10) | Rec 2'x4' Troffer | F32T84L | 112 | 2 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 2 |
| 151 | Main | Office (11) | Rec 2'x4' Troffer | F32T84L | 112 | 3 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 3 |
| 152 | Main | Office (12) | Rec 2'x4' Troffer | F32T84L | 112 | 2 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 2 |
| 153 | Main | Office (13) | Rec 2'x4' Troffer | F32T84L | 112 | 2 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 2 |
| 154 | Main | Office (14) | Rec 2'x4' Troffer | F32T84L | 112 | 2 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 2 |
| 155 | Main | Office (15) | Rec 2'x4' Troffer | F32T84L | 112 | 2 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 2 |
| 156 | Main | Office (10x Combined) | Rec 2'x4' Troffer | F32T84L | 112 | 20 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 20 |
| 157 | Main | Storage (2x Combined) | Rec 2'x4' Troffer | F32T84L | 112 | 6 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 6 |
| 158 | Main | Open Area (2) | Rec 2'x4' Troffer | F32T84L | 112 | 66 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 66 |
| 159 | Main | Office (16) | Rec 2'x4' Troffer | F32T84L | 112 | 2 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 2 |
| 160 | Main | Office (17) | Rec 2'x4' Troffer | F32T84L | 112 | 2 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 2 |



| Cou | County of San Bernardino: Sheriff Headquarters: Interior Lighting | | | | | | | | | | | |
|---------------------|---|---------------------------|-----------------------|----------------|---------------|---------------|-------------------------|------------------------------------|---------------------------------------|----------------|----------------|--|
| General Information | | | Existing Fixture Data | | | | | Proposed Fixture Data | | | | |
| # | Building | Room/Area | Fixture Type | Lighting (Pre) | Pre- Watts | Pre # Fixt | Lamps per Fixture | Lighting (Post) | Recommended Make: Model # | Post- Watts | Post # Fixt | |
| 161 | Main | Office (18) | Rec 2'x4' Troffer | F32T84L | 112 | 2 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 2 | |
| 162 | Main | Office (19) | Rec 2'x4' Troffer | F32T84L | 112 | 2 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 2 | |
| 163 | Main | Office (20) | Rec 2'x4' Troffer | F32T84L | 112 | 3 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 3 | |
| 164 | Main | Office (21) | Rec 2'x4' Troffer | F32T84L | 112 | 4 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 4 | |
| 165 | Main | Office (22) | Rec 2'x4' Troffer | F32T84L | 112 | 2 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 2 | |
| 166 | Main | Office (23) | Rec 2'x4' Troffer | F32T84L | 112 | 4 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 4 | |
| 167 | Main | Office (24) | Rec 2'x4' Troffer | F32T84L | 112 | 8 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 8 | |
| 168 | Main | Office (25) | Rec 2'x4' Troffer | F32T84L | 112 | 4 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 4 | |
| 169 | Main | Supply (2) | Rec 2'x4' Troffer | F32T84L | 112 | 2 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 2 | |
| 170 | Main | Office / Storage | Rec 2'x4' Troffer | F32T84L | 112 | 7 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 7 | |
| 171 | Main | 1st Flr: Open Office | Rec 2'x4' Troffer | F32T84L | 112 | 11 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 11 | |
| 172 | Main | ERD Open Area | Rec 2'x4' Troffer | F32T84L | 112 | 27 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 27 | |
| 173 | Main | Open Area (3) | Rec 2'x4' Troffer | F32T84L | 112 | 23 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 23 | |
| 174 | Main | Break Rm (1) | Rec 2'x4' Troffer | F32T84L | 112 | 1 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 1 | |
| 175 | Main | Office (26) | Rec 2'x4' Troffer | F32T84L | 112 | 2 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 2 | |
| 176 | Main | Office (27) | Rec 2'x4' Troffer | F32T84L | 112 | 2 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 2 | |
| 177 | Main | Telecom Rm | Surface Mount 2'x4' | F32T84L | 112 | 1 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 1 | |
| 178 | Main | Exam Rm (4x Combined) | Rec 2'x4' Troffer | F32T84L | 112 | 8 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 8 | |
| 179 | Main | Office 2 | Rec 2'x4' Troffer | F32T84L | 112 | 1 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 1 | |
| 180 | Main | Office 3 | Rec 2'x4' Troffer | F32T84L | 112 | 3 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 3 | |
| 181 | Main | Admin Open Area | Rec 2'x4' Troffer | F32T84L | 112 | 10 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 10 | |
| 182 | Main | Office 4 | Rec 2'x4' Troffer | F32T84L | 112 | 2 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 2 | |
| 183 | Main | Office 5 | Rec 2'x4' Troffer | F32T84L | 112 | 3 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 3 | |
| 184 | Main | Office (3x Combined) | Rec 2'x4' Troffer | F32T84L | 112 | 6 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 6 | |
| 185 | Main | Office (6x Combined) | Rec 2'x4' Troffer | F32T84L | 112 | 12 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 12 | |
| 186 | Main | Cubicle Space | Rec 2'x4' Troffer | F32T84L | 112 | 12 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 12 | |
| 187 | Main | Storage (1) | Rec 2'x4' Troffer | F32T84L | 112 | 2 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 2 | |
| 188 | Main | Open Area (4) | Rec 2'x4' Troffer | F32T84L | 112 | 8 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 8 | |
| 189 | Main | Breakroom | Rec 2'x4' Troffer | F32T84L | 112 | 6 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 6 | |
| 190 | Main | Open Office (2) | Rec 2'x4' Troffer | F32T84L | 112 | 30 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 30 | |
| 191 | Main | Conference Rm (2) | Rec 2'x4' Troffer | F32T84L | 112 | 6 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 6 | |
| 192 | Main | Offices (1) (2x Combined) | Rec 2'x4' Troffer | F32T84L | 112 | 2 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 2 | |



Detailed Lighting Inventory - San Bernardino County - Sheriff Headquarters

| Cou | nty of S | San Bernardino: Sherif | f Headquarters: In | terior Ligh | ting | | | | | | |
|-----|----------|--------------------------------|---------------------|----------------|---------------|---------------|-------------------------|------------------------------------|---------------------------------------|----------------|----------------|
| | Ge | neral Information | Exist | ing Fixture D | ata | | | | Proposed Fixture Data | | |
| # | Building | Room/Area | Fixture Type | Lighting (Pre) | Pre- Watts | Pre # Fixt | Lamps per Fixture | Lighting (Post) | Recommended Make: Model # | Post- Watts | Post # Fixt |
| 193 | Main | Offices (2) (2x Combined) | Rec 2'x4' Troffer | F32T84L | 112 | 3 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 3 |
| 194 | Main | Office (28) | Rec 2'x4' Troffer | F32T84L | 112 | 6 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 6 |
| 195 | Main | Server Rm | Rec 2'x4' Troffer | F32T84L | 112 | 6 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 6 |
| 196 | Main | Break Rm (2) | Rec 2'x4' Troffer | F32T84L | 112 | 3 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 3 |
| 197 | Main | Empty Rm | Rec 2'x4' Troffer | F32T84L | 112 | 4 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 4 |
| 198 | Main | First Aid | Rec 2'x4' Troffer | F32T84L | 112 | 3 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 3 |
| 199 | Main | First Aid 2 | Rec 2'x4' Troffer | F32T84L | 112 | 2 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 2 |
| 200 | Main | Men's Locker Rm | Rec 2'x4' Troffer | F32T84L | 112 | 8 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 8 |
| 201 | Main | Women's Locker Rm | Rec 2'x4' Troffer | F32T84L | 112 | 8 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 8 |
| 202 | Main | Gym | Rec 2'x4' Troffer | F32T84L | 112 | 14 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 14 |
| 203 | Main | Intel Dept Conference Rm | Rec 2'x4' Troffer | F32T84L | 112 | 4 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 4 |
| 204 | Main | Classroom B | Rec 2'x4' Troffer | F32T84L | 112 | 14 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 14 |
| 205 | Main | Office (29) | Rec 2'x4' Troffer | F32T84L | 112 | 2 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 2 |
| 206 | Main | Restroom | Surface Mount 1'x4' | F32T84L | 112 | 1 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 1 |
| 207 | Main | Open Area (5) | Rec 2'x4' Troffer | F32T84L | 112 | 10 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 10 |
| 208 | Main | Offices (3) (2x Combined) | Rec 2'x4' Troffer | F32T84L | 112 | 4 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 4 |
| 209 | Main | Offices | Surface Mount 1'x4' | F32T84L | 112 | 1 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 1 |
| 210 | Main | Break Rm (3) | Rec 2'x4' Troffer | F32T84L | 112 | 4 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 4 |
| 211 | Main | Offices (1) (5x Combined) | Rec 2'x4' Troffer | F32T84L | 112 | 10 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 10 |
| 212 | Main | File Rm | Rec 2'x4' Troffer | F32T84L | 112 | 24 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 24 |
| 213 | Main | Storage (2) | Rec 2'x4' Troffer | F32T84L | 112 | 3 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 3 |
| 214 | Main | Storage (3) | Rec 2'x4' Troffer | F32T84L | 112 | 3 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 3 |
| 215 | Main | Executive Offices (1) | Rec 2'x4' Troffer | F32T84L | 112 | 42 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 42 |
| 216 | Main | Deputy Chief | Rec 2'x4' Troffer | F32T84L | 112 | 5 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 5 |
| 217 | Main | Office (30) | Rec 2'x4' Troffer | F32T84L | 112 | 2 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 2 |
| 218 | Main | Executive Offices (2) | Rec 2'x4' Troffer | F32T84L | 112 | 3 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 3 |
| 219 | Main | Office LT | Rec 2'x4' Troffer | F32T84L | 112 | 2 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 2 |
| 220 | Main | Deputy Chief (1) (2x Combined) | Rec 2'x4' Troffer | F32T84L | 112 | 6 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 6 |
| 221 | Main | Locker Rm | Rec 2'x4' Troffer | F32T84L | 112 | 2 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 2 |
| 222 | Main | Deputy | Rec 2'x4' Troffer | F32T84L | 112 | 3 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 3 |
| 223 | Main | Offices (2) (5x Combined) | Rec 2'x4' Troffer | F32T84L | 112 | 10 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 10 |
| 224 | Main | Executive Conference Rm | Rec 2'x4' Troffer | F32T84L | 112 | 12 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 12 |



Detailed Lighting Inventory - San Bernardino County - Sheriff Headquarters

| Cou | nty of S | San Bernardino: Sheriff | Headquarters: In | terior Ligh | ting | | | | | | |
|-----|----------|--------------------------------|-------------------|----------------|---------------|---------------|-------------------------|------------------------------------|--|----------------|--------|
| | Gei | neral Information | Exist | ing Fixture D | ata | | | | Proposed Fixture Data | | |
| # | Building | Room/Area | Fixture Type | Lighting (Pre) | Pre- Watts | Pre # Fixt | Lamps per Fixture | Lighting (Post) | Recommended Make: Model # | Post- Watts | Post # |
| 225 | Main | Copy Rm | Rec 2'x4' Troffer | F32T84L | 112 | 2 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 2 |
| 226 | Main | Storage (4) | Rec 2'x4' Troffer | F32T84L | 112 | 1 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 1 |
| 227 | Main | Conference Rm (3) | Rec 2'x4' Troffer | F32T84L | 112 | 4 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 4 |
| 228 | Main | Storage (5) | Rec 2'x4' Troffer | F32T84L | 112 | 2 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 2 |
| 229 | Main | Deputy Chief (2) (2x Combined) | Rec 2'x4' Troffer | F32T84L | 112 | 4 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 4 |
| 230 | Main | Deputy Chief (3x Combined) | Rec 2'x4' Troffer | F32T84L | 112 | 9 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 9 |
| 231 | Main | Conference Rm | Rec 2'x2' Troffer | FU31T8/6 2L | 59 | 9 | 2 | (2) LED 15-Watt 2' U-Tube & Driver | ESPEN: LB48T8U6/850/13P-AB, VE2P32MVHIPE | 30 | 9 |

| Cou | nty of S | San Bernardino: Sheriff | Headquarters: Ex | terior Ligh | nting | | | | | | |
|------|-------------|-------------------------|-----------------------------|----------------|---------------|---------------|-------------------------|--|--|----------------|-------|
| Gene | eral Inforr | mation | Exist | ing Fixture D | ata | | | | Proposed Fixture Data | | |
| # | Building | Area Served | Fixture Type | Lighting (Pre) | Pre- Watts | Pre # Fixt | Lamps per Fixture | Lighting (Post) | Recommended Make: Model # | Post- Watts | Post# |
| 232 | Main | Exterior Area | Jelly Jar | CFL 23W 1L | 23 | 4 | 1 | (1) LED 9-Watt A Lamp | NaturaLED: LED9A19/EC/81L/940 | 9 | 4 |
| 233 | Main | Exterior Area | Surface Mount 1'x1' | MH 50W | 72 | 2 | 1 | LED 20-Watt Canopy 15"x15" | Aleo: LCP-20UX/CT XE | 20 | 2 |
| 234 | Main | Exterior Area | 15' Pole Top | MH 150W | 190 | 9 | 1 | LED 34-Watt Pole Top | NaturaLED: FX15PST34SW/8CCT3/BK | 34 | 9 |
| 235 | Main | Exterior Area | Wallpack Full Cut-Off 1'x1' | MH 150W | 190 | 4 | 1 | LED 28-Watt Full-Cutoff Wallpack | NaturaLED: FXCWP60SW/CCT3/BZ-PHO | 28 | 4 |
| 236 | Main | Exterior Area | Bollard | MH 250W | 295 | 3 | 1 | (1) LED 63-Watt Retrofit Lamp Ballast Bypass | Keystone: KT-LED63PSHID-EX39-840-D /G4 | 63 | 3 |
| 237 | Main | Exterior Area | 30' Pole Arm Area | MH 250W | 295 | 7 | 1 | LED 75-Watt Pole Arm Area | NaturaLED: FXSAL75SW/8CCT3/BZ/T3 + P10453 MT-AL/PM6/BZ | 75 | 7 |



Detailed Lighting Inventory - San Bernardino County - Sheriff Training Center

| | General | Information | Fyist | ting Fixture Dat | a | | | | Proposed Fixture Data | | |
|----|------------|--------------------|------------------------------|------------------|---------------|---------------|-------------------------|--|--|----------------|----|
| # | Building | Room/Area | Fixture Type | Lighting (Pre) | Pre- Watts | Pre # Fixt | Lamps per Fixture | Lighting (Post) | Recommended Make: Model # | Post- Watts | |
| 1 | Main | Lobby/Entry | Recessed 6"x6" | CFT 26W 1L | 33 | 12 | 1 | (1) LED 8-Watt 2-pin Lamp Ballast Bypass | Keystone: KT-LED82P-H-840-D-DP | 8 | 12 |
| 2 | Locker Rm | Men's Locker Rm | Surface Mount Round 10" | CFT 9W 2L | 23 | 1 | 2 | (2) LED 6-Watt 2-pin Lamp Ballast Bypass | Keystone: KT-LED62P-H-840-D | 12 | 1 |
| 3 | Locker Rm | Women's Locker Rm | Surface Mount Round 10" | CFT 9W 2L | 23 | 1 | 2 | (2) LED 6-Watt 2-pin Lamp Ballast Bypass | Keystone: KT-LED62P-H-840-D | 12 | 1 |
| 4 | Bldg. E | Class Rm E | Can Rec. 6" | INC 60W 1L | 60 | 9 | 1 | LED 9-Watt 6" Downlight Retrofit | ESPEN: VEKR6D/8T/13W-10V | 9 | 9 |
| 5 | Bldg. E | Class Rm F | Can Rec. 6" | INC 60W 1L | 60 | 9 | 1 | LED 9-Watt 6" Downlight Retrofit | ESPEN: VEKR6D/8T/13W-10V | 9 | 9 |
| 6 | Main | Hall by EO Office | Rec. 2x2 Troffer | F17T82L | 33 | 6 | 2 | (2) LED 9-Watt 2' Tubes & Ballast | ESPEN: L24T8/840/12P-EB , VE2P32MVHIPE | 20 | 6 |
| 7 | Locker Rm | Men's Locker Rm | Vanity | F17T82L | 33 | 12 | 2 | (2) LED 9-Watt 2' Tubes & Ballast | ESPEN: L24T8/840/12P-EB , VE2P32MVHIPE | 20 | 12 |
| 8 | Locker Rm | Women's Locker Rm | Vanity | F17T82L | 33 | 4 | 2 | (2) LED 9-Watt 2' Tubes & Ballast | ESPEN: L24T8/840/12P-EB , VE2P32MVHIPE | 20 | 4 |
| 9 | Main | Copy Rm | Rec. 2'x4' Troffer | F32T82L | 59 | 3 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 3 |
| 10 | Main | Capt. Office | Rec. 2'x4' Troffer | F32T82L | 59 | 4 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 4 |
| 11 | Main | LT Office (a) | Rec. 2'x4' Troffer | F32T82L | 59 | 1 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 1 |
| 12 | Main | LT Office (b) | Rec. 2'x4' Troffer | F32T82L | 59 | 1 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 1 |
| 13 | Main | Team Leader Office | Rec. 2'x4' Troffer | F32T82L | 59 | 1 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 1 |
| 14 | Main | Sergeant Office | Rec. 2'x4' Troffer | F32T82L | 59 | 1 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 1 |
| 15 | Main | Classroom B | Rec. 2'x4' Troffer | F32T82L | 59 | 24 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 24 |
| 16 | Advanced O | All Areas Combined | Rec. 2'x4' Troffer | F32T82L | 59 | 3 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 3 |
| 17 | Locker Rm | Locker Rm Entry | Surface Mount 4' | F32T82L | 59 | 2 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 2 |
| 18 | Locker Rm | Kitchen | Surface Mount 4' | F32T82L | 59 | 3 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 3 |
| 19 | Locker Rm | Men's Locker Rm | Surface Mount 4' | F32T82L | 59 | 7 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 7 |
| 20 | Locker Rm | Women's Locker Rm | Surface Mount 4' Box | F32T82L | 59 | 10 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 10 |
| 21 | Locker Rm | Women's Locker Rm | Surface Mount Vapor Proof 4' | F32T82L | 59 | 1 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 1 |
| 22 | Locker Rm | Women's Locker Rm | Vanity | F32T82L | 59 | 4 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 4 |
| 23 | Bldg. E | Class Rm G | Surface Mount 4' | F32T82L | 59 | 21 | 2 | (2) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 24 | 21 |
| 24 | Bldg. E | Equipment Rm | Rec. 2'x4' Troffer | F32T83L | 89 | 4 | 3 | (3) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE3P32MVHIPE | 36 | 4 |
| 25 | Advanced O | Areas Combined | Rec. 2'x4' Troffer | F32T84L | 112 | 51 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 51 |
| 26 | Bldg. E | Class Rm E | Rec. 2'x4' Troffer | F32T84L | 112 | 18 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 18 |
| 27 | Bldg. E | Class Rm F | Rec. 2'x4' Troffer | F32T84L | 112 | 18 | 4 | (4) LED 12-Watt 4' Tubes & Ballast | ESPEN: L48T8/840/12P-EB, VE2P32MVHIPE | 48 | 18 |
| 28 | Advanced O | Areas Combined | Rec. 2'x2' Troffer | FU31T8/6 2L | 59 | 1 | 2 | (2) LED 15-Watt 2' U-Tube & Driver | ESPEN: LB48T8U6/850/13P-AB, VE2P32MVHIPE | 30 | 1 |
| 29 | Locker Rm | Fire Riser Rm | Strip 8' | F96T122L | 123 | 1 | 2 | (2) LED 24-Watt 8' Tubes & Ballast | ESPEN: L96T8/850/24G-EB, VE259MVHIP | 48 | 1 |



Detailed Lighting Inventory - San Bernardino County - Sheriff Training Center

| Cou | nty of S | an Bernardino | : Sheriff Training C | enter: Exteri | or Li | ghtin | g | | | | |
|------|-------------|---------------|-----------------------|-----------------|---------------|---------------|-------------------------|--|--|----------------|--------|
| Gene | eral Inforr | mation | Exist | ing Fixture Dat | а | | | | Proposed Fixture Data | | |
| # | Building | Area Served | Fixture Type | Lighting (Pre) | Pre- Watts | Pre # Fixt | Lamps per Fixture | Lighting (Post) | Recommended Make: Model # | Post- Watts | Post # |
| 30 | Main | Exterior Area | Vandal | CFT 18W 1L | 24 | 7 | 1 | LED 15-Watt Full-Cutoff Wallpack | NaturaLED: LED-FXSWP15/850/DB | 15 | 7 |
| 31 | Main | Exterior Area | Recessed 6"x6" | CFT 26W 1L | 33 | 7 | 1 | (1) LED 8-Watt 2-pin Lamp Ballast Bypass | Keystone: KT-LED82P-H-840-D-DP | 8 | 7 |
| 32 | Main | Exterior Area | Recessed 1'x1' Canopy | CFT 26W 1L | 33 | 18 | 1 | (1) LED 8-Watt 2-pin Lamp Ballast Bypass | Keystone: KT-LED82P-H-840-D-DP | 8 | 18 |
| 33 | Main | Exterior Area | Security Flood 2-Head | INC 65W PAR 2L | 130 | 2 | 2 | LED 25-Watt Security 2-Head w/ Photocell | Lithonia: HGX LED 2RH ALO 40K 120 PE | 25 | 2 |
| 34 | Bldg. E | Exterior Area | Mini Wallpack | MH 50W | 72 | 6 | 1 | LED 15-Watt Full-Cutoff Wallpack | NaturaLED: LED-FXSWP15/850/DB | 15 | 6 |
| 35 | Advanced Of | Exterior Area | Mini Wallpack | MH 70W | 95 | 4 | 1 | LED 15-Watt Full-Cutoff Wallpack | NaturaLED: LED-FXSWP15/850/DB | 15 | 4 |
| 36 | Main | Parking Area | 15' Pole Arm Area | MH 250W | 295 | 10 | 1 | LED 75-Watt Pole Arm Area | NaturaLED: FXSAL75SW/8CCT3/BZ/T3 + P10453 MT-AL/PM6/BZ | 75 | 10 |



| Cou | inty of San Bernardin | o: WVADC - Intake: | Interior Lig | ghting | | | | | | | |
|-----|---------------------------|------------------------------|--------------|--------------------|---------------|--------------|-------------------------|---|---------------------------------|----------------|----------------|
| | General Info | mation | | Existing Fixture D | ata | | | F | Proposed Fixture Data | | |
| # | Building | Room/Area | Fixture Type | Lighting (Pre) | Pre- Watts | Pre# Fixt | Lamps per Fixture | Lighting (Post) | Recommended Make: Model # | Post- Watts | Post # Fixt |
| 1 | Admin Level 1 | Exterior Door Rm 1019 | (Type CC1) | CFM 32W 1L | 36.8 | 1 | 1 | (1) LED 16-Watt 2-pin Lamp Ballast Bypass | Keystone: KT-LED162P-H-840-D-DP | 16 | 1 |
| 2 | Admin Level 1 | Exterior Door Rm 1017 | (Type CC1) | CFM 32W 1L | 36.8 | 1 | 1 | (1) LED 16-Watt 2-pin Lamp Ballast Bypass | Keystone: KT-LED162P-H-840-D-DP | 16 | 1 |
| 3 | Admin Level 1 | Exterior Door Stairwell 1011 | (Type CC2) | CFM 32W 1L | 36.8 | 1 | 1 | (1) LED 16-Watt 2-pin Lamp Ballast Bypass | Keystone: KT-LED162P-H-840-D-DP | 16 | 1 |
| 4 | Admin Level 1 | Exterior Door Stairwell 1028 | (Type CC2) | CFM 32W 1L | 36.8 | 1 | 1 | (1) LED 16-Watt 2-pin Lamp Ballast Bypass | Keystone: KT-LED162P-H-840-D-DP | 16 | 1 |
| 5 | Admin Level 1 | Area (Combined) | (Type R) | CFM 32W 1L | 36.8 | 14 | 1 | (1) LED 16-Watt 2-pin Lamp Ballast Bypass | Keystone: KT-LED162P-H-840-D-DP | 16 | 14 |
| 6 | Admin Level 1 | Rm 1017 Closet | (Type FF) | CFM 32W 1L | 36.8 | 1 | 1 | (1) LED 16-Watt 2-pin Lamp Ballast Bypass | Keystone: KT-LED162P-H-840-D-DP | 16 | 1 |
| 7 | Admin Level 1 | Area (Combined) | (Type P) | CFM 32W 1L | 36.8 | 10 | 1 | (1) LED 16-Watt 2-pin Lamp Ballast Bypass | Keystone: KT-LED162P-H-840-D-DP | 16 | 10 |
| 8 | Admin Level 1 | Area (Combined) | (Type Q) | CFM 32W 1L | 36.8 | 13 | 1 | (1) LED 16-Watt 2-pin Lamp Ballast Bypass | Keystone: KT-LED162P-H-840-D-DP | 16 | 13 |
| 9 | Admin Level 1 | Area (Combined) | (Type Q3) | CFM 32W 1L | 36.8 | 9 | 1 | (1) LED 16-Watt 2-pin Lamp Ballast Bypass | Keystone: KT-LED162P-H-840-D-DP | 16 | 9 |
| 10 | Video Arraignment Level 1 | Exterior Door Rm 1034 | (Type CC2) | CFM 32W 1L | 36.8 | 1 | 1 | (1) LED 16-Watt 2-pin Lamp Ballast Bypass | Keystone: KT-LED162P-H-840-D-DP | 16 | 1 |
| 11 | Video Arraignment Level 1 | Closets (Combined) | (Type FF) | CFM 32W 1L | 36.8 | 2 | 1 | (1) LED 16-Watt 2-pin Lamp Ballast Bypass | Keystone: KT-LED162P-H-840-D-DP | 16 | 2 |
| 12 | Video Arraignment Level 1 | Restrooms (Combined) | (Type R) | CFM 32W 1L | 36.8 | 2 | 1 | (1) LED 16-Watt 2-pin Lamp Ballast Bypass | Keystone: KT-LED162P-H-840-D-DP | 16 | 2 |
| 13 | Intake South Level 1 | Area (Combined) | (Type FF) | CFM 32W 1L | 36.8 | 9 | 1 | (1) LED 16-Watt 2-pin Lamp Ballast Bypass | Keystone: KT-LED162P-H-840-D-DP | 16 | 9 |
| 14 | Intake South Level 1 | Small Rm by 1080 | (Type Z) | CFM 32W 1L | 36.8 | 1 | 1 | (1) LED 16-Watt 2-pin Lamp Ballast Bypass | Keystone: KT-LED162P-H-840-D-DP | 16 | 1 |
| 15 | Intake South Level 1 | Area (Combined) | (Type R) | CFM 32W 1L | 36.8 | 29 | 1 | (1) LED 16-Watt 2-pin Lamp Ballast Bypass | Keystone: KT-LED162P-H-840-D-DP | 16 | 29 |
| 16 | Intake North Level 1 | Area (Combined) | (Type R) | CFM 32W 1L | 36.8 | 11 | 1 | (1) LED 16-Watt 2-pin Lamp Ballast Bypass | Keystone: KT-LED162P-H-840-D-DP | 16 | 11 |
| 17 | Intake North Level 1 | Area (Combined) | (Type FF) | CFM 32W 1L | 36.8 | 7 | 1 | (1) LED 16-Watt 2-pin Lamp Ballast Bypass | Keystone: KT-LED162P-H-840-D-DP | 16 | 7 |
| 18 | Intake North Level 1 | Area (Combined) | (Type CC) | CFM 32W 1L | 36.8 | 2 | 1 | (1) LED 16-Watt 2-pin Lamp Ballast Bypass | Keystone: KT-LED162P-H-840-D-DP | 16 | 2 |
| 19 | Intake North Level 1 | Area (Combined) | (Type Z) | CFM 32W 1L | 36.8 | 5 | 1 | (1) LED 16-Watt 2-pin Lamp Ballast Bypass | Keystone: KT-LED162P-H-840-D-DP | 16 | 5 |
| 20 | Transport Level 1 | Area (Combined) | (Type FF) | CFM 32W 1L | 36.8 | 4 | 1 | (1) LED 16-Watt 2-pin Lamp Ballast Bypass | Keystone: KT-LED162P-H-840-D-DP | 16 | 4 |
| 21 | Services South Level 1 | Area (Combined) | (Type MM) | CFM 32W 1L | 36.8 | 2 | 1 | (1) LED 16-Watt 2-pin Lamp Ballast Bypass | Keystone: KT-LED162P-H-840-D-DP | 16 | 2 |
| 22 | Services South Level 1 | Closet Between 1264 / 1263 | (Type FF) | CFM 32W 1L | 36.8 | 1 | 1 | (1) LED 16-Watt 2-pin Lamp Ballast Bypass | Keystone: KT-LED162P-H-840-D-DP | 16 | 1 |
| 23 | Services South Level 1 | Area (Combined) | (Type R) | CFM 32W 1L | 36.8 | 3 | 1 | (1) LED 16-Watt 2-pin Lamp Ballast Bypass | Keystone: KT-LED162P-H-840-D-DP | 16 | 3 |
| 24 | Services North Level 1 | Area (Combined) | (Type MM) | CFM 32W 1L | 36.8 | 11 | 1 | (1) LED 16-Watt 2-pin Lamp Ballast Bypass | Keystone: KT-LED162P-H-840-D-DP | 16 | 11 |
| 25 | Services North Level 1 | Area (Combined) | (Type DD3) | CFM 32W 1L | 36.8 | 19 | 1 | (1) LED 16-Watt 2-pin Lamp Ballast Bypass | Keystone: KT-LED162P-H-840-D-DP | 16 | 19 |
| 26 | Services North Level 1 | Area (Combined) | (Type CC) | CFM 32W 1L | 36.8 | 1 | 1 | (1) LED 16-Watt 2-pin Lamp Ballast Bypass | Keystone: KT-LED162P-H-840-D-DP | 16 | 1 |
| 27 | Services North Level 1 | Area (Combined) | (Type DD2) | CFM 32W 1L | 36.8 | 11 | 1 | (1) LED 16-Watt 2-pin Lamp Ballast Bypass | Keystone: KT-LED162P-H-840-D-DP | 16 | 11 |
| 28 | Services North Level 1 | Area (Combined) | (Type R) | CFM 32W 1L | 36.8 | 16 | 1 | (1) LED 16-Watt 2-pin Lamp Ballast Bypass | Keystone: KT-LED162P-H-840-D-DP | 16 | 16 |
| 29 | Services North Level 1 | Area (Combined) | (Type Q1) | CFM 32W 1L | 36.8 | 8 | 1 | (1) LED 16-Watt 2-pin Lamp Ballast Bypass | Keystone: KT-LED162P-H-840-D-DP | 16 | 8 |
| 30 | Admin Level 2 | Area (Combined) | (Type Q) | CFM 32W 1L | 36.8 | 8 | 1 | (1) LED 16-Watt 2-pin Lamp Ballast Bypass | Keystone: KT-LED162P-H-840-D-DP | 16 | 8 |
| 31 | Admin Level 2 | Area (Combined) | (Type Q1) | CFM 32W 1L | 36.8 | 14 | 1 | (1) LED 16-Watt 2-pin Lamp Ballast Bypass | Keystone: KT-LED162P-H-840-D-DP | 16 | 14 |
| 32 | Admin Level 2 | Stairwells (Combined) | (Type Q2E) | CFM 32W 1L | 36.8 | 7 | 1 | (1) LED 16-Watt 2-pin Lamp Ballast Bypass | Keystone: KT-LED162P-H-840-D-DP | 16 | 7 |
| 33 | Admin Level 2 | Area (Combined) | (Type Q3) | CFM 32W 1L | 36.8 | 11 | 1 | (1) LED 16-Watt 2-pin Lamp Ballast Bypass | Keystone: KT-LED162P-H-840-D-DP | 16 | 11 |
| 34 | Admin Level 2 | Area (Combined) | (Type R) | CFM 32W 1L | 36.8 | 22 | 1 | (1) LED 16-Watt 2-pin Lamp Ballast Bypass | Keystone: KT-LED162P-H-840-D-DP | 16 | 22 |
| 35 | Admin Level 2 | Area (Combined) | (Type RR) | CFM 32W 1L | 36.8 | 11 | 1 | (1) LED 16-Watt 2-pin Lamp Ballast Bypass | Keystone: KT-LED162P-H-840-D-DP | 16 | 11 |
| 36 | Admin Level 2 | Closets (Combined) | (Type FF) | CFM 32W 1L | 36.8 | 2 | 1 | (1) LED 16-Watt 2-pin Lamp Ballast Bypass | Keystone: KT-LED162P-H-840-D-DP | 16 | 2 |



| Cou | inty of San Bernardino: WVA | ADC - Intake: In | nterior Lig | ghting | | | | | | | |
|-----|---------------------------------------|--------------------------|--------------|------------------------------|---------------|--------------|-------------------------|--|--|----------------|-----|
| | General Information | | | Existing Fixture Da | ıta | | | F | Proposed Fixture Data | | |
| # | Building | Room/Area F | Fixture Type | Lighting (Pre) | Pre- Watts | Pre# Fixt | Lamps per Fixture | Lighting (Post) | Recommended Make: Model # | Post- Watts | |
| 37 | Admin Level 2 Area (Com | nbined) (1 | (Type HH1) | CFM 32W 1L | 36.8 | 4 | 1 | (1) LED 16-Watt 2-pin Lamp Ballast Bypass | Keystone: KT-LED162P-H-840-D-DP | 16 | 4 |
| 38 | Line-Up / Crime Lab Level 2 Area (Com | nbined) (1 | (Type R) | CFM 32W 1L | 36.8 | 10 | 1 | (1) LED 16-Watt 2-pin Lamp Ballast Bypass | Keystone: KT-LED162P-H-840-D-DP | 16 | 10 |
| 39 | Line-Up / Crime Lab Level 2 Area (Com | nbined) (1 | (Type PP) | CFM 32W 1L | 36.8 | 1 | 1 | (1) LED 16-Watt 2-pin Lamp Ballast Bypass | Keystone: KT-LED162P-H-840-D-DP | 16 | 1 |
| 40 | Line-Up / Crime Lab Level 2 Area (Com | nbined) (1 | (Type Q1) | CFM 32W 1L | 36.8 | 6 | 1 | (1) LED 16-Watt 2-pin Lamp Ballast Bypass | Keystone: KT-LED162P-H-840-D-DP | 16 | 6 |
| 41 | Line-Up / Crime Lab Level 2 Area (Com | nbined) (1 | (Type Q2) | CFM 32W 1L | 36.8 | 2 | 1 | (1) LED 16-Watt 2-pin Lamp Ballast Bypass | Keystone: KT-LED162P-H-840-D-DP | 16 | 2 |
| 42 | Line-Up / Crime Lab Level 2 Area (Com | nbined) (1 | (Type KK) | CFM 32W 1L | 36.8 | 5 | 1 | (1) LED 16-Watt 2-pin Lamp Ballast Bypass | Keystone: KT-LED162P-H-840-D-DP | 16 | 5 |
| 43 | Property North Level 2 Area (Com | nbined) (1 | (Type Q) | CFM 32W 1L | 36.8 | 8 | 1 | (1) LED 16-Watt 2-pin Lamp Ballast Bypass | Keystone: KT-LED162P-H-840-D-DP | 16 | 8 |
| 44 | Property North Level 2 Area (Com | nbined) (1 | (Type R) | CFM 32W 1L | 36.8 | 1 | 1 | (1) LED 16-Watt 2-pin Lamp Ballast Bypass | Keystone: KT-LED162P-H-840-D-DP | 16 | 1 |
| 45 | Visiting Level 2 Exterior Ba | alcony (1 | (Type HH2) | CFM 32W 1L | 36.8 | 4 | 1 | (1) LED 16-Watt 2-pin Lamp Ballast Bypass | Keystone: KT-LED162P-H-840-D-DP | 16 | 4 |
| 46 | Visiting Level 2 Area (Com | nbined) (1 | (Type R) | CFM 32W 1L | 36.8 | 9 | 1 | (1) LED 16-Watt 2-pin Lamp Ballast Bypass | Keystone: KT-LED162P-H-840-D-DP | 16 | 9 |
| 47 | Visiting Level 2 Area (Com | nbined) (1 | (Type CC2) | CFM 32W 1L | 36.8 | 1 | 1 | (1) LED 16-Watt 2-pin Lamp Ballast Bypass | Keystone: KT-LED162P-H-840-D-DP | 16 | 1 |
| 48 | Visiting Level 2 Area (Com | nbined) (1 | (Type Q) | CFM 32W 1L | 36.8 | 12 | 1 | (1) LED 16-Watt 2-pin Lamp Ballast Bypass | Keystone: KT-LED162P-H-840-D-DP | 16 | 12 |
| 49 | Typical Housing Level 1 Area (Com | nbined) (1 | (Type FF) | CFM 32W 1L | 36.8 | 105 | 1 | (1) LED 16-Watt 2-pin Lamp Ballast Bypass | Keystone: KT-LED162P-H-840-D-DP | 16 | 105 |
| 50 | Typical Housing Level 1 Area (Com | nbined) (1 | (Type CC) | CFM 32W 1L | 36.8 | 15 | 1 | (1) LED 16-Watt 2-pin Lamp Ballast Bypass | Keystone: KT-LED162P-H-840-D-DP | 16 | 15 |
| 51 | Typical Housing Mezzanine Area (Com | nbined) (1 | (Type FF) | CFM 32W 1L | 36.8 | 60 | 1 | (1) LED 16-Watt 2-pin Lamp Ballast Bypass | Keystone: KT-LED162P-H-840-D-DP | 16 | 60 |
| 52 | Typical Housing Mezzanine Area (Com | nbined) (1 | (Type DD) | CFM 32W 1L | 36.8 | 165 | 1 | (1) LED 16-Watt 2-pin Lamp Ballast Bypass | Keystone: KT-LED162P-H-840-D-DP | 16 | 165 |
| 53 | Typical Housing Mezzanine Area (Com | nbined) (1 | (Type MM) | CFM 32W 1L | 36.8 | 60 | 1 | (1) LED 16-Watt 2-pin Lamp Ballast Bypass | Keystone: KT-LED162P-H-840-D-DP | 16 | 60 |
| 54 | Typical Housing Mezzanine Area (Com | nbined) (1 | (Type MM1) | CFM 32W 1L | 36.8 | 60 | 1 | (1) LED 16-Watt 2-pin Lamp Ballast Bypass | Keystone: KT-LED162P-H-840-D-DP | 16 | 60 |
| 55 | Typical Housing Mezzanine Area (Com | nbined) (1 | (Type Z) | CFM 32W 1L | 36.8 | 15 | 1 | (1) LED 16-Watt 2-pin Lamp Ballast Bypass | Keystone: KT-LED162P-H-840-D-DP | 16 | 15 |
| 56 | Atypical Housing Segments Units 9, 8, | . 10: Segment G Lower (1 | (Type FF) | CFM 32W 1L | 36.8 | 12 | 1 | (1) LED 16-Watt 2-pin Lamp Ballast Bypass | Keystone: KT-LED162P-H-840-D-DP | 16 | 12 |
| 57 | Atypical Housing Segments Unit I: Seg | ment G: Lower (1 | (Type FF) | CFM 32W 1L | 36.8 | 1 | 1 | (1) LED 16-Watt 2-pin Lamp Ballast Bypass | Keystone: KT-LED162P-H-840-D-DP | 16 | 1 |
| 58 | Atypical Housing Segments Unit M: Se | egment G: Lower (1 | (Type CC) | CFM 32W 1L | 36.8 | 1 | 1 | (1) LED 16-Watt 2-pin Lamp Ballast Bypass | Keystone: KT-LED162P-H-840-D-DP | 16 | 1 |
| 59 | Atypical Housing Segments Unit M: Se | egment G: Lower (1 | (Type FF) | CFM 32W 1L | 36.8 | 2 | 1 | (1) LED 16-Watt 2-pin Lamp Ballast Bypass | Keystone: KT-LED162P-H-840-D-DP | 16 | 2 |
| 60 | Infirmary Area (Com | nbined) (1 | (Type PP) | CFM 32W 1L | 36.8 | 1 | 1 | (1) LED 16-Watt 2-pin Lamp Ballast Bypass | Keystone: KT-LED162P-H-840-D-DP | 16 | 1 |
| 61 | Infirmary Area (Com | nbined) (1 | (Type CC) | CFM 32W 1L | 36.8 | 6 | 1 | (1) LED 16-Watt 2-pin Lamp Ballast Bypass | Keystone: KT-LED162P-H-840-D-DP | 16 | 6 |
| 62 | Infirmary Area (Com | nbined) (1 | (Type Z) | CFM 32W 1L | 36.8 | 4 | 1 | (1) LED 16-Watt 2-pin Lamp Ballast Bypass | Keystone: KT-LED162P-H-840-D-DP | 16 | 4 |
| 63 | Infirmary Area (Com | nbined) (1 | (Type FF) | CFM 32W 1L | 36.8 | 1 | 1 | (1) LED 16-Watt 2-pin Lamp Ballast Bypass | Keystone: KT-LED162P-H-840-D-DP | 16 | 1 |
| 64 | Video Arraignment Level 1 Restrooms | s (Combined) (1 | (Type S2) | CFT 40W 2L Long + CFT 13W 1L | 107 | 4 | 3 | (2) LED 17-Watt PL-L Lamps + (1) LED 8-Watt 2-pin Lamp | Keystone: KT-LED17PLL-22GC-840-D + KT-LED62P-O-840-D | 42 | 4 |
| 65 | Intake South Level 1 Area (Com | nbined) (1 | (Type S2) | CFT 40W 2L Long + CFT 13W 1L | 107 | 13 | 3 | (2) LED 17-Watt PL-L Lamps + (1) LED 8-Watt 2-pin Lamp | Keystone: KT-LED17PLL-22GC-840-D + KT-LED62P-O-840-D | 42 | 13 |
| 66 | Intake South Level 1 Area (Com | nbined) (1 | (Type S3) | CFT 40W 2L Long + CFT 13W 1L | 107 | 18 | 3 | (2) LED 17-Watt PL-L Lamps + (1) LED 8-Watt 2-pin Lamp | Keystone: KT-LED17PLL-22GC-840-D + KT-LED62P-O-840-D | 42 | 18 |
| 67 | Intake South Level 1 Area (Com | nbined) (1 | (Type T3) | CFT 40W 2L Long + CFT 13W 1L | 107 | 2 | 3 | (2) LED 17-Watt PL-L Lamps + (1) LED 8-Watt 2-pin Lamp | Keystone: KT-LED17PLL-22GC-840-D + KT-LED62P-O-840-D | 42 | 2 |
| 68 | Intake North Level 1 Area (Com | nbined) (1 | (Type T3) | CFT 40W 2L Long + CFT 13W 1L | 107 | 2 | 3 | (2) LED 17-Watt PL-L Lamps + (1) LED 8-Watt 2-pin Lamp | Keystone: KT-LED17PLL-22GC-840-D + KT-LED62P-O-840-D | 42 | 2 |
| 69 | Intake North Level 1 Area (Com | nbined) (1 | (Type S) | CFT 40W 2L Long + CFT 13W 1L | 107 | 2 | 3 | (2) LED 17-Watt PL-L Lamps + (1) LED 8-Watt 2-pin Lamp | Keystone: KT-LED17PLL-22GC-840-D + KT-LED62P-O-840-D | 42 | 2 |
| 70 | Intake North Level 1 Area (Com | nbined) (1 | (Type S2) | CFT 40W 2L Long + CFT 13W 1L | 107 | 10 | 3 | (2) LED 17-Watt PL-L Lamps + (1) LED 8-Watt 2-pin Lamp | Keystone: KT-LED17PLL-22GC-840-D + KT-LED62P-O-840-D | 42 | 10 |
| 71 | Intake North Level 1 Area (Com | nbined) (1 | (Type S3) | CFT 40W 2L Long + CFT 13W 1L | 107 | 4 | 3 | (2) LED 17-Watt PL-L Lamps + (1) LED 8-Watt 2-pin Lamp | Keystone: KT-LED17PLL-22GC-840-D + KT-LED62P-O-840-D | 42 | 4 |
| 72 | Transport Level 1 Area (Com | nbined) (1 | (Type S) | CFT 40W 2L Long + CFT 13W 1L | 107 | 7 | 3 | (2) LED 17-Watt PL-L Lamps + (1) LED 8-Watt 2-pin Lamp | Keystone: KT-LED17PLL-22GC-840-D + KT-LED62P-O-840-D | 42 | 7 |



| Cou | inty of San Bernardino | : WVADC - Intake: | Interior Li | ghting | | | | | | | |
|-----|-----------------------------------|---------------------------------|--------------|------------------------------|---------------|---------------|-------------------------|--|--|----------------|----------------|
| | General Inforn | nation | | Existing Fixture Da | ata | | | F | Proposed Fixture Data | | |
| # | Building | Room/Area | Fixture Type | Lighting (Pre) | Pre- Watts | Pre # Fixt | Lamps per Fixture | Lighting (Post) | Recommended Make: Model # | Post- Watts | Post # Fixt |
| 73 | Line-Up / Crime Lab Level 2 | Area (Combined) | (Type S2) | CFT 40W 2L Long + CFT 13W 1L | 107 | 3 | 3 | (2) LED 17-Watt PL-L Lamps + (1) LED 8-Watt 2-pin Lamp | Keystone: KT-LED17PLL-22GC-840-D + KT-LED62P-O-840-D | 42 | 3 |
| 74 | Line-Up / Crime Lab Level 2 | Area (Combined) | (Type S3) | CFT 40W 2L Long + CFT 13W 1L | 107 | 2 | 3 | (2) LED 17-Watt PL-L Lamps + (1) LED 8-Watt 2-pin Lamp | Keystone: KT-LED17PLL-22GC-840-D + KT-LED62P-O-840-D | 42 | 2 |
| 75 | Property North Level 2 | Area (Combined) | (Type S2) | CFT 40W 2L Long + CFT 13W 1L | 107 | 6 | 3 | (2) LED 17-Watt PL-L Lamps + (1) LED 8-Watt 2-pin Lamp | Keystone: KT-LED17PLL-22GC-840-D + KT-LED62P-O-840-D | 42 | 6 |
| 76 | Typical Housing Level 1 | Area (Combined) | (Type T1) | CFT 40W 2L Long + CFT 13W 1L | 107 | 105 | 3 | (2) LED 17-Watt PL-L Lamps + (1) LED 8-Watt 2-pin Lamp | Keystone: KT-LED17PLL-22GC-840-D + KT-LED62P-O-840-D | 42 | 105 |
| 77 | Typical Housing Level 1 | Area (Combined) | (Type S1) | CFT 40W 2L Long + CFT 13W 1L | 107 | 720 | 3 | (2) LED 17-Watt PL-L Lamps + (1) LED 8-Watt 2-pin Lamp | Keystone: KT-LED17PLL-22GC-840-D + KT-LED62P-O-840-D | 42 | 720 |
| 78 | Typical Housing Mezzanine | Area (Combined) | (Type S1) | CFT 40W 2L Long + CFT 13W 1L | 107 | 720 | 3 | (2) LED 17-Watt PL-L Lamps + (1) LED 8-Watt 2-pin Lamp | Keystone: KT-LED17PLL-22GC-840-D + KT-LED62P-O-840-D | 42 | 720 |
| 79 | Atypical Housing Segments | Units 9, 8, 10: Segment G Lower | (Type T1) | CFT 40W 2L Long + CFT 13W 1L | 107 | 12 | 3 | (2) LED 17-Watt PL-L Lamps + (1) LED 8-Watt 2-pin Lamp | Keystone: KT-LED17PLL-22GC-840-D + KT-LED62P-O-840-D | 42 | 12 |
| 80 | Atypical Housing Segments | Unit M: Segment G: Lower | (Type T1) | CFT 40W 2L Long + CFT 13W 1L | 107 | 6 | 3 | (2) LED 17-Watt PL-L Lamps + (1) LED 8-Watt 2-pin Lamp | Keystone: KT-LED17PLL-22GC-840-D + KT-LED62P-O-840-D | 42 | 6 |
| 81 | Infirmary | Area (Combined) | (Type T1) | CFT 40W 2L Long + CFT 13W 1L | 107 | 4 | 3 | (2) LED 17-Watt PL-L Lamps + (1) LED 8-Watt 2-pin Lamp | Keystone: KT-LED17PLL-22GC-840-D + KT-LED62P-O-840-D | 42 | 4 |
| 82 | Infirmary | Area (Combined) | (Type T) | CFT 40W 2L Long + CFT 13W 1L | 107 | 24 | 3 | (2) LED 17-Watt PL-L Lamps + (1) LED 8-Watt 2-pin Lamp | Keystone: KT-LED17PLL-22GC-840-D + KT-LED62P-O-840-D | 42 | 24 |
| 83 | Corridors (Combined) | Security Fixture (Type F) | (Type F) | F32T82L | 59 | 30 | 2 | (2) LED 12-Watt 4" Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 24 | 30 |
| 84 | Corridors / Stairwells (Combined) | Area (Combined) | (Type L) | F32T82L | 59 | 60 | 2 | (2) LED 12-Watt 4" Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 24 | 60 |
| 85 | Corridors / Stairwells (Combined) | Security Fixture (Type G) | (Type G) | F32T82L | 59 | 14 | 2 | (2) LED 12-Watt 4" Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 24 | 14 |
| 86 | Admin Level 1 | Area (Combined) | (Type H) | F32T82L | 59 | 3 | 2 | (2) LED 12-Watt 4" Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 24 | 3 |
| 87 | Admin Level 1 | Area (Combined) | (Type M) | F32T82L | 59 | 5 | 2 | (2) LED 12-Watt 4' Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 24 | 5 |
| 88 | Admin Level 1 | Rm 1018 | (Type W) | F32T82L | 59 | 1 | 2 | (2) LED 12-Watt 4" Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 24 | 1 |
| 89 | Admin Level 1 | Restrooms (Combined) | (Type K) | F32T82L | 59 | 4 | 2 | (2) LED 12-Watt 4" Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 24 | 4 |
| 90 | Admin Level 1 | Rm 1024 | (Type G) | F32T82L | 59 | 3 | 2 | (2) LED 12-Watt 4" Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 24 | 3 |
| 91 | Video Arraignment Level 1 | Area (Combined) | (Type M) | F32T82L | 59 | 4 | 2 | (2) LED 12-Watt 4" Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 24 | 4 |
| 92 | Video Arraignment Level 1 | Area (Combined) | (Type L) | F32T82L | 59 | 5 | 2 | (2) LED 12-Watt 4' Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 24 | 5 |
| 93 | Video Arraignment Level 1 | Rm 1045.1 | (Type FE) | F32T82L | 59 | 1 | 2 | (2) LED 12-Watt 4' Tubes + (1x 14.5-Watt Emergency) | Keystone: KT-LED12T8-48G-8CSJ-DX2 + KT-LED14.5T8EM-48GC-8CSJ-D | 26.5 | 1 |
| 94 | Video Arraignment Level 1 | Rm 1044 | (Type F) | F32T82L | 59 | 2 | 2 | (2) LED 12-Watt 4' Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 24 | 2 |
| 95 | Intake South Level 1 | Area (Combined) | (Type W) | F32T82L | 59 | 7 | 2 | (2) LED 12-Watt 4' Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 24 | 7 |
| 96 | Intake South Level 1 | Area (Combined) | (Type L) | F32T82L | 59 | 6 | 2 | (2) LED 12-Watt 4' Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 24 | 6 |
| 97 | Intake South Level 1 | Area (Combined) | (Type B1) | F32T82L | 59 | 5 | 2 | (2) LED 12-Watt 4' Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 24 | 5 |
| 98 | Intake South Level 1 | Area (Combined) | (Type F) | F32T82L | 59 | 21 | 2 | (2) LED 12-Watt 4' Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 24 | 21 |
| 99 | Intake South Level 1 | Area (Combined) | (Type FE) | F32T82L | 59 | 3 | 2 | (2) LED 12-Watt 4' Tubes + (1x 14.5-Watt Emergency) | Keystone: KT-LED12T8-48G-8CSJ-DX2 + KT-LED14.5T8EM-48GC-8CSJ-D | 26.5 | 3 |
| 100 | Intake South Level 1 | Area (Combined) | (Type E) | F32T82L | 59 | 5 | 2 | (2) LED 12-Watt 4' Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 24 | 5 |
| 101 | Intake South Level 1 | Rm 1088 | (Type M) | F32T82L | 59 | 2 | 2 | (2) LED 12-Watt 4' Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 24 | 2 |
| 102 | Intake South Level 1 | Restrooms (Combined) | (Type H) | F32T82L | 59 | 2 | 2 | (2) LED 12-Watt 4' Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 24 | 2 |
| 103 | Intake North Level 1 | Area (Combined) | (Type F) | F32T82L | 59 | 21 | 2 | (2) LED 12-Watt 4' Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 24 | 21 |
| 104 | Intake North Level 1 | Area (Combined) | (Type FE) | F32T82L | 59 | 4 | 2 | (2) LED 12-Watt 4' Tubes + (1x 14.5-Watt Emergency) | Keystone: KT-LED12T8-48G-8CSJ-DX2 + KT-LED14.5T8EM-48GC-8CSJ-D | 26.5 | 4 |
| 105 | Intake North Level 1 | Area (Combined) | (Type H) | F32T82L | 59 | 12 | 2 | (2) LED 12-Watt 4' Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 24 | 12 |
| 106 | Intake North Level 1 | Area (Combined) | (Type Y) | F32T82L | 59 | 3 | 2 | (2) LED 12-Watt 4' Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 24 | 3 |
| 107 | Intake North Level 1 | Area (Combined) | (Type W) | F32T82L | 59 | 8 | 2 | (2) LED 12-Watt 4' Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 24 | 8 |
| 108 | Intake North Level 1 | Area (Combined) | (Type WE) | F32T82L | 59 | 2 | 2 | (2) LED 12-Watt 4' Tubes + (1x 14.5-Watt Emergency) | Keystone: KT-LED12T8-48G-8CSJ-DX2 + KT-LED14.5T8EM-48GC-8CSJ-D | 26.5 | 2 |



| Cou | nty of San Bernardin | o: WVADC - Intake: | Interior Lig | ghting | | | | | | | \neg |
|-----|-----------------------------|--------------------|--------------|--------------------|---------------|---------------|-------------------------|---|--|----------------|----------------|
| | General Infor | mation | | Existing Fixture D | ata | | | F | Proposed Fixture Data | | |
| # | Building | Room/Area | Fixture Type | Lighting (Pre) | Pre- Watts | Pre # Fixt | Lamps per Fixture | Lighting (Post) | Recommended Make: Model # | Post- Watts | Post # Fixt |
| 109 | Intake North Level 1 | Area (Combined) | (Type L) | F32T82L | 59 | 3 | 2 | (2) LED 12-Watt 4' Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 24 | 3 |
| 110 | Intake North Level 1 | Area (Combined) | (Type G) | F32T82L | 59 | 3 | 2 | (2) LED 12-Watt 4' Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 24 | 3 |
| 111 | Intake North Level 1 | Area (Combined) | (Type M) | F32T82L | 59 | 4 | 2 | (2) LED 12-Watt 4' Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 24 | 4 |
| 112 | Intake North Level 1 | Rm 1150 | (Type K) | F32T82L | 59 | 1 | 2 | (2) LED 12-Watt 4' Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 24 | 1 |
| 113 | Intake North Level 1 | Rm 1150 | (Type KE) | F32T82L | 59 | 1 | 2 | (2) LED 12-Watt 4' Tubes + (1x 14.5-Watt Emergency) | Keystone: KT-LED12T8-48G-8CSJ-DX2 + KT-LED14.5T8EM-48GC-8CSJ-D | 26.5 | 1 |
| 114 | Transport Level 1 | Area (Combined) | (Type L) | F32T82L | 59 | 4 | 2 | (2) LED 12-Watt 4' Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 24 | 4 |
| 115 | Transport Level 1 | Rm 1229 | (Type M) | F32T82L | 59 | 3 | 2 | (2) LED 12-Watt 4" Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 24 | 3 |
| 116 | Transport Level 1 | Rm 1230 | (Type W) | F32T82L | 59 | 2 | 2 | (2) LED 12-Watt 4' Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 24 | 2 |
| 117 | Transport Level 1 | Area (Combined) | (Type F) | F32T82L | 59 | 4 | 2 | (2) LED 12-Watt 4" Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 24 | 4 |
| 118 | Transport Level 1 | Area (Combined) | (Type FE) | F32T82L | 59 | 3 | 2 | (2) LED 12-Watt 4' Tubes + (1x 14.5-Watt Emergency) | Keystone: KT-LED12T8-48G-8CSJ-DX2 + KT-LED14.5T8EM-48GC-8CSJ-D | 26.5 | 3 |
| 119 | Services South Level 1 | Area (Combined) | (Type M) | F32T82L | 59 | 20 | 2 | (2) LED 12-Watt 4" Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 24 | 20 |
| 120 | Services South Level 1 | Area (Combined) | (Type ME) | F32T82L | 59 | 3 | 2 | (2) LED 12-Watt 4' Tubes + (1x 14.5-Watt Emergency) | Keystone: KT-LED12T8-48G-8CSJ-DX2 + KT-LED14.5T8EM-48GC-8CSJ-D | 26.5 | 3 |
| 121 | Services South Level 1 | Area (Combined) | (Type F1) | F32T82L | 59 | 26 | 2 | (2) LED 12-Watt 4' Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 24 | 26 |
| 122 | Services South Level 1 | Corridor Rm 1274 | (Type F1E) | F32T82L | 59 | 2 | 2 | (2) LED 12-Watt 4' Tubes + (1x 14.5-Watt Emergency) | Keystone: KT-LED12T8-48G-8CSJ-DX2 + KT-LED14.5T8EM-48GC-8CSJ-D | 26.5 | 2 |
| 123 | Services South Level 1 | Rm 1289 | (Type B1) | F32T82L | 59 | 5 | 2 | (2) LED 12-Watt 4' Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 24 | 5 |
| 124 | Services South Level 1 | Rm 1289 | (Type B1E) | F32T82L | 59 | 1 | 2 | (2) LED 12-Watt 4' Tubes + (1x 14.5-Watt Emergency) | Keystone: KT-LED12T8-48G-8CSJ-DX2 + KT-LED14.5T8EM-48GC-8CSJ-D | 26.5 | 1 |
| 125 | Services South Level 1 | Area (Combined) | (Type H) | F32T82L | 59 | 3 | 2 | (2) LED 12-Watt 4' Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 24 | 3 |
| 126 | Services South Level 1 | Area (Combined) | (Type W) | F32T82L | 59 | 5 | 2 | (2) LED 12-Watt 4' Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 24 | 5 |
| 127 | Services South Level 1 | Area (Combined) | (Type L) | F32T82L | 59 | 2 | 2 | (2) LED 12-Watt 4' Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 24 | 2 |
| 128 | Services North Level 1 | Area (Combined) | (Type M) | F32T82L | 59 | 21 | 2 | (2) LED 12-Watt 4' Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 24 | 21 |
| 129 | Services North Level 1 | Area (Combined) | (Type ME) | F32T82L | 59 | 1 | 2 | (2) LED 12-Watt 4' Tubes + (1x 14.5-Watt Emergency) | Keystone: KT-LED12T8-48G-8CSJ-DX2 + KT-LED14.5T8EM-48GC-8CSJ-D | 26.5 | 1 |
| 130 | Services North Level 1 | Area (Combined) | (Type W) | F32T82L | 59 | 13 | 2 | (2) LED 12-Watt 4' Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 24 | 13 |
| 131 | Services North Level 1 | Area (Combined) | (Type L) | F32T82L | 59 | 1 | 2 | (2) LED 12-Watt 4' Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 24 | 1 |
| 132 | Services North Level 1 | Area (Combined) | (Type B1) | F32T82L | 59 | 2 | 2 | (2) LED 12-Watt 4' Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 24 | 2 |
| 133 | Services North Level 1 | Area (Combined) | (Type F) | F32T82L | 59 | 5 | 2 | (2) LED 12-Watt 4' Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 24 | 5 |
| 134 | Services North Level 1 | Area (Combined) | (Type FE) | F32T82L | 59 | 1 | 2 | (2) LED 12-Watt 4' Tubes + (1x 14.5-Watt Emergency) | Keystone: KT-LED12T8-48G-8CSJ-DX2 + KT-LED14.5T8EM-48GC-8CSJ-D | 26.5 | 1 |
| 135 | Services North Level 1 | Area (Combined) | (Type H1) | F32T82L | 59 | 1 | 2 | (2) LED 12-Watt 4' Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 24 | 1 |
| 136 | Admin Level 2 | Area (Combined) | (Type Y) | F32T82L | 59 | 1 | 2 | (2) LED 12-Watt 4' Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 24 | 1 |
| 137 | Line-Up / Crime Lab Level 2 | Area (Combined) | (Type L) | F32T82L | 59 | 7 | 2 | (2) LED 12-Watt 4' Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 24 | 7 |
| 138 | Line-Up / Crime Lab Level 2 | Area (Combined) | (Type E) | F32T82L | 59 | 3 | 2 | (2) LED 12-Watt 4' Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 24 | 3 |
| 139 | Line-Up / Crime Lab Level 2 | Area (Combined) | (Type EM) | F32T82L | 59 | 3 | 2 | (2) LED 12-Watt 4' Tubes + (1x 14.5-Watt Emergency) | Keystone: KT-LED12T8-48G-8CSJ-DX2 + KT-LED14.5T8EM-48GC-8CSJ-D | 26.5 | 3 |
| 140 | Line-Up / Crime Lab Level 2 | Area (Combined) | (Type W) | F32T82L | 59 | 3 | 2 | (2) LED 12-Watt 4' Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 24 | 3 |
| 141 | Line-Up / Crime Lab Level 2 | Area (Combined) | (Type FE) | F32T82L | 59 | 2 | 2 | (2) LED 12-Watt 4' Tubes + (1x 14.5-Watt Emergency) | Keystone: KT-LED12T8-48G-8CSJ-DX2 + KT-LED14.5T8EM-48GC-8CSJ-D | 26.5 | 2 |
| 142 | Line-Up / Crime Lab Level 2 | Area (Combined) | (Type WE) | F32T82L | 59 | 1 | 2 | (2) LED 12-Watt 4' Tubes + (1x 14.5-Watt Emergency) | Keystone: KT-LED12T8-48G-8CSJ-DX2 + KT-LED14.5T8EM-48GC-8CSJ-D | 26.5 | 1 |
| 143 | Property South Level 2 | Area (Combined) | (Type G1) | F32T82L | 59 | 6 | 2 | (2) LED 12-Watt 4' Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 24 | 6 |
| 144 | Property South Level 2 | Rm 2061 Closet | (Type W) | F32T82L | 59 | 1 | 2 | (2) LED 12-Watt 4' Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 24 | 1 |



| Cou | nty of San Bernardino: | | | | | | | | | | |
|-----|-----------------------------|---------------------------------|--------------|---------------------|---------------|---------------|-------------------------|---|--|----------------|----|
| | General Inform | ation | | Existing Fixture Da | ata | | | F | Proposed Fixture Data | | |
| # | Building | Room/Area | Fixture Type | Lighting (Pre) | Pre- Watts | Pre # Fixt | Lamps per Fixture | Lighting (Post) | Recommended Make: Model # | Post- Watts | |
| 145 | Property South Level 2 | tm 2061.2 | (Type H1) | F32T82L | 59 | 1 | 2 | (2) LED 12-Watt 4' Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 24 | 1 |
| 146 | Property North Level 2 A | Area (Combined) | (Type E) | F32T82L | 59 | 3 | 2 | (2) LED 12-Watt 4' Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 24 | 3 |
| 147 | Property North Level 2 A | Area (Combined) | (Type F) | F32T82L | 59 | 11 | 2 | (2) LED 12-Watt 4' Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 24 | 11 |
| 148 | Property North Level 2 A | Area (Combined) | (Type H) | F32T82L | 59 | 7 | 2 | (2) LED 12-Watt 4' Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 24 | 7 |
| 149 | Property North Level 2 A | Area (Combined) | (Type W) | F32T82L | 59 | 10 | 2 | (2) LED 12-Watt 4' Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 24 | 10 |
| 150 | Property North Level 2 A | Area (Combined) | (Type WE) | F32T82L | 59 | 4 | 2 | (2) LED 12-Watt 4' Tubes + (1x 14.5-Watt Emergency) | Keystone: KT-LED12T8-48G-8CSJ-DX2 + KT-LED14.5T8EM-48GC-8CSJ-D | 26.5 | 4 |
| 151 | Property North Level 2 A | Area (Combined) | (Type M) | F32T82L | 59 | 3 | 2 | (2) LED 12-Watt 4' Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 24 | 3 |
| 152 | Property North Level 2 A | Area (Combined) | (Type F2) | F32T82L | 59 | 6 | 2 | (2) LED 12-Watt 4' Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 24 | 6 |
| 153 | Visiting Level 2 A | Area (Combined) | (Type W) | F32T82L | 59 | 2 | 2 | (2) LED 12-Watt 4' Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 24 | 2 |
| 154 | Visiting Level 2 A | Area (Combined) | (Type L) | F32T82L | 59 | 1 | 2 | (2) LED 12-Watt 4' Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 24 | 1 |
| 155 | Visiting Level 2 A | Area (Combined) | (Type M) | F32T82L | 59 | 4 | 2 | (2) LED 12-Watt 4' Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 24 | 4 |
| 156 | Visiting Level 2 A | Area (Combined) | (Type H) | F32T82L | 59 | 1 | 2 | (2) LED 12-Watt 4' Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 24 | 1 |
| 157 | Typical Housing Level 1 A | Area (Combined) | (Type H1) | F32T82L | 59 | 15 | 2 | (2) LED 12-Watt 4' Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 24 | 15 |
| 158 | Typical Housing Level 1 A | Area (Combined) | (Type W1) | F32T82L | 59 | 90 | 2 | (2) LED 12-Watt 4' Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 24 | 90 |
| 159 | Typical Housing Mezzanine A | Area (Combined) | (Type L1) | F32T82L | 59 | 90 | 2 | (2) LED 12-Watt 4' Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 24 | 90 |
| 160 | Typical Housing Mezzanine A | Area (Combined) | (Type F2) | F32T82L | 59 | 60 | 2 | (2) LED 12-Watt 4' Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 24 | 60 |
| 161 | Typical Housing Mezzanine A | Area (Combined) | (Type W1) | F32T82L | 59 | 15 | 2 | (2) LED 12-Watt 4' Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 24 | 15 |
| 162 | Atypical Housing Segments U | Jnit M: Segment G: Upper | (Type F2) | F32T82L | 59 | 4 | 2 | (2) LED 12-Watt 4' Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 24 | 4 |
| 163 | Atypical Housing Segments U | Jnit M: Segment G: Upper | (Type W1) | F32T82L | 59 | 1 | 2 | (2) LED 12-Watt 4' Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 24 | 1 |
| 164 | Atypical Housing Segments U | Jnits 9, 8, 10: Segment G Lower | (Type W1) | F32T82L | 59 | 15 | 2 | (2) LED 12-Watt 4' Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 24 | 15 |
| 165 | Atypical Housing Segments U | Jnits 9, 8, 10: Segment G Lower | (Type M1) | F32T82L | 59 | 3 | 2 | (2) LED 12-Watt 4' Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 24 | 3 |
| 166 | Atypical Housing Segments U | Jnit I: Segment G: Lower | (Type W1) | F32T82L | 59 | 4 | 2 | (2) LED 12-Watt 4' Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 24 | 4 |
| 167 | Atypical Housing Segments U | Jnit M: Segment G: Lower | (Type W1) | F32T82L | 59 | 7 | 2 | (2) LED 12-Watt 4' Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 24 | 7 |
| 168 | Infirmary A | Area (Combined) | (Type W) | F32T82L | 59 | 4 | 2 | (2) LED 12-Watt 4' Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 24 | 4 |
| 169 | Infirmary A | Area (Combined) | (Type M1) | F32T82L | 59 | 8 | 2 | (2) LED 12-Watt 4' Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 24 | 8 |
| 170 | Infirmary A | Area (Combined) | (Type Y1) | F32T82L | 59 | 7 | 2 | (2) LED 12-Watt 4' Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 24 | 7 |
| 171 | Infirmary A | Area (Combined) | (Type W1) | F32T82L | 59 | 2 | 2 | (2) LED 12-Watt 4' Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 24 | 2 |
| 172 | Infirmary A | Area (Combined) | (Type L1) | F32T82L | 59 | 3 | 2 | (2) LED 12-Watt 4' Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 24 | 3 |
| 173 | Infirmary A | Area (Combined) | (Type G1) | F32T82L | 59 | 5 | 2 | (2) LED 12-Watt 4' Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 24 | 5 |
| 174 | Infirmary A | Area (Combined) | (Type H1) | F32T82L | 59 | 2 | 2 | (2) LED 12-Watt 4' Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 24 | 2 |
| 175 | Admin Level 1 A | Area (Combined) | (Type A) | F32T83L | 89 | 23 | 3 | (3) LED 12-Watt 4' Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 36 | 23 |
| 176 | Admin Level 1 A | Area (Combined) | (Type AE) | F32T83L | 89 | 2 | 3 | (3) LED 12-Watt 4' Tubes + (1x 14.5-Watt Emergency) | Keystone: KT-LED12T8-48G-8CSJ-DX2 + KT-LED14.5T8EM-48GC-8CSJ-D | 38.5 | 2 |
| 177 | Admin Level 1 R | Restrooms (Combined) | (Type JJ) | F32T83L | 89 | 6 | 3 | (3) LED 12-Watt 4' Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 36 | 6 |
| 178 | Video Arraignment Level 1 R | Restrooms (Combined) | (Type JJ) | F32T83L | 89 | 2 | 3 | (3) LED 12-Watt 4' Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 36 | 2 |
| 179 | Intake North Level 1 R | tm 1208 | (Type AE) | F32T83L | 89 | 1 | 3 | (3) LED 12-Watt 4' Tubes + (1x 14.5-Watt Emergency) | Keystone: KT-LED12T8-48G-8CSJ-DX2 + KT-LED14.5T8EM-48GC-8CSJ-D | 38.5 | 1 |
| 180 | Services South Level 1 | lm 1260 | (Type A) | F32T83L | 89 | 2 | 3 | (3) LED 12-Watt 4' Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 36 | 2 |



| Cou | inty of San Bernardin | o: WVADC - Intake: | Interior Li | ghting | | | | | | | |
|-----|-----------------------------|-----------------------------|--------------|--------------------|---------------|---------------|-------------------------|---|--|----------------|---------------|
| | General Infor | mation | | Existing Fixture D | ata | | | F | Proposed Fixture Data | | |
| # | Building | Room/Area | Fixture Type | Lighting (Pre) | Pre- Watts | Pre # Fixt | Lamps per Fixture | Lighting (Post) | Recommended Make: Model # | Post- Watts | Post# Fixt |
| 181 | Services South Level 1 | Restrooms (Combined) | (Type JJ) | F32T83L | 89 | 2 | 3 | (3) LED 12-Watt 4' Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 36 | 2 |
| 182 | Services North Level 1 | Area (Combined) | (Type JJ) | F32T83L | 89 | 9 | 3 | (3) LED 12-Watt 4' Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 36 | 9 |
| 183 | Admin Level 2 | Area (Combined) | (Type JJ) | F32T83L | 89 | 6 | 3 | (3) LED 12-Watt 4' Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 36 | 6 |
| 184 | Line-Up / Crime Lab Level 2 | Area (Combined) | (Type JJ) | F32T83L | 89 | 2 | 3 | (3) LED 12-Watt 4' Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 36 | 2 |
| 185 | Property North Level 2 | Area (Combined) | (Type JJ) | F32T83L | 89 | 4 | 3 | (3) LED 12-Watt 4' Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 36 | 4 |
| 186 | Visiting Level 2 | Area (Combined) | (Type JJ) | F32T83L | 89 | 8 | 3 | (3) LED 12-Watt 4' Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 36 | 8 |
| 187 | Visiting Level 2 | Area (Combined) | (Type A) | F32T83L | 89 | 4 | 3 | (3) LED 12-Watt 4' Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 36 | 4 |
| 188 | Visiting Level 2 | Area (Combined) | (Type AE) | F32T83L | 89 | 2 | 3 | (3) LED 12-Watt 4' Tubes + (1x 14.5-Watt Emergency) | Keystone: KT-LED12T8-48G-8CSJ-DX2 + KT-LED14.5T8EM-48GC-8CSJ-D | 38.5 | 2 |
| 189 | Corridors (Combined) | Area (Combined) | (Type EE) | F32T84L | 112 | 128 | 4 | (4) LED 12-Watt 4' Tubes + (1x 14.5-Watt Emergency) | Keystone: KT-LED12T8-48G-8CSJ-DX2 + KT-LED14.5T8EM-48GC-8CSJ-D | 50.5 | 128 |
| 190 | Corridors (Combined) | Area (Combined) | (Type F3) | F32T84L | 112 | 244 | 4 | (4) LED 12-Watt 4' Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 48 | 244 |
| 191 | Admin Level 1 | Area (Combined) | (Type A2) | F32T84L | 112 | 9 | 4 | (4) LED 12-Watt 4' Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 48 | 9 |
| 192 | Admin Level 1 | Area (Combined) | (Type A2E) | F32T84L | 112 | 5 | 4 | (4) LED 12-Watt 4' Tubes + (1x 14.5-Watt Emergency) | Keystone: KT-LED12T8-48G-8CSJ-DX2 + KT-LED14.5T8EM-48GC-8CSJ-D | 50.5 | 5 |
| 193 | Video Arraignment Level 1 | Video Arraignment Area 1043 | (Type C1) | F32T84L | 112 | 7 | 4 | (4) LED 12-Watt 4' Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 48 | 7 |
| 194 | Video Arraignment Level 1 | Video Arraignment Area 1043 | (Type C1E) | F32T84L | 112 | 1 | 4 | (4) LED 12-Watt 4' Tubes + (1x 14.5-Watt Emergency) | Keystone: KT-LED12T8-48G-8CSJ-DX2 + KT-LED14.5T8EM-48GC-8CSJ-D | 50.5 | 1 |
| 195 | Intake South Level 1 | Area (Combined) | (Type B2) | F32T84L | 112 | 20 | 4 | (4) LED 12-Watt 4' Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 48 | 20 |
| 196 | Intake South Level 1 | Area (Combined) | (Type B) | F32T84L | 112 | 32 | 4 | (4) LED 12-Watt 4' Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 48 | 32 |
| 197 | Intake South Level 1 | Area (Combined) | (Type BE) | F32T84L | 112 | 2 | 4 | (4) LED 12-Watt 4' Tubes + (1x 14.5-Watt Emergency) | Keystone: KT-LED12T8-48G-8CSJ-DX2 + KT-LED14.5T8EM-48GC-8CSJ-D | 50.5 | 2 |
| 198 | Intake South Level 1 | Area (Combined) | (Type A1) | F32T84L | 112 | 40 | 4 | (4) LED 12-Watt 4' Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 48 | 40 |
| 199 | Intake South Level 1 | Area (Combined) | (Type A1E) | F32T84L | 112 | 8 | 4 | (4) LED 12-Watt 4' Tubes + (1x 14.5-Watt Emergency) | Keystone: KT-LED12T8-48G-8CSJ-DX2 + KT-LED14.5T8EM-48GC-8CSJ-D | 50.5 | 8 |
| 200 | Intake South Level 1 | Area (Combined) | (Type C) | F32T84L | 112 | 21 | 4 | (4) LED 12-Watt 4' Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 48 | 21 |
| 201 | Intake South Level 1 | Area (Combined) | (Type CE) | F32T84L | 112 | 3 | 4 | (4) LED 12-Watt 4' Tubes + (1x 14.5-Watt Emergency) | Keystone: KT-LED12T8-48G-8CSJ-DX2 + KT-LED14.5T8EM-48GC-8CSJ-D | 50.5 | 3 |
| 202 | Intake South Level 1 | Rm 1090 | (Type C1) | F32T84L | 112 | 1 | 4 | (4) LED 12-Watt 4' Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 48 | 1 |
| 203 | Intake South Level 1 | Area (Combined) | (Type EE2) | F32T84L | 112 | 11 | 4 | (4) LED 12-Watt 4' Tubes + (1x 14.5-Watt Emergency) | Keystone: KT-LED12T8-48G-8CSJ-DX2 + KT-LED14.5T8EM-48GC-8CSJ-D | 50.5 | 11 |
| 204 | Intake North Level 1 | Area (Combined) | (Type A1) | F32T84L | 112 | 48 | 4 | (4) LED 12-Watt 4' Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 48 | 48 |
| 205 | Intake North Level 1 | Area (Combined) | (Type A1E) | F32T84L | 112 | 9 | 4 | (4) LED 12-Watt 4' Tubes + (1x 14.5-Watt Emergency) | Keystone: KT-LED12T8-48G-8CSJ-DX2 + KT-LED14.5T8EM-48GC-8CSJ-D | 50.5 | 9 |
| 206 | Intake North Level 1 | Area (Combined) | (Type A2) | F32T84L | 112 | 15 | 4 | (4) LED 12-Watt 4' Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 48 | 15 |
| 207 | Intake North Level 1 | Area (Combined) | (Type A2E) | F32T84L | 112 | 2 | 4 | (4) LED 12-Watt 4' Tubes + (1x 14.5-Watt Emergency) | Keystone: KT-LED12T8-48G-8CSJ-DX2 + KT-LED14.5T8EM-48GC-8CSJ-D | 50.5 | 2 |
| 208 | Intake North Level 1 | Area (Combined) | (Type B) | F32T84L | 112 | 53 | 4 | (4) LED 12-Watt 4' Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 48 | 53 |
| 209 | Intake North Level 1 | Area (Combined) | (Type BE) | F32T84L | 112 | 2 | 4 | (4) LED 12-Watt 4' Tubes + (1x 14.5-Watt Emergency) | Keystone: KT-LED12T8-48G-8CSJ-DX2 + KT-LED14.5T8EM-48GC-8CSJ-D | 50.5 | 2 |
| 210 | Intake North Level 1 | Rm 1158 | (Type B7) | F32T84L | 112 | 9 | 4 | (4) LED 12-Watt 4' Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 48 | 9 |
| 211 | Transport Level 1 | Area (Combined) | (Type A1) | F32T84L | 112 | 14 | 4 | (4) LED 12-Watt 4' Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 48 | 14 |
| 212 | Transport Level 1 | Area (Combined) | (Type A1E) | F32T84L | 112 | 2 | 4 | (4) LED 12-Watt 4' Tubes + (1x 14.5-Watt Emergency) | Keystone: KT-LED12T8-48G-8CSJ-DX2 + KT-LED14.5T8EM-48GC-8CSJ-D | 50.5 | 2 |
| 213 | Services South Level 1 | Area (Combined) | (Type B) | F32T84L | 112 | 18 | 4 | (4) LED 12-Watt 4' Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 48 | 18 |
| 214 | Services South Level 1 | Area (Combined) | (Type A1) | F32T84L | 112 | 24 | 4 | (4) LED 12-Watt 4' Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 48 | 24 |
| 215 | Services South Level 1 | Area (Combined) | (Type A1E) | F32T84L | 112 | 3 | 4 | (4) LED 12-Watt 4' Tubes + (1x 14.5-Watt Emergency) | Keystone: KT-LED12T8-48G-8CSJ-DX2 + KT-LED14.5T8EM-48GC-8CSJ-D | 50.5 | 3 |
| 216 | Services South Level 1 | Rm 1256.1 | (Type C) | F32T84L | 112 | 4 | 4 | (4) LED 12-Watt 4' Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 48 | 4 |



| Cou | nty of San Bernardin | o: WVADC - Intake | : Interior Lig | ghting | | | | | | | |
|-----|-----------------------------|-------------------|----------------|--------------------|---------------|--------------|-------------------------|---|--|----------------|----|
| | General Infor | mation | | Existing Fixture D | ata | | | F | Proposed Fixture Data | | |
| # | Building | Room/Area | Fixture Type | Lighting (Pre) | Pre- Watts | Pre# Fixt | Lamps per Fixture | Lighting (Post) | Recommended Make: Model # | Post- Watts | |
| 217 | Services South Level 1 | Rm 1276 | (Type E1) | F32T84L | 112 | 2 | 4 | (4) LED 12-Watt 4' Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 48 | 2 |
| 218 | Services North Level 1 | Area (Combined) | (Type A1) | F32T84L | 112 | 21 | 4 | (4) LED 12-Watt 4' Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 48 | 21 |
| 219 | Services North Level 1 | Area (Combined) | (Type B) | F32T84L | 112 | 2 | 4 | (4) LED 12-Watt 4' Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 48 | 2 |
| 220 | Services North Level 1 | Area (Combined) | (Type B3) | F32T84L | 112 | 9 | 4 | (4) LED 12-Watt 4' Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 48 | 9 |
| 221 | Services North Level 1 | Area (Combined) | (Type AAE) | F32T84L | 112 | 2 | 4 | (4) LED 12-Watt 4' Tubes + (1x 14.5-Watt Emergency) | Keystone: KT-LED12T8-48G-8CSJ-DX2 + KT-LED14.5T8EM-48GC-8CSJ-D | 50.5 | 2 |
| 222 | Admin Level 2 | Area (Combined) | (Type B) | F32T84L | 112 | 60 | 4 | (4) LED 12-Watt 4' Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 48 | 60 |
| 223 | Admin Level 2 | Area (Combined) | (Type A2) | F32T84L | 112 | 4 | 4 | (4) LED 12-Watt 4' Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 48 | 4 |
| 224 | Admin Level 2 | Area (Combined) | (Type BE) | F32T84L | 112 | 2 | 4 | (4) LED 12-Watt 4' Tubes + (1x 14.5-Watt Emergency) | Keystone: KT-LED12T8-48G-8CSJ-DX2 + KT-LED14.5T8EM-48GC-8CSJ-D | 50.5 | 2 |
| 225 | Line-Up / Crime Lab Level 2 | Area (Combined) | (Type B) | F32T84L | 112 | 20 | 4 | (4) LED 12-Watt 4' Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 48 | 20 |
| 226 | Line-Up / Crime Lab Level 2 | Area (Combined) | (Type B2) | F32T84L | 112 | 8 | 4 | (4) LED 12-Watt 4' Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 48 | 8 |
| 227 | Line-Up / Crime Lab Level 2 | Area (Combined) | (Type BE) | F32T84L | 112 | 2 | 4 | (4) LED 12-Watt 4' Tubes + (1x 14.5-Watt Emergency) | Keystone: KT-LED12T8-48G-8CSJ-DX2 + KT-LED14.5T8EM-48GC-8CSJ-D | 50.5 | 2 |
| 228 | Line-Up / Crime Lab Level 2 | Area (Combined) | (Type A1) | F32T84L | 112 | 5 | 4 | (4) LED 12-Watt 4' Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 48 | 5 |
| 229 | Property South Level 2 | Stairwell | (Type A1E) | F32T84L | 112 | 2 | 4 | (4) LED 12-Watt 4' Tubes + (1x 14.5-Watt Emergency) | Keystone: KT-LED12T8-48G-8CSJ-DX2 + KT-LED14.5T8EM-48GC-8CSJ-D | 50.5 | 2 |
| 230 | Property South Level 2 | Rm 2061 | (Type EE) | F32T84L | 112 | 1 | 4 | (4) LED 12-Watt 4' Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 48 | 1 |
| 231 | Property South Level 2 | Area (Combined) | (Type EE2) | F32T84L | 112 | 12 | 4 | (4) LED 12-Watt 4' Tubes + (1x 14.5-Watt Emergency) | Keystone: KT-LED12T8-48G-8CSJ-DX2 + KT-LED14.5T8EM-48GC-8CSJ-D | 50.5 | 12 |
| 232 | Property South Level 2 | Rm 2061.4 | (Type B7) | F32T84L | 112 | 6 | 4 | (4) LED 12-Watt 4' Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 48 | 6 |
| 233 | Property South Level 2 | Corridor Rm 2062 | (Type A2) | F32T84L | 112 | 7 | 4 | (4) LED 12-Watt 4' Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 48 | 7 |
| 234 | Property South Level 2 | Corridor Rm 2062 | (Type A2E) | F32T84L | 112 | 3 | 4 | (4) LED 12-Watt 4' Tubes + (1x 14.5-Watt Emergency) | Keystone: KT-LED12T8-48G-8CSJ-DX2 + KT-LED14.5T8EM-48GC-8CSJ-D | 50.5 | 3 |
| 235 | Property North Level 2 | Area (Combined) | (Type A2) | F32T84L | 112 | 7 | 4 | (4) LED 12-Watt 4' Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 48 | 7 |
| 236 | Property North Level 2 | Area (Combined) | (Type A2E) | F32T84L | 112 | 2 | 4 | (4) LED 12-Watt 4' Tubes + (1x 14.5-Watt Emergency) | Keystone: KT-LED12T8-48G-8CSJ-DX2 + KT-LED14.5T8EM-48GC-8CSJ-D | 50.5 | 2 |
| 237 | Property North Level 2 | Area (Combined) | (Type A1) | F32T84L | 112 | 5 | 4 | (4) LED 12-Watt 4' Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 48 | 5 |
| 238 | Property North Level 2 | Area (Combined) | (Type A1E) | F32T84L | 112 | 2 | 4 | (4) LED 12-Watt 4' Tubes + (1x 14.5-Watt Emergency) | Keystone: KT-LED12T8-48G-8CSJ-DX2 + KT-LED14.5T8EM-48GC-8CSJ-D | 50.5 | 2 |
| 239 | Property North Level 2 | Area (Combined) | (Type B) | F32T84L | 112 | 33 | 4 | (4) LED 12-Watt 4' Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 48 | 33 |
| 240 | Property North Level 2 | Area (Combined) | (Type BE) | F32T84L | 112 | 1 | 4 | (4) LED 12-Watt 4' Tubes + (1x 14.5-Watt Emergency) | Keystone: KT-LED12T8-48G-8CSJ-DX2 + KT-LED14.5T8EM-48GC-8CSJ-D | 50.5 | 1 |
| 241 | Property North Level 2 | Area (Combined) | (Type B3) | F32T84L | 112 | 4 | 4 | (4) LED 12-Watt 4' Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 48 | 4 |
| 242 | Property North Level 2 | Area (Combined) | (Type EE) | F32T84L | 112 | 1 | 4 | (4) LED 12-Watt 4' Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 48 | 1 |
| 243 | Property North Level 2 | Area (Combined) | (Type EE2) | F32T84L | 112 | 9 | 4 | (4) LED 12-Watt 4' Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 48 | 9 |
| 244 | Property North Level 2 | Area (Combined) | (Type B7) | F32T84L | 112 | 10 | 4 | (4) LED 12-Watt 4' Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 48 | 10 |
| 245 | Visiting Level 2 | Area (Combined) | (Type B) | F32T84L | 112 | 20 | 4 | (4) LED 12-Watt 4' Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 48 | 20 |
| 246 | Visiting Level 2 | Area (Combined) | (Type BE) | F32T84L | 112 | 1 | 4 | (4) LED 12-Watt 4' Tubes + (1x 14.5-Watt Emergency) | Keystone: KT-LED12T8-48G-8CSJ-DX2 + KT-LED14.5T8EM-48GC-8CSJ-D | 50.5 | 1 |
| 247 | Visiting Level 2 | Area (Combined) | (Type A3) | F32T84L | 112 | 8 | 4 | (4) LED 12-Watt 4' Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 48 | 8 |
| 248 | Visiting Level 2 | Area (Combined) | (Type A3E) | F32T84L | 112 | 4 | 4 | (4) LED 12-Watt 4' Tubes + (1x 14.5-Watt Emergency) | Keystone: KT-LED12T8-48G-8CSJ-DX2 + KT-LED14.5T8EM-48GC-8CSJ-D | 50.5 | 4 |
| 249 | Visiting Level 2 | Area (Combined) | (Type E1) | F32T84L | 112 | 2 | 4 | (4) LED 12-Watt 4' Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 48 | 2 |
| 250 | Visiting Level 2 | Area (Combined) | (Type B7) | F32T84L | 112 | 2 | 4 | (4) LED 12-Watt 4' Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 48 | 2 |
| 251 | Visiting Level 2 | Area (Combined) | (Type A1) | F32T84L | 112 | 4 | 4 | (4) LED 12-Watt 4' Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 48 | 4 |
| 252 | Visiting Level 2 | Area (Combined) | (Type A1E) | F32T84L | 112 | 2 | 4 | (4) LED 12-Watt 4' Tubes + (1x 14.5-Watt Emergency) | Keystone: KT-LED12T8-48G-8CSJ-DX2 + KT-LED14.5T8EM-48GC-8CSJ-D | 50.5 | 2 |

ALLIANCE BUILDING SOLUTIONS

| Cou | ounty of San Bernardino: WVADC - Intake: Interior Lighting | | | | | | | | | | |
|-----|--|---------------------------------|--------------|--------------------|---------------|---------------|-------------------------|---|--|----------------|-------|
| | General Inform | mation | | Existing Fixture D | ata | | | Proposed Fixture Data | | | |
| # | Building | Room/Area | Fixture Type | Lighting (Pre) | Pre- Watts | Pre # Fixt | Lamps per Fixture | Lighting (Post) | Recommended Make: Model # | Post- Watts | Post# |
| 253 | Visiting Level 2 | Area (Combined) | (Type C1) | F32T84L | 112 | 1 | 4 | (4) LED 12-Watt 4' Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 48 | 1 |
| 254 | Typical Housing Level 1 | Area (Combined) | (Type EE2) | F32T84L | 112 | 120 | 4 | (4) LED 12-Watt 4' Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 48 | 120 |
| 255 | Typical Housing Level 1 | Area (Combined) | (Type EE1E) | F32T84L | 112 | 15 | 4 | (4) LED 12-Watt 4' Tubes + (1x 14.5-Watt Emergency) | Keystone: KT-LED12T8-48G-8CSJ-DX2 + KT-LED14.5T8EM-48GC-8CSJ-D | 50.5 | 15 |
| 256 | Typical Housing Level 1 | Area (Combined) | (Type EE1) | F32T84L | 112 | 60 | 4 | (4) LED 12-Watt 4' Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 48 | 60 |
| 257 | Typical Housing Level 1 | Area (Combined) | (Type B6) | F32T84L | 112 | 30 | 4 | (4) LED 12-Watt 4' Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 48 | 30 |
| 258 | Typical Housing Mezzanine | Area (Combined) | (Type AAE) | F32T84L | 112 | 90 | 4 | (4) LED 12-Watt 4' Tubes + (1x 14.5-Watt Emergency) | Keystone: KT-LED12T8-48G-8CSJ-DX2 + KT-LED14.5T8EM-48GC-8CSJ-D | 50.5 | 90 |
| 259 | Typical Housing Mezzanine | Area (Combined) | (Type B4E) | F32T84L | 112 | 30 | 4 | (4) LED 12-Watt 4' Tubes + (1x 14.5-Watt Emergency) | Keystone: KT-LED12T8-48G-8CSJ-DX2 + KT-LED14.5T8EM-48GC-8CSJ-D | 50.5 | 30 |
| 260 | Typical Housing Mezzanine | Area (Combined) | (Type A5) | F32T84L | 112 | 135 | 4 | (4) LED 12-Watt 4' Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 48 | 135 |
| 261 | Typical Housing Mezzanine | Area (Combined) | (Type A5E) | F32T84L | 112 | 30 | 4 | (4) LED 12-Watt 4' Tubes + (1x 14.5-Watt Emergency) | Keystone: KT-LED12T8-48G-8CSJ-DX2 + KT-LED14.5T8EM-48GC-8CSJ-D | 50.5 | 30 |
| 262 | Typical Housing Mezzanine | Area (Combined) | (Type EE1E) | F32T84L | 112 | 15 | 4 | (4) LED 12-Watt 4' Tubes + (1x 14.5-Watt Emergency) | Keystone: KT-LED12T8-48G-8CSJ-DX2 + KT-LED14.5T8EM-48GC-8CSJ-D | 50.5 | 15 |
| 263 | Atypical Housing Segments | Unit M: Segment G: Upper | (Type B4E) | F32T84L | 112 | 2 | 4 | (4) LED 12-Watt 4' Tubes + (1x 14.5-Watt Emergency) | Keystone: KT-LED12T8-48G-8CSJ-DX2 + KT-LED14.5T8EM-48GC-8CSJ-D | 50.5 | 2 |
| 264 | Atypical Housing Segments | Unit M: Segment G: Upper | (Type A5) | F32T84L | 112 | 2 | 4 | (4) LED 12-Watt 4" Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 48 | 2 |
| 265 | Atypical Housing Segments | Units 9, 8, 10: Segment G Lower | (Type EE1) | F32T84L | 112 | 15 | 4 | (4) LED 12-Watt 4" Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 48 | 15 |
| 266 | Atypical Housing Segments | Units 9, 8, 10: Segment G Lower | (Type EE1E) | F32T84L | 112 | 3 | 4 | (4) LED 12-Watt 4' Tubes + (1x 14.5-Watt Emergency) | Keystone: KT-LED12T8-48G-8CSJ-DX2 + KT-LED14.5T8EM-48GC-8CSJ-D | 50.5 | 3 |
| 267 | Atypical Housing Segments | Units 9, 8, 10: Segment G Lower | (Type B6) | F32T84L | 112 | 12 | 4 | (4) LED 12-Watt 4" Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 48 | 12 |
| 268 | Atypical Housing Segments | Unit I: Segment G: Lower | (Type B6) | F32T84L | 112 | 6 | 4 | (4) LED 12-Watt 4" Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 48 | 6 |
| 269 | Atypical Housing Segments | Unit M: Segment G: Lower | (Type EE1) | F32T84L | 112 | 3 | 4 | (4) LED 12-Watt 4" Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 48 | 3 |
| 270 | Atypical Housing Segments | Unit M: Segment G: Lower | (Type EE1E) | F32T84L | 112 | 1 | 4 | (4) LED 12-Watt 4' Tubes + (1x 14.5-Watt Emergency) | Keystone: KT-LED12T8-48G-8CSJ-DX2 + KT-LED14.5T8EM-48GC-8CSJ-D | 50.5 | 1 |
| 271 | Atypical Housing Segments | Unit M: Segment G: Lower | (Type B6) | F32T84L | 112 | 3 | 4 | (4) LED 12-Watt 4" Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 48 | 3 |
| 272 | Infirmary | Area (Combined) | (Type EE1) | F32T84L | 112 | 7 | 4 | (4) LED 12-Watt 4" Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 48 | 7 |
| 273 | Infirmary | Area (Combined) | (Type B5) | F32T84L | 112 | 26 | 4 | (4) LED 12-Watt 4" Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 48 | 26 |
| 274 | Infirmary | Area (Combined) | (Type A4) | F32T84L | 112 | 45 | 4 | (4) LED 12-Watt 4' Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 48 | 45 |
| 275 | Infirmary | Area (Combined) | (Type A4E) | F32T84L | 112 | 2 | 4 | (4) LED 12-Watt 4' Tubes + (1x 14.5-Watt Emergency) | Keystone: KT-LED12T8-48G-8CSJ-DX2 + KT-LED14.5T8EM-48GC-8CSJ-D | 50.5 | 2 |
| 276 | Infirmary | Area (Combined) | (Type C3) | F32T84L | 112 | 15 | 4 | (4) LED 12-Watt 4' Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 48 | 15 |
| 277 | Infirmary | Area (Combined) | (Type B4) | F32T84L | 112 | 6 | 4 | (4) LED 12-Watt 4' Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 48 | 6 |
| 278 | Infirmary | Area (Combined) | (Type C2) | F32T84L | 112 | 40 | 4 | (4) LED 12-Watt 4' Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 48 | 40 |
| 279 | Infirmary | Area (Combined) | (Type C2E) | F32T84L | 112 | 5 | 4 | (4) LED 12-Watt 4' Tubes + (1x 14.5-Watt Emergency) | Keystone: KT-LED12T8-48G-8CSJ-DX2 + KT-LED14.5T8EM-48GC-8CSJ-D | 50.5 | 5 |
| 280 | Infirmary | Area (Combined) | (Type EE2) | F32T84L | 112 | 4 | 4 | (4) LED 12-Watt 4' Tubes Ballast Bypass | Keystone: KT-LED12T8-48G-8CSJ-DX2 | 48 | 4 |
| 281 | Intake North Level 1 | Area (Combined) | (Type D1) | FU31T8/6 2L | 59 | 1 | 2 | (2) LED 18-Watt 2' U-Tubes Ballast Bypass | Keystone: KT-LED18T8-U6GC-850-D | 36 | 1 |
| 282 | Intake North Level 1 | Rm 1207 | (Type D) | FU31T8/6 2L | 59 | 2 | 2 | (2) LED 18-Watt 2' U-Tubes Ballast Bypass | Keystone: KT-LED18T8-U6GC-850-D | 36 | 2 |
| 283 | Services North Level 1 | Area (Combined) | (Type D1) | FU31T8/6 2L | 59 | 27 | 2 | (2) LED 18-Watt 2' U-Tubes Ballast Bypass | Keystone: KT-LED18T8-U6GC-850-D | 36 | 27 |
| 284 | Services North Level 1 | Area (Combined) | (Type D1E) | FU31T8/6 2L | 59 | 5 | 2 | (2) LED 18-Watt 2' U-Tubes Ballast Bypass | Keystone: KT-LED18T8-U6GC-850-D | 36 | 5 |
| 285 | Mech Bldg. | Interior | Strip 1'x8' | F96T122L | 123 | 16 | 2 | (2) LED 25-Watt 8' Tubes Ballast Bypass | Keystone: KT-LED25T8-96G-850-D2 | 50 | 16 |
| 286 | Mech Bldg. | Edison Rm | Strip 1'x8' | F96T122L | 123 | 4 | 2 | (2) LED 25-Watt 8' Tubes Ballast Bypass | Keystone: KT-LED25T8-96G-850-D2 | 50 | 4 |
| 287 | Video Arraignment Level 1 | Area (Combined) | (Type BB) | F96T122L | 123 | 13 | 2 | (2) LED 25-Watt 8' Tubes Ballast Bypass | Keystone: KT-LED25T8-96G-850-D2 | 50 | 13 |
| 288 | Intake South Level 1 | Area (Combined) | (Type BB) | F96T122L | 123 | 2 | 2 | (2) LED 25-Watt 8' Tubes Ballast Bypass | Keystone: KT-LED25T8-96G-850-D2 | 50 | 2 |



| Cou | County of San Bernardino: WVADC - Intake: Interior Lighting | | | | | | | | | | |
|---|---|-----------------|--------------|-----------------------|---------------|---------------|-------------------------|---|---------------------------------|----------------|-----|
| General Information Existing Fixture Data | | | | Proposed Fixture Data | | | | | | | |
| # | Building | Room/Area | Fixture Type | Lighting (Pre) | Pre- Watts | Pre # Fixt | Lamps per Fixture | Lighting (Post) | Recommended Make: Model # | Post- Watts | |
| 289 | Intake North Level 1 | Area (Combined) | (Type BB) | F96T122L | 123 | 3 | 2 | (2) LED 25-Watt 8' Tubes Ballast Bypass | Keystone: KT-LED25T8-96G-850-D2 | 50 | 3 |
| 290 | Intake North Level 1 | Rm 1155 | (Type BBE) | F96T122L | 123 | 1 | 2 | (2) LED 25-Watt 8' Tubes Ballast Bypass | Keystone: KT-LED25T8-96G-850-D2 | 50 | 1 |
| 291 | Transport Level 1 | Area (Combined) | (Type BB) | F96T122L | 123 | 12 | 2 | (2) LED 25-Watt 8' Tubes Ballast Bypass | Keystone: KT-LED25T8-96G-850-D2 | 50 | 12 |
| 292 | Services South Level 1 | Area (Combined) | (Type BB) | F96T122L | 123 | 62 | 2 | (2) LED 25-Watt 8' Tubes Ballast Bypass | Keystone: KT-LED25T8-96G-850-D2 | 50 | 62 |
| 293 | Services South Level 1 | Area (Combined) | (Type BBE) | F96T122L | 123 | 7 | 2 | (2) LED 25-Watt 8' Tubes Ballast Bypass | Keystone: KT-LED25T8-96G-850-D2 | 50 | 7 |
| 294 | Services South Level 1 | Area (Combined) | (Type OO) | F96T122L | 123 | 61 | 2 | (2) LED 25-Watt 8' Tubes Ballast Bypass | Keystone: KT-LED25T8-96G-850-D2 | 50 | 61 |
| 295 | Services South Level 1 | Area (Combined) | (Type OOE) | F96T122L | 123 | 11 | 2 | (2) LED 25-Watt 8' Tubes Ballast Bypass | Keystone: KT-LED25T8-96G-850-D2 | 50 | 11 |
| 296 | Services North Level 1 | Area (Combined) | (Type OO) | F96T122L | 123 | 19 | 2 | (2) LED 25-Watt 8' Tubes Ballast Bypass | Keystone: KT-LED25T8-96G-850-D2 | 50 | 19 |
| 297 | Services North Level 1 | Area (Combined) | (Type OO1) | F96T122L | 123 | 1 | 2 | (2) LED 25-Watt 8' Tubes Ballast Bypass | Keystone: KT-LED25T8-96G-850-D2 | 50 | 1 |
| 298 | Services North Level 1 | Area (Combined) | (Type OOE) | F96T122L | 123 | 3 | 2 | (2) LED 25-Watt 8' Tubes Ballast Bypass | Keystone: KT-LED25T8-96G-850-D2 | 50 | 3 |
| 299 | Services North Level 1 | Area (Combined) | (Type BB) | F96T122L | 123 | 53 | 2 | (2) LED 25-Watt 8' Tubes Ballast Bypass | Keystone: KT-LED25T8-96G-850-D2 | 50 | 53 |
| 300 | Services North Level 1 | Area (Combined) | (Type N) | F96T122L | 123 | 19 | 2 | (2) LED 25-Watt 8' Tubes Ballast Bypass | Keystone: KT-LED25T8-96G-850-D2 | 50 | 19 |
| 301 | Services North Level 1 | Area (Combined) | (Type NE) | F96T122L | 123 | 2 | 2 | (2) LED 25-Watt 8' Tubes Ballast Bypass | Keystone: KT-LED25T8-96G-850-D2 | 50 | 2 |
| 302 | Line-Up / Crime Lab Level 2 | Area (Combined) | (Type BB) | F96T122L | 123 | 8 | 2 | (2) LED 25-Watt 8' Tubes Ballast Bypass | Keystone: KT-LED25T8-96G-850-D2 | 50 | 8 |
| 303 | Property South Level 2 | Area (Combined) | (Type BB) | F96T122L | 123 | 70 | 2 | (2) LED 25-Watt 8' Tubes Ballast Bypass | Keystone: KT-LED25T8-96G-850-D2 | 50 | 70 |
| 304 | Property South Level 2 | Area (Combined) | (Type BBE) | F96T122L | 123 | 2 | 2 | (2) LED 25-Watt 8' Tubes Ballast Bypass | Keystone: KT-LED25T8-96G-850-D2 | 50 | 2 |
| 305 | Property North Level 2 | Area (Combined) | (Type BB) | F96T122L | 123 | 12 | 2 | (2) LED 25-Watt 8' Tubes Ballast Bypass | Keystone: KT-LED25T8-96G-850-D2 | 50 | 12 |
| 306 | Visiting Level 2 | Area (Combined) | (Type BB) | F96T122L | 123 | 2 | 2 | (2) LED 25-Watt 8' Tubes Ballast Bypass | Keystone: KT-LED25T8-96G-850-D2 | 50 | 2 |
| 307 | Typical Housing Mezzanine | Area (Combined) | (Type BB1) | F96T122L | 123 | 105 | 2 | (2) LED 25-Watt 8' Tubes Ballast Bypass | Keystone: KT-LED25T8-96G-850-D2 | 50 | 105 |
| 308 | Typical Housing Mezzanine | Area (Combined) | (Type OOE) | F96T122L | 123 | 45 | 2 | (2) LED 25-Watt 8' Tubes Ballast Bypass | Keystone: KT-LED25T8-96G-850-D2 | 50 | 45 |
| 309 | Infirmary | Area (Combined) | (Type BB1) | F96T122L | 123 | 3 | 2 | (2) LED 25-Watt 8' Tubes Ballast Bypass | Keystone: KT-LED25T8-96G-850-D2 | 50 | 3 |
| 310 | Generator / Water Treatment | Area (Combined) | (Type N) | F96T122L | 123 | 21 | 2 | (2) LED 25-Watt 8' Tubes Ballast Bypass | Keystone: KT-LED25T8-96G-850-D2 | 50 | 21 |
| 311 | Generator / Water Treatment | Area (Combined) | (Type NE) | F96T122L | 123 | 9 | 2 | (2) LED 25-Watt 8' Tubes Ballast Bypass | Keystone: KT-LED25T8-96G-850-D2 | 50 | 9 |



| Version | 2.0 | Date | 6/14/2021 |
|-------------|------|------|-----------|
| Prepared By | C.L. | | |

| | | PRODUCT SE |
|---------------|--------------------------------|------------|
| Category | Compact Area Light | |
| category | compact/wed light | |
| Item Number | 9495 | |
| Stock Code | FXCAL150/850/BZ/3S | |
| Mounting | PM8 / Slip Fitter / Yoke Mount | |
| Housing Color | Bronze (RAL#8019) | |



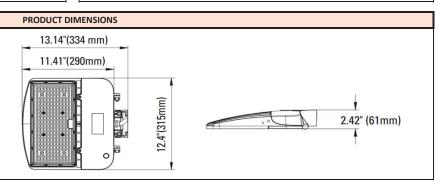
| ELECTRICAL CHARACTERISTICS | | | | | | |
|----------------------------|--------------|----------------------------|-----------|--|--|--|
| Rated Wattage (W) | 150 | | | | | |
| Tested Wattage (W) | 150 | Replacement Wattage (W) | 400 ~ 575 | | | |
| Input Voltage (V) | 100 ~ 277 | | | | | |
| Voltage Frequency (Hz) | 50/60 | Surge Protect Level | 6KV | | | |
| Input Current (A) | 1.25 (@120V) | Dimmable | 1-10V | | | |
| Power Factor | >0.9 | AUX (12V) Line | No | | | |
| THD | ≤ 20% | | | | | |

| | PHOTOMETRIC CHARACTERISTICS | | | | | |
|-----------------|-----------------------------|----------------|-------------|--|--|--|
| Lumen (Im) | 21,150 | ССТ (К) | 5000 | | | |
| Efficacy (lm/w) | 141 | Beam Angle (°) | NEMA Type 3 | | | |
| CRI | >80 | | | | | |
| | 1 | 1 | | | | |

| | GENERAL CHARACTERISTICS | | | | |
|----------------------------|-------------------------|--|--|--|--|
| Operating Temperature (°F) | -40 ~ 113 | | | | |
| Storage Temperature (°F) | -40 ~ 158 | | | | |
| IP Rating | IP65 | | | | |
| IK Rating | IK09 | | | | |
| Rated Life | 50000 hrs. | | | | |
| Warranty | 5 Years | | | | |

| ACCESSORIES | | | | | |
|----------------------------------|----------------|----------------------------------|--|--|--|
| Item# | Stock Code | Description | | | |
| P10365 | MT-CAL/PM8/BZ | 8" Pole Mount Arm | | | |
| P10366 | MT-CAL/SF/BZ | Slip Fitter Mount | | | |
| P10367 | MT-CAL/YK13/BZ | Yoke Mount | | | |
| K379200 | MT-CAL/WM/BZ | Wall Mount Kit (P10379 + P10200) | | | |
| *See Page 2 for more accessories | | | | | |

| Width- in (mm) | 12.4" | (315mm) |
|----------------------|--------|-----------|
| Height- in (mm) | 2.42" | (61.47mm) |
| Length- in (mm) | 13.14" | (334mm) |
| EPA (ft²) | 1 | .357 |
| Weight (lbs) | (| 5.48 |
| Mounting Height (ft) | 15~30 | |
| Cable Length (ft) | 6 | |



| CERTIFICATIONS | | | | | |
|----------------------|--------------|------|---|--|--|
| UL/ETL | UL/cUL | CEC | | | |
| NSF / ETL Sanitation | | JA8 | | | |
| Energy Star | | FCC | ✓ | | |
| DLC | V5.1 Premium | RoHs | ✓ | | |

| DOCUMENTS | | | | | |
|-----------|---|-------------|---|--|--|
| LM79 | ✓ | IES File | / | | |
| LM80 | ✓ | Dimmer List | | | |
| | | | | | |
| | | | | | |



| Version | 2.0 | Date | 6/14/2021 |
|-------------|------|------|-----------|
| Prepared By | C.L. | | |

| ACCESSORIES | | | |
|-------------|---------------------|--|--|
| Item # | Stock Code | Description | |
| K141030 | REC3PLK/PHO | Photocell Kit (P10141 + P10030) | |
| P10142 | REC7PLK | Twist Lock Receptacle | |
| P10053 | SEN-PHO-LK-MT-SRT | Shorting Cap | |
| P10389 | SPD-L-10KV-277 | 10KV Surge protection - 120V ~ 277V | |
| P10390 | SPL-L-20KV-277 | 20KV Surge Protection - 120V ~ 277V | |
| P10398 | LENS-CAL-IV | Type IV Lens | |
| P10399 | LENS-CAL-V | Type V Lens | |
| P10405 | GSFB-CAL/BZ | Glare Shield | |
| P10387 | SEN-BRI823-B-D | 120V ~ 277V PIR Sensor (1-10V dimming) | |
| P10316 | SEN-BRI-RC100 | Remote Programmer for P10387 | |
| P10259 | SEN-ON-SRP281 | Remote Programmer for grouping/zoning sensor | |
| K368258 | PLT/SBZ/CAL/LRD9SWC | Motion sensor Kit (P10368 + P10258) | |
| K368370 | PLT/SBZ/CAL/BRD9SWC | Motion sensor Kit (P10368 + P10370) | |
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| COMMENTS |
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| Version | 2.0 | Date | 6/24/2021 |
|-------------|------|------|-----------|
| Prepared By | C.L. | | |

| | | PRODUCT S |
|---------------|-----------------------------|-----------|
| Category | y Post Top | |
| Item Number | 9571 | |
| Stock Code | FX15PST34SW/8CCT3/BK | |
| Mounting | Pole - Fits 2 3/8"-3" Tenon | |
| Housing Color | Black | |



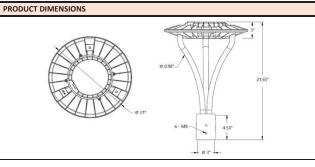
| ELECTRICAL CHARACTERISTICS | | | | |
|----------------------------|--------------|----------------------------|---------|--|
| Rated Wattage (W) | 34 / 28 / 20 | | | |
| Tested Wattage (W) | 34 | Replacement Wattage (W) | 150 | |
| Input Voltage (V) | 100 ~ 277 | | | |
| Voltage Frequency (Hz) | 50/60 | Surge Protect Level | 4KV | |
| Input Current (A) | 0.28 (@120V) | Dimmable | 0 ~ 10V | |
| Power Factor | >0.9 | AUX (12V) Line | No | |
| THD | ≤ 20% | | | |

| PHOTOMETRIC CHARACTERISTICS | | | | |
|-----------------------------|--------------------|----------------|--------------------|--|
| Lumen (Im) | 5262 / 4200 / 3004 | ССТ (К) | 3000 / 4000 / 5000 | |
| Efficacy (lm/w) | 150 | Beam Angle (°) | 110 | |
| CRI | > 80 | | | |
| | | | | |

| GENERAL CHARACTERISTICS | | |
|----------------------------|---------------|--|
| Operating Temperature (°F) | -40°F ~ 122°F | |
| Storage Temperature (°F) | -40°F∼158°F | |
| IP Rating | IP65 | |
| Rated Life | 50000 | |
| Warranty | 5 Years | |
| | | |

| ACCESSORIES | | | | |
|-------------|----------------|-----------------------------------|--|--|
| Item # | Stock Code | Description | | |
| P10389 | SPD-L-10KV-277 | 10KV surge protector - 120 ~ 277V | | |
| P10390 | SPD-L-20KV-277 | 20KV surge protector - 120 ~ 277V | | |
| | | | | |
| | | | | |
| | | | | |

| Width- in (mm) | 15" | (380mm) | |
|----------------------|--------|---------|--|
| Height- in (mm) | 21.65" | (550mm) | |
| Depth- in (mm) | 15" | (380mm) | |
| EPA (ft²) | 0.582 | | |
| Weight (lbs) | 8 | 3.8 | |
| Mounting Height (ft) | 8 | ~ 15 | |
| Cable Length (ft) | | | |



| | | | QUALIF |
|--------------------|-------------|------|--------|
| UL/ETL | ETL/cETL | CEC | |
| NSF/ETL Sanitation | | JA8 | |
| Energy Star | | FCC | ✓ |
| DLC | 5.1 Premium | RoHs | ✓ |

| FIC | ICATIONS | | | | |
|-----|----------|---|-------------|---|--|
| | LM79 | | IES File | 1 | |
| | LM80 | 1 | Dimmer List | | |
| | | | | | |
| | | | | | |

COMMENTS



| Version | 2.0 | Date | 6/24/2021 |
|-------------|------|------|-----------|
| Prepared By | C.L. | | |

| | | PRODUCT S |
|---------------|-----------------------------|-----------|
| Category | Post Top | |
| Item Number | 9572 | |
| Stock Code | FX15PST100SW/8CCT3/BK | |
| Mounting | Pole - Fits 2 3/8"-3" Tenon | |
| Housing Color | Black | |



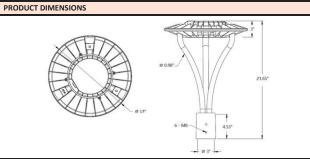
| ELECTRICAL CHARACTERISTICS | | | | |
|----------------------------|---------------|----------------------------|-----------|--|
| Rated Wattage (W) | 100 / 80 / 60 | | | |
| Tested Wattage (W) | 100 | Replacement Wattage (W) | 250 ~ 400 | |
| Input Voltage (V) | 100 ~ 277 | | | |
| Voltage Frequency (Hz) | 50/60 | Surge Protect Level | 4KV | |
| Input Current (A) | 0.83 (@120V) | Dimmable | 0 ~ 10V | |
| Power Factor | >0.9 | AUX (12V) Line | No | |
| THD | ≤ 20% | | | |

| PHOTOMETRIC CHARACTERISTICS | | | | |
|-----------------------------|----------------------|----------------|--------------------|--|
| Lumen (lm) | 13361 / 10400 / 8104 | ССТ (К) | 3000 / 4000 / 5000 | |
| Efficacy (lm/w) | 130 | Beam Angle (°) | 110 | |
| CRI | >80 | | | |
| | | | | |

| GENERAL CHARACTERISTICS | | | |
|----------------------------|---------------|--|--|
| Operating Temperature (°F) | -40°F ~ 122°F | | |
| Storage Temperature (°F) | -40°F ~ 158°F | | |
| IP Rating | IP65 | | |
| Rated Life | 50000 | | |
| Warranty | 5 Years | | |
| | | | |

| ACCESSORIES | | | |
|-------------|----------------|-----------------------------------|--|
| Item # | Stock Code | Description | |
| P10389 | SPD-L-10KV-277 | 10KV surge protector - 120 ~ 277V | |
| P10390 | SPD-L-20KV-277 | 20KV surge protector - 120 ~ 277V | |
| | | | |
| | | | |
| | | | |

| Width- in (mm) | 15" | (380mm) | |
|----------------------|--------|---------|--|
| Height- in (mm) | 21.65" | (550mm) | |
| Depth- in (mm) | 15" | (380mm) | |
| EPA (ft²) | 0.582 | | |
| Weight (lbs) | 8.8 | | |
| Mounting Height (ft) | 8~15 | | |
| Cable Length (ft) | | | |



| QUALI | | | |
|--------------------|-------------|------|---|
| UL/ETL | ETL/cETL | CEC | |
| NSF/ETL Sanitation | | JA8 | |
| Energy Star | | FCC | ✓ |
| DLC | 5.1 Premium | RoHs | ✓ |

| FIC | FICATIONS | | | |
|-----|-----------|---|-------------|---|
| | LM79 | | IES File | 1 |
| | LM80 | 1 | Dimmer List | |
| | | | | |
| | | | | |

COMMENTS





KT-LED24T8-60GC-840-D

T8 LED LAMP

DESCRIPTION

24W T8 LED | 4000K | >83 CRI | High Efficiency



PRODUCT FEATURES

- Replacement for Conventional Fluorescent Lamp
- 50,000+ Hour Lifetime
- Approximately 40% More Energy Efficient that Standard F32T8 Lamps
- Environmentally Friendly: No Mercury Used
- Instant Startup
- Frosted Lens Eliminates Pixelation
- UL Classified
- Operating Temperature: -20°C/-4°F to 45°C/113°F













- Integral Driver (Isolated), Eliminates the Need for External Driver or Ballast
- 100+ Lumens per Watt
- Improved Lamp Durability with Shatterproof Coated Glass, designed to pass drop tests of 6' on hard surface
- ETL Sanitation Listed NSF/ANSI Standard 2 Food Equipment, Splash Zone (Not for Direct Food Zone without additional fixture considerations)

OPERATING SPECIFICATIONS

ELECTRICAL CHARACTERISTICS

| Input Voltage | Power Consumption | Power Factor | Input Current |
|---------------|-------------------|--------------|------------------------------|
| 120-277Vac | 24W | >0.9 | 0.20A @ 120V 0.08A @ 277V |

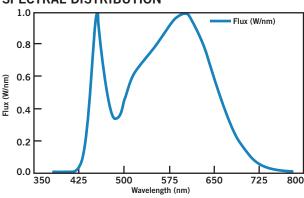
RATED LIFE

| L70 (Hours) | 50.000 |
|-------------|--------|

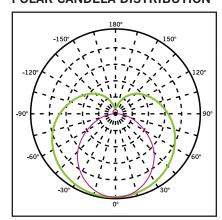
PHOTOMETRIC CHARACTERISTICS

| Color Temperature (CCT) | 4000K |
|-----------------------------|----------|
| Luminous Flux | 2400 lm |
| Color Rendering Index (CRI) | >83 |
| Efficacy | 100 lm/W |
| Beam Angle | 240° |
| Visible Light Area | 325° |

SPECTRAL DISTRIBUTION



POLAR CANDELA DISTRIBUTION



- 1. Violet Vertical Plane through Horizontal Angles (90-270)
- 2. Green Vertical Plane through Horizontal Angles (0-180)

Keystone Technologies • 1390 Welsh Road, North Wales, PA 19454 • Phone (800) 464-2680 • Fax (888) 966-0556 • www.keystonetech.com



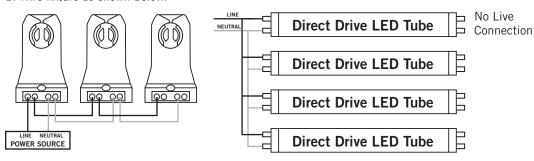


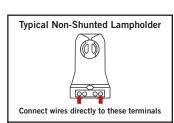
KT-LED24T8-60GC-840-D

T8 LED LAMP

WIRING DIAGRAMS

1. Wire fixture as shown below.





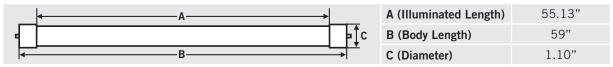
CAUTION: Use only non-shunted lampholders.

Do not install product in a fixture with shunted lampholders (found in all fixtures using instant start ballasts). If the current lampholders are shunted, remove them and replace them with non-shunted lampholders. Make new connections directly to terminals as indicated above.

Keystone can provide any style replacement lampholders. Call us at 800-464-2680.

PHYSICAL CHARACTERISTICS

LAMP DIMENSIONS



NOMINAL LENGTH: 60" BASE TYPE: G13 (Medium Bi-Pin)

ORDERING INFORMATION

| ORDER CODE | PACKAGING STYLE | PACK QTY. | ITEM STATUS |
|--------------------------|-----------------------------------|-----------|-------------|
| KT-LED24T8-60GC-840-D-CP | Carton Pack (Egg Crate Packaging) | 25 | Quick Ship |

CATALOG NUMBER BREAKDOWN





Nano Plastic Lamp

Commercial Grade LED T8 Lamp













Features & Benefits

- Shatterproof Nano Plastic Tube
- NSF2 Rated
- No rewiring needed
- Works with fluorescent electronic ballast (Instant Start, Programmed Start, and Dimming)*
- Long life
- High CRI
- Instant on, no delay
- Convenient and quick installation
- Utilizes existing instant start or rapid start sockets
- Compatible with controls and sensors
- Dimmable
- Works in cold temperature applications
- Suitable for damp locations
- Nano-Plastic tube for superior optical performance
- 5 Year Warranty

EMERGENCY BALLAST RESTRICTIONS

Specification (With Normal Ballast Factor)

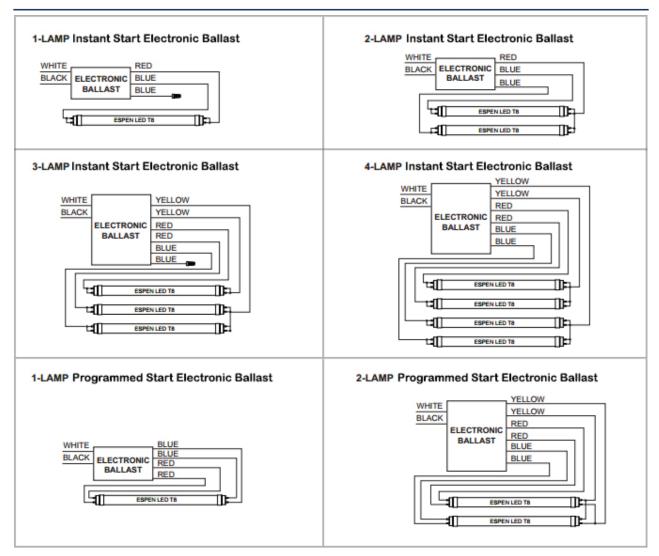
| Order Code | Length | Lamp Wattage | System Wattage | ССТ | Initial Lumens | CRI | Beam Angle | Lamp Efficacy | System Efficacy | Life |
|------------------|--------|-----------------|-------------------|-------|-------------------|-----|---------------|------------------|--------------------|-------|
| L24T8/830/12P-EB | 24 | 9 | 12 | 3000K | 1500 | 83 | 325 | 166 | 125 | 50000 |
| L24T8/835/12P-EB | 24 | 9 | 12 | 3500K | 1500 | 83 | 325 | 166 | 125 | 50000 |
| L24T8/840/12P-EB | 24 | 9 | 12 | 4000K | 1500 | 83 | 325 | 166 | 125 | 50000 |
| L24T8/850/12P-EB | 24 | 9 | 12 | 5000K | 1500 | 83 | 325 | 166 | 125 | 50000 |

System Performance

| | | Low Ball | last Facto | r | High Ballast Factor | | | | |
|------------------|---------------|----------|-----------------|------------------|---------------------|--|--|------------------|--|
| Lamp Model | Lamp Power | | Lumen Output | Lamp Efficacy | Lamp Power | | | Lamp Efficacy | |
| L24T8/830/12P-EB | | | | | | | | | |
| L24T8/835/12P-EB | | | | | | | | | |
| L24T8/840/12P-EB | | | | | | | | | |
| L24T8/850/12P-EB | | | | | | | | | |

Wiring Diagram





Dlc Information

| Order Code | DLC Product ID | DLC Product Model | DLC Version |
|------------------|----------------|-------------------|-------------|
| L24T8/830/12P-EB | PL64Y897CKUW | L24T8/830/12P-EB | 5 |
| L24T8/835/12P-EB | PL661HGAXGNN | L24T8/835/12P-EB | 5 |
| L24T8/840/12P-EB | PL1MSMZRBOUP | L24T8/840/12P-EB | 5 |
| L24T8/850/12P-EB | PLOGTDXM83F4 | L24T8/850/12P-EB | 5 |

* Please refer to "Ballast Compatibility List" for compatible models.

Specification data is based on tests performed in a controlled environment and represents relative performance. Actual performance can vary depending on operating conditions. Application and performance data subject to change without notice. All specifications are nominal unless noted otherwise.



Nano Plastic Lamp

Commercial Grade LED T8 Lamp





EMERGENCY BALLAST RESTRICTIONS









Features & Benefits

- Shatterproof Nano Plastic Tube
- NSF2 Rated
- No rewiring needed
- Works with fluorescent electronic ballast (Instant Start, Programmed Start, and Dimming)*
- Long life
- High CRI
- Instant on, no delay
- · Convenient and quick installation
- Utilizes existing instant start or rapid start sockets
- Compatible with controls and sensors
- Dimmable
- Works in cold temperature applications
- Suitable for damp locations
- Nano-Plastic tube for superior optical performance
- 5 Year Warranty

Specification (With Normal Ballast Factor)

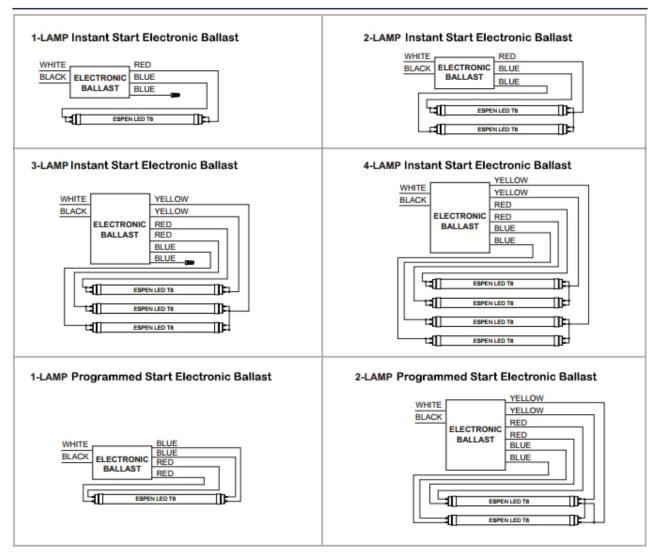
| Order Code | Length | Lamp Wattage | System Wattage | ССТ | Initial Lumens | CRI | Beam Angle | Lamp Efficacy | System Efficacy | Life |
|------------------|--------|-----------------|-------------------|-------|-------------------|-----|---------------|------------------|--------------------|-------|
| L36T8/830/12P-EB | 36 | 12 | 14 | 3000K | 1700 | 83 | 325 | 135 | 120 | 50000 |
| L36T8/835/12P-EB | 36 | 12 | 14 | 3500K | 1700 | 83 | 325 | 135 | 120 | 50000 |
| L36T8/840/12P-EB | 36 | 12 | 14 | 4000K | 1700 | 83 | 325 | 135 | 120 | 50000 |
| L36T8/850/12P-EB | 36 | 12 | 14 | 5000K | 1700 | 83 | 325 | 135 | 120 | 50000 |

System Performance

| | | Low Ball | last Facto | \mathbf{r} | High Ballast Factor | | | | |
|------------------|---------------|----------|-----------------|------------------|---------------------|--|--|------------------|--|
| Lamp Model | Lamp Power | | Lumen Output | Lamp Efficacy | Lamp Power | | | Lamp Efficacy | |
| L36T8/830/12P-EB | | | | | | | | | |
| L36T8/835/12P-EB | | | | | | | | | |
| L36T8/840/12P-EB | | | | | | | | | |
| L36T8/850/12P-EB | | | | | | | | | |

Wiring Diagram





Dlc Information

| Order Code | DLC Product ID | DLC Product Model | DLC Version |
|------------------|----------------|-------------------|-------------|
| L36T8/830/12P-EB | PZQQYEVF | L36T8/830/12P-EB | 5 |
| L36T8/835/12P-EB | PKMIEMK9 | L36T8/835/12P-EB | 5 |
| L36T8/840/12P-EB | P8UVZZQX | L36T8/840/12P-EB | 5 |
| L36T8/850/12P-EB | P6E6AP75 | L36T8/850/12P-EB | 5 |

* Please refer to "Ballast Compatibility List" for compatible models.

Specification data is based on tests performed in a controlled environment and represents relative performance. Actual performance can vary depending on operating conditions. Application and performance data subject to change without notice. All specifications are nominal unless noted otherwise.



Features & Benefits

- Assembled in USA
- · No rewiring needed
- Works with fluorescent electronic ballast (Instant Start, Programmed Start, and Dimming)*
- Long life
- High CRI
- Instant on, no delay
- Convenient and quick installation
- Utilizes existing instant start or rapid start sockets
- Compatible with controls and sensors
- Dimmable
- Works in cold temperature applications
- Super wide view angle
- 5 Year Warranty
- High performance plastic series







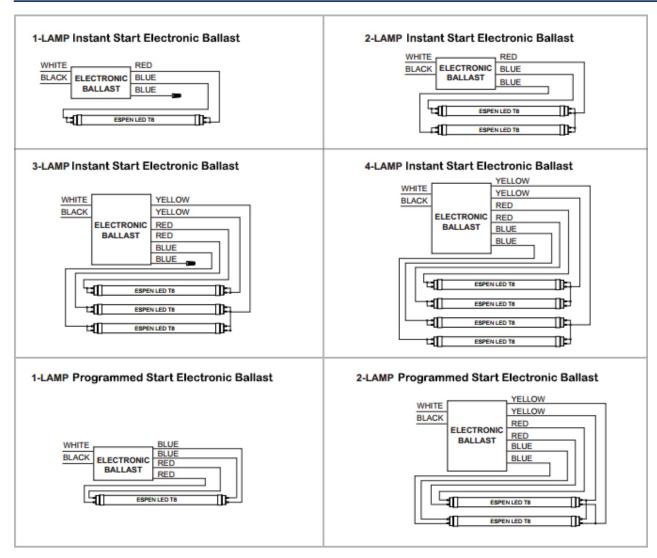


Specification Data

| Order Code | Length | Lamp Wattage | System Wattage | сст | Initial Lumens | CRI | Beam Angle | Lamp Efficacy | System Efficacy | Life | OLG |
|------------------|--------|-----------------|-------------------|-------|-------------------|-----|---------------|------------------|--------------------|-------|------------|
| L48T8/835/12P-EB | 48 | 12 | 14 | 3500K | 1800 | 83 | 325 | 135 | 125 | 50000 | Yes |
| L48T8/840/12P-EB | 48 | 12 | 14 | 4000K | 1800 | 83 | 325 | 135 | 125 | 50000 | Yes |
| L48T8/850/12P-EB | 48 | 12 | 14 | 5000K | 1800 | 83 | 325 | 135 | 125 | 50000 | Yes |

Wiring diagram





- * Not compatible with products equipped with battery backup and/or emergency ballasts.
- * Please refer to "Ballast Compatibility List" on Related Downloads.

Specification data is based on tests performed in a controlled environment and represents relative performance. Actual performance can vary depending on operating conditions. Application and performance data subject to change without notice. All specifications are nominal unless noted otherwise.



Features & Benefits

Type A and B Lamp Internal driver for direct 120-277 VAc Input

Double ended type B Input Works with fluorescent electronic ballast (Instant Start and Programmed Start)

Long life High CRI

Instant on, no delay

Convenient and quick installation

Utilizes existing instant start or rapid start sockets

Works with dimming ballast

Compatible with controls and sensors Works in cold temperature applications





Specification Data

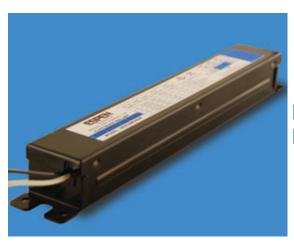
| Order Code | Length | Power w/ Ballast | Input Voltage (Depend on Ballast) | сст | Initial Lumens | CRI | Beam Angle | Lamp Efficacy Direct AC | System Efficacy w/ Ballast | Life | DEC |
|---------------------|--------|------------------------|--|-------|-------------------|-----|---------------|-------------------------------|----------------------------------|--------|-----|
| LB48T8U6/830/13P-AB | 24 | 16 | 120/277V | 3000K | 1800 | 83 | 240 | 138 | 112 | 50,000 | Yes |
| LB48T8U6/835/13P-AB | 24 | 16 | 120/277V | 3500K | 1800 | 83 | 240 | 138 | 112 | 50,000 | Yes |
| LB48T8U6/840/13P-AB | 24 | 16 | 120/277V | 4000K | 1800 | 83 | 240 | 138 | 112 | 50,000 | Yes |
| LB48T8U6/850/13P-AB | 24 | 16 | 120/277V | 5000K | 1800 | 83 | 240 | 138 | 112 | 50,000 | Yes |

* Please check ballast compatibility list before installation.

Specification data is based on tests performed in a controlled environment and represents relative performance. Actual performance can vary depending on operating conditions. Application and performance data subject to change without notice. All specifications are nominal unless noted otherwise.



Fluorescent Ballasts



Electronic Ballasts

Product Info

VE2P32MVHIPE

Family Elite

Ballast Type Electronic

Lamp Operation

Parallel

Input Voltage

120/277V

Starting Method

Instant Start

Product Specification



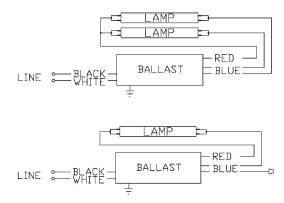
| Lamp Type | No. of Lamps | Input Voltage (V) | Input Current (A) | Input Power (W) | Power Factor | MAX THD (%) | Ballast Factor | Min. Starting Temp.(F/C) | Lamp Current Crest Factor | B.E.F. |
|-----------------|-----------------|-------------------------|-------------------------|-----------------------|-----------------|-------------------|-------------------|--------------------------------|------------------------------------|-----------|
| F32T8/ES 28W | 2 | 120/277 | 0.17/0.08 | 51 | 0.98 | 10/15 | 1.05 | 0 | 1.7 | 1.59/1.60 |
| F17T8 17W | 2 | 120/277 | 0.37/0.16 | 30 | 0.98 | 10 | 0.89 | 0 | 1.7 | |
| F25T8 25W | 2 | 120/277 | 0.43/0.19 | 55/54 | 0.98 | 10 | 1.06 | 0 | 1.7 | 1.82/1.70 |
| F32T8/ES 30W | 1 | 120/277 | 0.26/0.11 | 28 | 0.98 | 10 | 0.88 | 0 | 1.7 | |
| F17T8 17W | 2 | 120/277 | 0.46/0.20 | 49/47 | 0.98 | 10 | 0.89 | 0 | 1.7 | |
| F32T8 32W | 1 | 120/277 | 0.23/0.10 | 19 | 0.98 | 10 | 0.9 | 0 | 1.7 | 1.74/1.70 |
| F25T8 25W | 2 | 120/277 | 0.41/0.18 | 43 | 0.98 | 10 | 0.89 | 0 | 1.7 | |
| F40T8 40W | 1 | 120/277 | 0.35/0.15 | 33 | 0.98 | 10 | 1.01 | 0 | 1.7 | |
| F32T8 32W | 1 | 120/277 | 0.30/0.13 | 41 | 0.98 | 10 | 1.05 | 0 | 1.7 | |
| F32T8/ES 25W | 1 | 120/277 | 0.23/0.10 | 35 | 0.98 | 10 | 1.05 | 0 | 1.7 | |
| F32T8/ES 25W | 1 | 120/277 | 0.39/0.17 | 27 | 0.98 | 10 | 0.89 | 0 | 1.7 | |
| F32T8/ES 28W | 1 | 120/277 | 0.26/0.11 | 44 | 0.98 | 10 | 1.05 | 0 | 1.7 | |
| F32T8/ES 30W | 2 | 120/277 | 0.28/0.12 | 31 | 0.98 | 10 | 1.05 | 0 | 1.7 | |

Physical Parameters

| | | Lead Length | in.(+/-1.0) |
|-----------|------|-------------|-------------|
| Enclosure | (in) | Black | |
| Length | 9.5 | White | |
| Width | 1.3 | | |
| Height | 1 | Red | |
| Mounting | 8.91 | Blue | |
| Mounting | 0.31 | Yellow | |



Wiring Diagram





Fluorescent Ballasts



Electronic Ballasts

Product Info

VE3P32MVHIPE

Family Elite

Ballast Type Electronic

Lamp Operation

Parallel

Input Voltage

120/277V

Starting Method

Instant Start

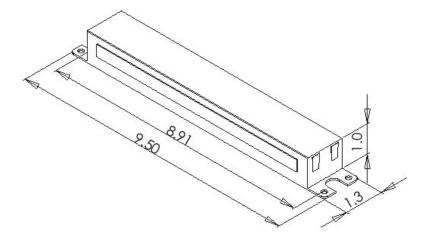
Product Specification



| Lamp Type | No. of Lamps | Input Voltage (V) | Input Current (A) | Input Power (W) | Power Factor | MAX THD (%) | Ballast Factor | Min. Starting Temp.(F/C) | Lamp Current Crest Factor | B.E.F. |
|-----------------|-----------------|-------------------------|-------------------------|-----------------------|-----------------|-------------------|-------------------|--------------------------------|------------------------------------|-----------|
| F17T8 17W | 3 | 120/277 | 0.31/0.14 | 84/83 | 0.98 | 10 | 0.9 | 0 | 1.7 | |
| F17T8 | 3 | 120/277 | 0.71/0.31 | 65 | 0.98 | 10 | 1.02 | 0 | 1.7 | |
| F32T8 32W | 2 | 120/277 | 0.55/0.24 | 50 | 0.98 | 10 | 0.92 | 0 | 1.7 | |
| F25T8 25W | 3 | 120/277 | 0.43/0.19 | 46 | 0.98 | 10 | 1.07 | 0 | 1.7 | |
| F25T8 25W | 2 | 120/277 | 0.39/0.18 | 36 | 0.98 | 15 | 0.88 | 0 | 1.7 | 1.05/1.06 |
| F40T8 40W | 2 | 120/277 | 0.65/0.28 | 50 | 0.98 | 10 | 1.03 | 0 | 1.7 | |
| F32T8/ES 30W | 3 | 120/277 | 0.68/0.29 | 63 | 0.98 | 10 | 0.88 | 0 | 1.7 | |
| F32T8/ES 30W | 2 | 120/277 | 0.49/0.22 | 75/74 | 0.98 | 10 | 1.02 | 0 | 1.7 | |
| F32T8/ES 28W | 2 | 120/277 | 0.63/0.27 | 80 | 0.98 | 10 | 0.88 | 0 | 1.7 | |
| F32T8/ES 28W | 2 | 120/277 | 0.47/0.21 | 59 | 0.98 | 10 | 1.02 | 0 | 1.7 | |
| F32T8/ES 25W | 3 | 120/277 | 0.56/0.24 | 74 | 0.98 | 10 | 0.88 | 0 | 1.7 | |
| F32T8/ES 25W | 2 | 120/277 | 0.43/0.19 | 56 | 0.98 | 10 | 1.02 | 0 | 1.7 | |
| F32T8 32W | 3 | 120/277 | 0.53/0.24 | 66 | 0.98 | 10 | 1.02 | 0 | 1.7 | |

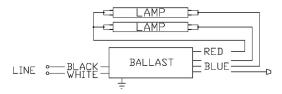
Physical Parameters

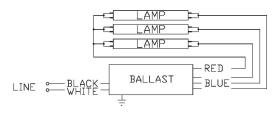




| Enclosure | (in) | Lead Length | in.(+/-1.0) |
|-----------|------|----------------|-------------|
| Length | 9.5 | Black | 12 |
| Width | 1.3 | White | 12 |
| Height | 1 | Red | 36 |
| Mounting | 8.91 | Blue | 24 |
| _ | | Yellow | N/A |
| | | | |

Wiring Diagram





www.espentech.com



CRI80

Commercial Grade Recessed Downlight



Features & Benifits

- Commercial Downlight Retrofit or New Construction
- Universal Voltage 120-277V
- UL for Safety, Wet-Location Rateds
- Three Adjustable Lumen Output
- Three Adjustable CCT Options (3000K, 3500K, 4000K)
- Driver Efficiency Greater than 85% at full power
- THD \leq 20% at full power
- High CRI
- Long Life
- Convenient and quick installation
- 0-10V Dimmable
- 25" Flexible Conduit
- Auto Recovery Short Circuit Protection, Over Load Protection, Over Voltage Protection
- Ambient Operating Temperature: $-30 \sim 40$ °C
- Works in cold temperature applications
- Flicker-Free, Meets IEEE 1789-2015
- 5 Year Warranty

Specification Data

| Model No. | Size | IC Rated | Watts | Lumens | сст | Efficacy | Input Voltage | CRI | Power Factor | Beam Angle (°) | Dimension |
|-------------------|--------------|-------------|-----------------|-------------------------|---|----------|------------------|-----|-----------------|----------------------|---------------------------------|
| VEKR6D/8T/13W-10V | 6" Recess | Yes | 6.5 / 9 / 13 | 790 / 1100 / 1560 | 3000K, 3500K, 4000K selectable | 120 | 120-277 | >80 | 0.9 | 100 | Dia. 8.27" x Height 4.25" |

Order Information

| EXAMPLE: VEKR4D/8T/10W-10V | | | | | | | | | |
|---|--------------------------------|--------------------------------|----------------------------|------------------|--|--|--|--|--|
| VEKR | 4D | 8T | 10W | 10V | | | | | |
| Series Retrofit Kit Recessed Light | Size 4" Downlight | CRI>80 T: three CCT adjustable | Wattage 10W Max. | 0-10V dimming | | | | | |

Image





 $User\ Manual \underline{468 in Downlight Installation.pdf}$



CRI80

Commercial Grade Recessed Downlight



Features & Benifits

- Commercial Downlight Retrofit or New Construction
- Universal Voltage 120-277V
- UL for Safety, Wet-Location Rateds
- Three Adjustable Lumen Output
- Three Adjustable CCT Options (3000K, 3500K, 4000K)
- Driver Efficiency Greater than 85% at full power
- THD \leq 20% at full power
- High CRI
- Long Life
- Convenient and quick installation
- 0-10V Dimmable
- 25" Flexible Conduit
- Auto Recovery Short Circuit Protection, Over Load Protection, Over Voltage Protection
- Ambient Operating Temperature: $-30 \sim 40$ °C
- Works in cold temperature applications
- Flicker-Free, Meets IEEE 1789-2015
- 5 Year Warranty

Specification Data

| Model No. | Size | IC Rated | Watts | Lumens | ССТ | Efficacy | Input Voltage | CRI | Power Factor | Beam Angle (°) | Dimension |
|-------------------|--------------|-------------|---------------------|--------------------------|---|----------|------------------|-----|-----------------|----------------------|----------------------------------|
| VEKR8D/8T/17W-10V | 8" Recess | Yes | 8.5 / 12 / 17 | 1030 / 1450 / 2040 | 3000K, 3500K, 4000K selectable | 120 | 120-277 | >80 | 0.9 | 100 | Dia. 10.24" x Height 4.57" |

Order Information

| | EXAMPLE: VEKR4D/8T/10W-10V | | | | | | | | |
|---|--------------------------------|--------------------------------|----------------------------|------------------|--|--|--|--|--|
| VEKR | 4D | 8T | 10W | 10V | | | | | |
| Series Retrofit Kit Recessed Light | Size 4" Downlight | CRI>80 T: three CCT adjustable | Wattage 10W Max. | 0-10V dimming | | | | | |

Image





 $User\ Manual \underline{468 in Downlight Installation.pdf}$



Attachment C: Mechanical Systems San Bernardino County



| County | ounty of San Bernardino: High Desert Gov. Center: Replace Select HVAC Equipment with New Equipment | | | | | | | | | | | | | | | |
|-----------|--|---------------|-------------------------------------|---------|-----------------|-----------------------|---------------|-------------------|---------------------------|---------------------------|--|----------------------|------------------------|----------------|--|--|
| G | eneral In | formation | | Existin | g Equipment Dat | :a | | | | | Proposed Equipment Data | | | | | |
| ID Tag | Building | Unit Location | System Type | Make | Model | Size Tons (pre) | SEER (pre) | Unit Condition | Replace Unit? (Y/N) | Add Controls? (Y/N) | Proposed System Type | Proposed Make: Model | Size Tons (post) | SEER (post) | | |
| AC-1 | Main | Roof | Package Air Handler with DX Cooling | McQuay | RDT110DLW | 110 | 10.5 | Poor | Υ | N | New Package Unit with Hydronic Heating | Carrier: 50V3HQ98A1 | 110 | 16.5 | | |
| AC-2 | Main | Roof | Package Air Handler with DX Cooling | McQuay | RDT110DLW | 110 | 10.5 | Poor | Y | N | New Package Unit with Hydronic Heating | Carrier: 50V3HQ98A1 | 110 | 16.5 | | |
| No ID Tag | Main | Roof | HHW Boiler | Raypak | H3-0652B | 0 | - | Poor | Y | N | New Condensing HHW Boiler | Raypack: H7-606L | 0 | n/a | | |
| No ID Tag | Main | Roof | HHW Boiler | Raypak | H3-0652B | 0 | - | Poor | Υ | N | New Condensing HHW Boiler | Raypack: H7-606L | 0 | n/a | | |
| 1 | Main | Roof | HHW Pump | - | - | 0 | - | Poor | Υ | N | New HHW Pump | TBD: - | 0 | n/a | | |
| 2 | Main | Roof | HHW Pump | = | - | 0 | - | Poor | Υ | N | New HHW Pump | TBD: - | 0 | n/a | | |



| County | ounty of San Bernardino: Sheriff Headquarters: Replace Select HVAC Equipment with New Equipment | | | | | | | | | | | | | | | |
|--------|---|---------------|-----------------------------|---------|-----------------|-----------------------|---------------|-------------------|---------------------------|---------------------------|----------------------------------|-----------------------------|------------------------|----------------|--|--|
| G | eneral In | formation | | Existin | g Equipment Dat | а | | | | | Proposed Equipment Data | | | | | |
| ID Tag | Building | Unit Location | System Type | Make | Model | Size Tons (pre) | SEER (pre) | Unit Condition | Replace Unit? (Y/N) | Add Controls? (Y/N) | Proposed System Type | Proposed Make: Model | Size Tons (post) | SEER (post) | | |
| AHU-4 | Main | Roof | Air Handling Unit | Pace | P33AF/P40AFX | 51.9 | - | Poor | Υ | Υ | New Air Handler with VAV CHW/HHW | Carrier: 39MW36W02DZM914XCE | 51.9 | n/a | | |
| AHU-1 | Main | Roof | Air Handling Unit | Pace | P30AFX | 41.7 | - | Poor | Υ | Υ | New Air Handler with VAV CHW/HHW | Carrier: 39MW25W02DZM615XCE | 41.7 | n/a | | |
| AHU-5 | Main | Roof | Air Handling Unit | Pace | P24AFX | 28.0 | - | Poor | Y | Y | New Air Handler with VAV CHW/HHW | Carrier: 39NW17W02DZMB14XCE | 28.0 | n/a | | |
| AHU-3 | Main | Roof | Air Handling Unit | Pace | P36AFX | 72.3 | - | Poor | Υ | Υ | New Air Handler with VAV CHW/HHW | Carrier: 39MW50W02DZM814XCE | 72.3 | n/a | | |
| AHU-2 | Main | Roof | Air Handling Unit | Pace | P33AF/P40AFX | 56.1 | - | Poor | Y | Υ | New Air Handler with VAV CHW/HHW | Carrier: 39MW40W02DZM715XCE | 56.1 | n/a | | |
| AHU-6 | Main | Roof | Air Handling Unit | Pace | P36F/P44AFX | 68.6 | - | Poor | Y | Y | New Air Handler with VAV CHW/HHW | Carrier: 39MW50W02DZMC14XCE | 68.6 | n/a | | |
| AC-2 | Main | Roof | Package Unit (cooling only) | Trane | TCH300F4F0AB | 25 | 10.4 | Fair | Υ | Υ | New Package Unit (cooling only) | Carrier: 50GE-*28 | 25.0 | 17 | | |
| AC-1 | Main | Roof | Package Unit (cooling only) | Trane | TCH300F4F0AB | 25 | 10.4 | Fair | Υ | Υ | New Package Unit (cooling only) | Carrier: 50GE-*28 | 25.0 | 17 | | |
| AC-3 | Main | Roof | Package Unit (cooling only) | Trane | THC063A4B0A | 5 | 11.7 | Fair | Υ | Υ | New Package Unit (cooling only) | Carrier: 50GE-J06 | 5.0 | 17 | | |
| AC-4 | Main | Roof | Package Unit (cooling only) | Trane | THC06SA4B0A | 5 | 11.7 | Fair | Υ | Υ | New Package Unit (cooling only) | Carrier: 50GE-J06 | 5.0 | 17 | | |
| FC-1 | Main | Interior | Fan Coil Unit | - | - | 1.3 | - | Poor | Υ | Y | New Fan Coil Unit | Carrier: 1.25 Ton | 1.3 | n/a | | |
| FC-2 | Main | Interior | Fan Coil Unit | - | - | 1.0 | - | Poor | Υ | Υ | New Fan Coil Unit | Carrier: 1 Ton | 1.0 | n/a | | |
| FC-3 | Main | Interior | Fan Coil Unit | - | - | 1.0 | - | Poor | Υ | Y | New Fan Coil Unit | Carrier: 1 Ton | 1.0 | n/a | | |



| County | unty of San Bernardino: Coroner: Replace Select HVAC Equipment with New Equipment | | | | | | | | | | | | | | |
|---|---|---------------------|------------------|---------|-----------|---|---------------|-------------------|---------------------------|---------------------------|----------------------|----------------------|------------------------|----------------|--|
| General Information Existing Equipment Data | | | | | | | | Proposed | Equipment Data | | | | | | |
| ID Tag | Building | Unit Location | System Type | Make | Model | | SEER (pre) | Unit Condition | Replace Unit? (Y/N) | Add Controls? (Y/N) | Proposed System Type | Proposed Make: Model | Size Tons (post) | SEER (post) | |
| AC-11 | Main | Roof South Side | Gas Package Unit | Carrier | est 5-ton | 5 | 10.0 | Poor | Υ | N | New Gas Package Unit | Carrier: 48GE**06 | 5 | 17 | |
| AC-7 | Main | Roof South Side | Gas Package Unit | Carrier | 48HJM004 | 3 | 12.0 | Poor | Υ | N | New Gas Package Unit | Carrier: 48GE**04 | 3 | 17 | |
| AC-12 | Main | Roof South Side | Gas Package Unit | ICP | RGS072HDC | 6 | 11.7 | Poor | Y | N | New Gas Package Unit | Carrier: 48GE**07 | 6 | 17 | |
| AC-A | Main | Roof Center Parapet | Gas Package Unit | unknown | est 5-ton | 5 | 11.7 | Poor | Υ | N | New Gas Package Unit | Carrier: 48GE**06 | 5 | 17 | |
| AC-B | Main | Roof Center Parapet | Gas Package Unit | unknown | est 5-ton | 5 | 11.7 | Poor | Υ | N | New Gas Package Unit | Carrier: 48GE**06 | 5 | 17 | |
| AC-C | Main | Roof Center Parapet | Gas Package Unit | unknown | est 5-ton | 5 | 11.7 | Poor | Υ | N | New Gas Package Unit | Carrier: 48GE**06 | 5 | 17 | |



| County | ounty of San Bernardino: Old Crime Lab: Replace Select HVAC Equipment with New Equipment | | | | | | | | | | | | | | |
|--------|--|---------------|------------------|-------|------------|-----------------------|---------------|-------------------|---------------------------|---------------------------|----------------------|----------------------|------------------------|----------------|--|
| G | General Information Existing Equipment Data | | | | | | | | Proposed | Equipment Data | | | | | |
| ID Tag | Building | Unit Location | System Type | Make | Model | Size Tons (pre) | SEER (pre) | Unit Condition | Replace Unit? (Y/N) | Add Controls? (Y/N) | Proposed System Type | Proposed Make: Model | Size Tons (post) | SEER (post) | |
| AC-14 | Main | Roof | Gas Package Unit | ICP | PGD336060 | 3 | 11.7 | Poor | Υ | Υ | New Gas Package Unit | Carrier: 48NLNB36 | 3 | 15 | |
| AC-5 | Main | Roof | Gas Package Unit | Trane | YHC036 | 3 | 11.7 | Poor | Υ | Y | New Gas Package Unit | Carrier: 48GE**04 | 3 | 17 | |
| AC-6 | Main | Roof | Gas Package Unit | Trane | YHC036 | 3 | 11.7 | Poor | Υ | Y | New Gas Package Unit | Carrier: 48GE**04 | 3 | 17 | |
| AC-4 | Main | Roof | Gas Package Unit | Trane | YHC060 | 5 | 11.7 | Poor | Υ | Υ | New Gas Package Unit | Carrier: 48GE**06 | 5 | 17 | |
| AC-3 | Main | Roof | Gas Package Unit | Trane | YHC048A4RL | 4 | 11.7 | Poor | Υ | Υ | New Gas Package Unit | Carrier: 48GE**05 | 4 | 17 | |
| AC-2 | Main | Roof | Gas Package Unit | Trane | YHC072 | 6 | 11.7 | Poor | Υ | Υ | New Gas Package Unit | Carrier: 48GE**07 | 6 | 17 | |
| AC-1 | Main | Roof | Gas Package Unit | Trane | YHC036 | 3 | 11.7 | Poor | Υ | Υ | New Gas Package Unit | Carrier: 48GE**04 | 3 | 17 | |



| County | unty of San Bernardino: County Building: Replace Select HVAC Equipment with New Equipment | | | | | | | | | | | | | |
|--------|---|---------------|------------------------|---------|-----------------|-----------------------|---------------|------|---------------------------|---------------------------|----------------------------|----------------------|------------------------|----------------|
| Ge | eneral In | formation | | Existin | g Equipment Dat | a | | | | | Proposed | Equipment Data | | |
| ID Tag | Building | Unit Location | System Type | Make | Model | Size Tons (pre) | SEER (pre) | | Replace Unit? (Y/N) | Add Controls? (Y/N) | Proposed System Type | Proposed Make: Model | Size Tons (post) | SEER (post) |
| HP-24 | Main | Roof | Package Heat-Pump Unit | Carrier | 50HJQ005 | 4 | 11.7 | Poor | Y | Y | New Package Heat-Pump Unit | Carrier: 50GCQJ05 | 4 | 15.5 |
| HP-6 | Main | Roof | Package Heat-Pump Unit | Carrier | 50HJQ007 | 6 | 11.7 | Poor | Y | Y | New Package Heat-Pump Unit | Carrier: 50GCQM07 | 6 | 17 |
| HP-7 | Main | Roof | Package Heat-Pump Unit | Carrier | 50HJQ004 | 3 | 11.8 | Poor | Y | Y | New Package Heat-Pump Unit | Carrier: 50GCQJ04 | 3 | 15.5 |
| HP-8 | Main | Roof | Package Heat-Pump Unit | Carrier | 50HJQ005 | 4 | 11.7 | Poor | Y | Y | New Package Heat-Pump Unit | Carrier: 50GCQJ05 | 4 | 15.5 |
| HP-9 | Main | Roof | Package Heat-Pump Unit | Carrier | 50HJQ005 | 4 | 11.7 | Poor | Y | Y | New Package Heat-Pump Unit | Carrier: 50GCQJ05 | 4 | 15.5 |
| HP-22 | Main | Roof | Package Heat-Pump Unit | Carrier | 50HJQ007 | 6 | 10.5 | Poor | Y | Y | New Package Heat-Pump Unit | Carrier: 50GCQM07 | 6 | 17 |
| HP-16 | Main | Roof | Package Heat-Pump Unit | Carrier | 50HJQ006 | 5 | 11.7 | Poor | Y | Y | New Package Heat-Pump Unit | Carrier: 50GCQJ06 | 5 | 15.5 |
| HP-13 | Main | Roof | Package Heat-Pump Unit | Carrier | 50HJQ005 | 4 | 11.7 | Poor | Y | Υ | New Package Heat-Pump Unit | Carrier: 50GCQJ05 | 4 | 15.5 |
| HP-21 | Main | Roof | Package Heat-Pump Unit | Carrier | 50HJQ007 | 6 | 10.5 | Poor | Υ | Υ | New Package Heat-Pump Unit | Carrier: 50GCQM07 | 6 | 17 |
| HP-14 | Main | Roof | Package Heat-Pump Unit | Carrier | 50HJQ004 | 3 | 11.8 | Poor | Υ | Υ | New Package Heat-Pump Unit | Carrier: 50GCQJ04 | 3 | 15.5 |
| HP-15 | Main | Roof | Package Heat-Pump Unit | Carrier | 50HJQ006 | 5 | 11.7 | Poor | Y | Y | New Package Heat-Pump Unit | Carrier: 50GCQJ06 | 5 | 15.5 |
| HP-2 | Main | Roof | Package Heat-Pump Unit | Carrier | 50HJQ006 | 5 | 11.7 | Poor | Y | Y | New Package Heat-Pump Unit | Carrier: 50GCQJ06 | 5 | 15.5 |
| HP-3 | Main | Roof | Package Heat-Pump Unit | Carrier | 50HJQ005 | 4 | 11.7 | Poor | Υ | Υ | New Package Heat-Pump Unit | Carrier: 50GCQJ05 | 4 | 15.5 |
| HP-4 | Main | Roof | Package Heat-Pump Unit | Carrier | 50HJQ006 | 5 | 11.7 | Poor | Y | Y | New Package Heat-Pump Unit | Carrier: 50GCQJ06 | 5 | 15.5 |
| HP-1 | Main | Roof | Package Heat-Pump Unit | Carrier | 50HJQ007 | 6 | 10.5 | Poor | Υ | Υ | New Package Heat-Pump Unit | Carrier: 50GCQM07 | 6 | 17 |
| HP-5 | Main | Roof | Package Heat-Pump Unit | Carrier | 50HJQ007 | 6 | 10.5 | Poor | Υ | Υ | New Package Heat-Pump Unit | Carrier: 50GCQM07 | 6 | 17 |
| HP-23 | Main | Roof | Package Heat-Pump Unit | Carrier | 50HJQ004 | 3 | 11.8 | Poor | Y | Y | New Package Heat-Pump Unit | Carrier: 50GCQJ04 | 3 | 15.5 |
| HP-17 | Main | Roof | Package Heat-Pump Unit | Carrier | 50HJQ007 | 6 | 10.5 | Poor | Y | Υ | New Package Heat-Pump Unit | Carrier: 50GCQM07 | 6 | 15.5 |
| HP-11 | Main | Roof | Package Heat-Pump Unit | Carrier | 50HJQ004 | 3 | 11.8 | Poor | Y | Υ | New Package Heat-Pump Unit | Carrier: 50GCQJ04 | 3 | 15.5 |
| HP-18 | Main | Roof | Package Heat-Pump Unit | Carrier | 50HJQ007 | 6 | 10.5 | Poor | Y | Υ | New Package Heat-Pump Unit | Carrier: 50GCQM07 | 6 | 17 |
| HP-19 | Main | Roof | Package Heat-Pump Unit | Carrier | 50HJQ007 | 6 | 10.5 | Poor | Y | Y | New Package Heat-Pump Unit | Carrier: 50GCQM07 | 6 | 17 |
| HP-20 | Main | Roof | Package Heat-Pump Unit | Carrier | 50HJQ004 | 3 | 11.8 | Poor | Υ | Υ | New Package Heat-Pump Unit | Carrier: 50GCQJ04 | 3 | 15.5 |
| HP-25 | Main | Roof | Package Heat-Pump Unit | Carrier | 50JS-030 | 2.5 | 9.0 | Poor | Υ | Υ | New Package Heat-Pump Unit | Carrier: 50GCQJ04 | 2.5 | 15.5 |
| HP-10 | Main | Roof | Package Heat-Pump Unit | Carrier | 50HJQ007 | 6 | 10.5 | Poor | Υ | Υ | New Package Heat-Pump Unit | Carrier: 50GCQM07 | 6 | 17 |
| HP-12 | Main | Roof | Split Condenser | Carrier | 24ABR348A520 | 4 | 11.7 | Poor | Υ | Υ | New Split Heat-Pump | Carrier: 27SCA05 | 4 | 16 |



| County | ounty of San Bernardino: Department of Public Health: Replace Select HVAC Equipment with New Equipment | | | | | | | | | | | | | | |
|-----------|--|---------------|-----------------------------|---------|-----------------|-----------------------|---------------|-------------------|---------------------------|---------------------------|--|----------------------|------------------------|----------------|--|
| G | eneral In | formation | | Existin | g Equipment Dat | a | | | | | Proposed Equipment Data | | | | |
| ID Tag | Building | Unit Location | System Type | Make | Model | Size Tons (pre) | SEER (pre) | Unit Condition | Replace Unit? (Y/N) | Add Controls? (Y/N) | Proposed System Type | Proposed Make: Model | Size Tons (post) | SEER (post) | |
| AC-3 | Main | Roof | Package Unit (cooling only) | McQuay | RDT0900LY | 90 | 9.9 | Poor | Υ | N | New Package Unit with Hydronic Heating | Carrier: 50D3HQ98A1 | 90 | 16.5 | |
| AC-2 | Main | Roof | Package Unit (cooling only) | McQuay | RDT0900LY | 90 | 9.9 | Poor | Υ | N | New Package Unit with Hydronic Heating | Carrier: 50D3HQ98A1 | 90 | 16.5 | |
| AC-1 | Main | Roof | Package Unit (cooling only) | McQuay | RDT0900LY | 90 | 9.9 | Poor | Υ | N | New Package Unit with Hydronic Heating | Carrier: 50D3HQ98A1 | 90 | 16.5 | |
| B-2 | Main | Roof | HHW Boiler | Raypak | H9-1532 | 0 | - | Poor | Υ | N | New Condensing HHW Boiler | Raypak: H7-1507 | 0 | n/a | |
| P-1 | Main | Roof | HHW Pump | WEG | - | 0 | - | Poor | Υ | N | New HHW Pump | TBD: - | 0 | n/a | |
| B-1 | Main | Roof | HHW Boiler | Raypak | H9-1532 | 0 | - | Poor | Υ | N | New Condensing HHW Boiler | Raypak: H7-1507 | 0 | n/a | |
| P-2 | Main | Roof | HHW Pump | - | - | 0 | - | Poor | Υ | N | New HHW Pump | TBD: - | 0 | n/a | |
| AC-4 | Main | Roof | Package Unit (cooling only) | McQuay | RDT0900LY | 90 | 9.9 | Poor | Υ | N | New Package Unit with Hydronic Heating | Carrier: 50D3HQ98A1 | 90 | 16.5 | |
| No ID Tag | Main | Roof | Split Condenser | York | H1RC048S250 | 4 | 11.3 | Poor | Υ | N | New Split Heat-Pump | Carrier: 27SCA05 | 4 | 16 | |
| No ID Tag | Main | Roof | Split Condenser | York | AC024X1222A | 2 | 10.8 | Poor | Y | N | New Split Heat-Pump | Carrier: 27SCA03 | 2 | 16 | |
| CU-1 | Main | Roof | Split Condenser | Trane | 2TTB2024A1000 | 2 | 10.8 | Poor | Υ | N | New Split Heat-Pump | Carrier: 27SCA03 | 2 | 16 | |



| County | ounty of San Bernardino: Sheriff Training Center: Replace Select HVAC Equipment with New Equipment | | | | | | | | | | | | | | |
|-----------|--|---------------|----------------------|------|--------------|-----------------------|---------------|-------------------|---------------------------|---------------------------|--------------------------|----------------------|------------------------|----------------|--|
| G | General Information Existing Equipment Data | | | | | | | Proposed | Equipment Data | | | | | | |
| ID Tag | Building | Unit Location | System Type | Make | Model | Size Tons (pre) | SEER (pre) | Unit Condition | Replace Unit? (Y/N) | Add Controls? (Y/N) | Proposed System Type | Proposed Make: Model | Size Tons (post) | SEER (post) | |
| 105258 | Main | Wall Mount | Wall Mount Heat-Pump | Bard | W42H1-A05VP4 | 3.5 | 10.5 | Poor | Υ | Y | New Wall Mount Heat-Pump | Marvair: MAH042G***C | 3.5 | 13 | |
| 105257 | Main | Wall Mount | Wall Mount Heat-Pump | Bard | WH421-A05VP4 | 3.5 | 10.5 | Poor | Y | Y | New Wall Mount Heat-Pump | Marvair: MAH042G***C | 3.5 | 13 | |
| No ID Tag | Main | Wall Mount | Wall Mount Heat-Pump | Bard | W42H1-A05VP4 | 3.5 | 10.5 | Poor | Y | Y | New Wall Mount Heat-Pump | Marvair: MAH042G***C | 3.5 | 13 | |
| No ID Tag | Main | Wall Mount | Wall Mount Heat-Pump | Bard | W42H1-A05VP4 | 3.5 | 10.5 | Poor | Y | Υ | New Wall Mount Heat-Pump | Marvair: MAH042G***C | 3.5 | 13 | |
| 106277 | Main | Wall Mount | Wall Mount Heat-Pump | Bard | WH361-A05VP4 | 3 | 9.9 | Poor | Υ | Υ | New Wall Mount Heat-Pump | Marvair: MAH036G***C | 3 | 13 | |



SUBMITTAL

Project

San Bernardino Coroner

Date

Wednesday, January 22, 2025

Ryan Walsh

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| Unit Report | 12 |
| Certified Drawing | 13 |
| Performance Summary | |
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5T

Tag Cover Sheet
Unit Report
Certified Drawing
Performance Report

Unit Report For 5T

Project: San Bernardino Coroner Prepared By: Ryan Walsh 02/28/2025 12:21PM

Unit Parameters

| | 48GEGM06A2A5-3A0A0 06 (5 Tons) |
|------------------|-----------------------------------|
| Volts-Phase-Hert | , |
| Heating Type: | Gas |
| Refrigerant: | R-454B |
| Heat Control: | Ultra Low NOx, Low Gas Heat |
| Duct Cfg: | Vertical Supply / Vertical Return |
| DX Options: 1 | wo Stage Cooling, Single Circuit |

Dimensions (ft. in.) & Weight (lb.) ***

| Unit Length: | 6' 2.375" | |
|-------------------------|------------|----|
| Unit Width: | 3' 10.625" | |
| Unit Height: | 3' 5.375" | |
| Total Operating Weight: | 602 | lb |

^{***} Weights and Dimensions are approximate. Weight does not include unit packaging. Approximate dimensions are provided primarily for shipping purposes. For exact dimensions and weights, refer to appropriate product data catalog.

Lines and Filters

| Gas Line Size: | 1/2 |
|-----------------------------|-------------|
| Condensate Drain Line Size: | 3/4 |
| Return Air Filter Type: | Throwaway |
| Return Air Filter Quantity: | 4 |
| Return Air Filter Size: | 16 x 16 x 2 |

Selection includes construction throwaway filter into the base fan curve.

Unit Configuration

Ultra Low NOx, Low Gas Heat Standard/Medium Static - EcoBlue Vane Axial Fan Al/Cu - Al/Cu SystemVu Controller Standard Packaging

Warranty Information

1-Year parts(std.)

5-Year compressor parts(std.)

3-Year SystemVu

10-year heat exchanger - Ultra Low NOx modles

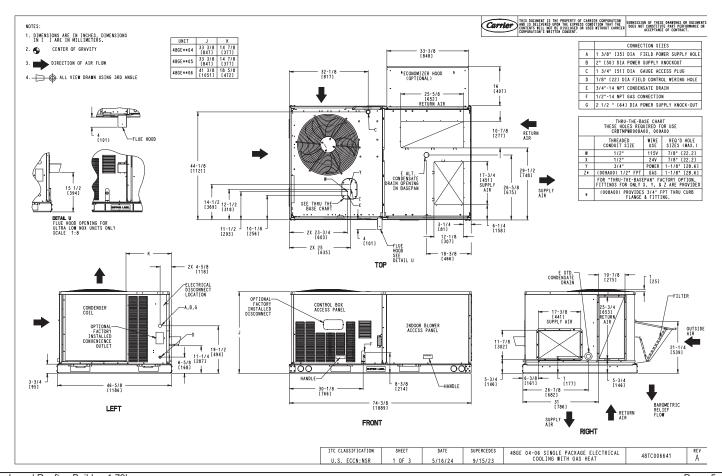
No optional warranties were selected.

Ordering Information

| Part Number | Description | Quantity |
|--------------------|--------------|----------|
| 48GEGM06A2A5-3A0A0 | Rooftop Unit | 4 |

Certified Drawing for 5T

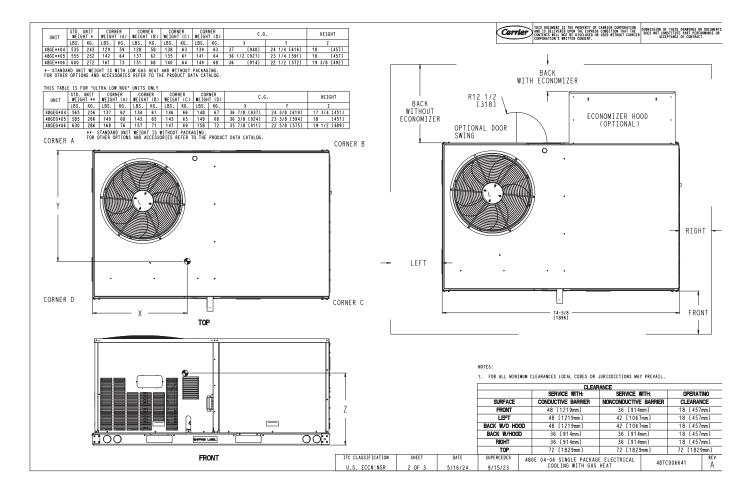
Project: San Bernardino Coroner Prepared By: Ryan Walsh 02/28/2025 12:21PM



Packaged Rooftop Builder 1.79h Page 5 of 25

Certified Drawing for 5T

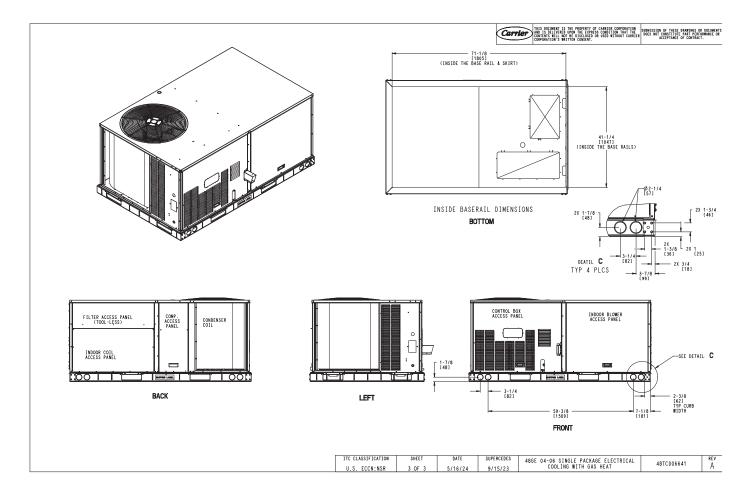
Project: San Bernardino Coroner Prepared By: Ryan Walsh 02/28/2025 12:21PM



Packaged Rooftop Builder 1.79h Page 6 of 25

Certified Drawing for 5T

Project: San Bernardino Coroner Prepared By: Ryan Walsh 02/28/2025 12:21PM



Packaged Rooftop Builder 1.79h Page 7 of 25

Part Number: 48GEGM06A2A5-3A0A0

| Refrigerant: R-4 | 54B | |
|---|------|----------|
| ARI SEER: | 7.20 | |
| ARI SEER2: | | |
| | | |
| Base Unit Dimensions | | |
| Unit Length: | 74.4 | in |
| Unit Width: | 46.6 | in |
| Unit Height: | 41.4 | in |
| Operating Weight | | |
| Base Unit Weight: | 600 | lb |
| SystemVu Controller: | 2 | lb |
| Total Operating Weight: | 602 | lb |
| | | |
| Unit | | |
| Unit Voltage-Phase-Hertz: 208-3 | | |
| Air Discharge: Vert | | |
| Fan Drive Type: Direct D | | |
| Actual Airflow:2 | | |
| Site Altitude: | 0 | ft |
| Cooling Performance | | |
| Condenser Entering Air DB: | 95 N | F |
| Evaporator Entering Air DB: | | |
| Evaporator Entering Air UB: | | |
| Evaporator Entering Air vvb. Entering Air Enthalpy: 3 | | |
| Evaporator Leaving Air DB: | 50 / | D I U/ID |
| Evaporator Leaving Air WB: | | |
| | | |
| Evaporator Leaving Air Enthalpy: 2 | | |
| Gross Cooling Capacity: 6 | | |
| Gross Sensible Capacity: 40 Compressor Power Input: | | kW |
| Conpressor Power input. Coil Bypass Factor: 0 | | KVV |
| Coll Dypass Factor | .033 | |
| Heating Performance | | |
| Heating Airflow:2 | 2000 | CFM |
| Entering Air Temp: | | |
| Leaving Air Temp: | | |
| Gas Heating Input Capacity: | | |
| Gas Heating Output Capacity: | | MBH |
| Temperature Rise: | | |
| | 81.0 | • |
| Thomas Emolesies (70) | | |
| Supply Fan | | |
| External Static Pressure: | | in wg |
| Fan RPM:1 | 813 | |
| Fan Power: | | BHP |
| NOTE: Selected IFM RPM Range: 1387 - 2 | 390 | |
| | | |
| Selection includes construction throwaway filter into the base fan curve. This filter is not MERV I | Rate | d. |
| Electrical Data | | |
| Voltage Range:187 - | 253 | |
| Compressor #1 RLA: | | |
| Compressor #1 LRA: | | |
| Indoor Fan Motor Type: | | |
| Indoor Fan Motor FLA (Total): | | |
| Combustion Fan Motor FLA (ea): | | |
| | | |

Performance Summary For 5T

Project: San Bernardino Coroner Prepared By: Ryan Walsh

02/28/2025 12:21PM

| Power Supply MCA: | 30 |
|-----------------------------------|---------|
| Power Supply MOCP (Fuse or HACR): | 40 |
| Disconnect Size FLA: | 30 |
| Disconnect Size LRA: | 167 |
| Electrical Convenience Outlet: | None |
| Outdoor Fan [Qty / FLA (ea)]: | 1 / 2.6 |

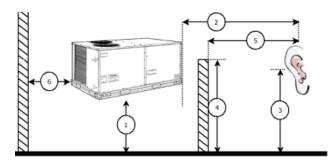
Control Panel SCCR: 5kA RMS at Rated Symmetrical Voltage

Acoustics

Sound Power Levels, db re 10E-12 Watts

| | Discharge | Inlet | Outdoor |
|-----------|-----------|-------|---------|
| 63 Hz | 90.0 | 90.3 | 85.6 |
| 125 Hz | 80.6 | 77.2 | 84.7 |
| 250 Hz | 74.7 | 71.5 | 80.5 |
| 500 Hz | 71.6 | 63.8 | 76.0 |
| 1000 Hz | 67.8 | 66.3 | 72.4 |
| 2000 Hz | 64.6 | 56.6 | 68.0 |
| 4000 Hz | 62.2 | 51.0 | 62.8 |
| 8000 Hz | 59.2 | 44.4 | 59.3 |
| | | | |
| -Weighted | 74.6 | 70.8 | 79.0 |

Advanced Acoustics



Advanced Accoustics Parameters

| 1. Unit height above ground: | 30.0 | ft |
|---|------|----|
| 2. Horizontal distance from unit to receiver: | 50.0 | ft |
| 3. Receiver height above ground: | 5.7 | ft |
| 4. Height of obstruction: | 0.0 | ft |
| 5. Horizontal distance from obstruction to receiver | 0.0 | ft |
| 6. Horizontal distance from unit to obstruction: | 0.0 | ft |

Detailed Acoustics Information

| Octave Band Center Freq. Hz | 63 | 125 | 250 | 500 | 1k | 2k | 4k | 8k | Overall |
|-----------------------------|------|------|------|------|------|------|------|------|----------|
| A | 85.6 | 84.7 | 80.5 | 76.0 | 72.4 | 68.0 | 62.8 | 59.3 | 89.2 Lw |
| В | 59.4 | 68.6 | 71.9 | 72.8 | 72.4 | 69.2 | 63.8 | 58.2 | 78.5 LwA |
| С | 53.2 | 52.3 | 48.1 | 43.6 | 40.0 | 35.6 | 30.4 | 26.9 | 56.8 Lp |
| D | 27.0 | 36.2 | 39.5 | 40.4 | 40.0 | 36.8 | 31.4 | 25.8 | 46.1 LpA |

Legend

A Sound Power Levels at Unit's Acoustic Center, Lw

Performance Summary For 5T

Project: San Bernardino Coroner Prepared By: Ryan Walsh

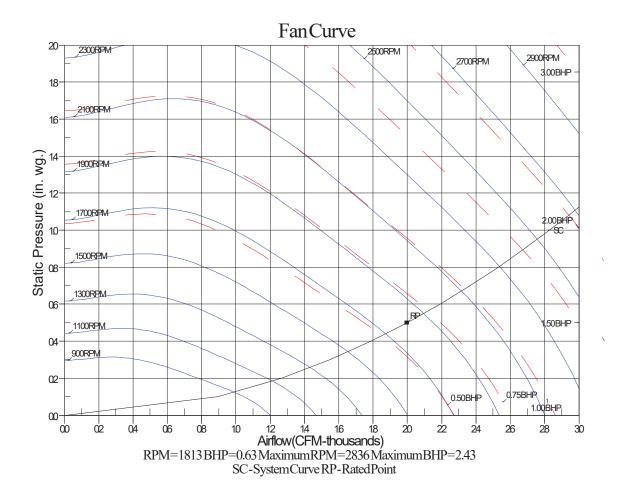
02/28/2025 12:21PM

B A-Weighted Sound Power Levels at Unit's Acoustic Center, LwA

C Sound Pressure Levels at Specific Distance from Unit, Lp

D A-Weighted Sound Pressure Levels at Specific Distance from Unit, LpA

Calculation methods used in this program are patterned after the ASHRAE Guide; other ASHRAE Publications and the AHRI Acoustical Standards. While a very significant effort has been made to insure the technical accuracy of this program, it is assumed that the user is knowledgeable in the art of system sound estimation and is aware of the tolerances involved in real world acoustical estimation. This program makes certain assumptions as to the dominant sound sources and sound paths which may not always be appropriate to the real system being estimated. Because of this, no assurances can be offered that this software will always generate an accurate sound prediction from user supplied input data. If in doubt about the estimation of expected sound levels in a space, an Acoustical Engineer or a person with sound prediction expertise should be consulted.



3T

Tag Cover Sheet
Unit Report
Certified Drawing
Performance Report

Unit Report For 3T

Project: San Bernardino Coroner Prepared By: Ryan Walsh

02/28/2025 12:21PM

Unit Parameters

| Unit Model: | 48GEGM04A2A5-3A0A0 |
|--------------------|------------------------------|
| Unit Size: | 04 (3 Tons) |
| Volts-Phase-Hertz: | 208-3-60 |
| Heating Type: | Gas |
| Refrigerant: | R-454B |
| Heat Control: UI | tra Low NOx, Low Gas Heat |
| Duct Cfg: Verti | cal Supply / Vertical Return |
| DX Options: Two S | tage Cooling, Single Circuit |

Dimensions (ft. in.) & Weight (lb.) ***

| Unit Length: | 6' 2.375" | |
|-------------------------|------------|----|
| Unit Width: | 3' 10.625" | |
| Unit Height: | 2' 9.375" | |
| Total Operating Weight: | 537 | lb |

^{***} Weights and Dimensions are approximate. Weight does not include unit packaging. Approximate dimensions are provided primarily for shipping purposes. For exact dimensions and weights, refer to appropriate product data catalog.

Lines and Filters

| Gas Line Size: | 1/2 |
|-----------------------------|-------------|
| Condensate Drain Line Size: | 3/4 |
| Return Air Filter Type: | Throwaway |
| Return Air Filter Quantity: | 2 |
| Return Air Filter Size: | 16 x 25 x 2 |

Selection includes construction throwaway filter into the base fan curve.

Unit Configuration

Ultra Low NOx, Low Gas Heat Standard/Medium Static - EcoBlue Vane Axial Fan Al/Cu - Al/Cu SystemVu Controller Standard Packaging

Warranty Information

1-Year parts(std.)

5-Year compressor parts(std.)

3-Year SystemVu

10-year heat exchanger - Ultra Low NOx modles

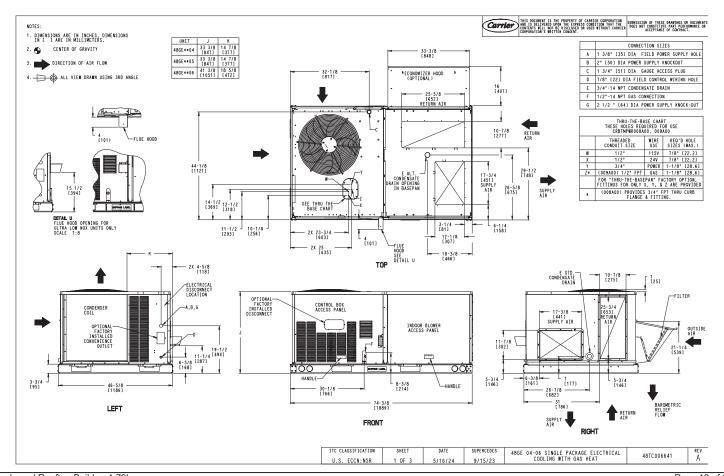
No optional warranties were selected.

Ordering Information

| Part Number | Description | Quantity |
|--------------------|--------------|----------|
| 48GEGM04A2A5-3A0A0 | Rooftop Unit | 1 |

Certified Drawing for 3T

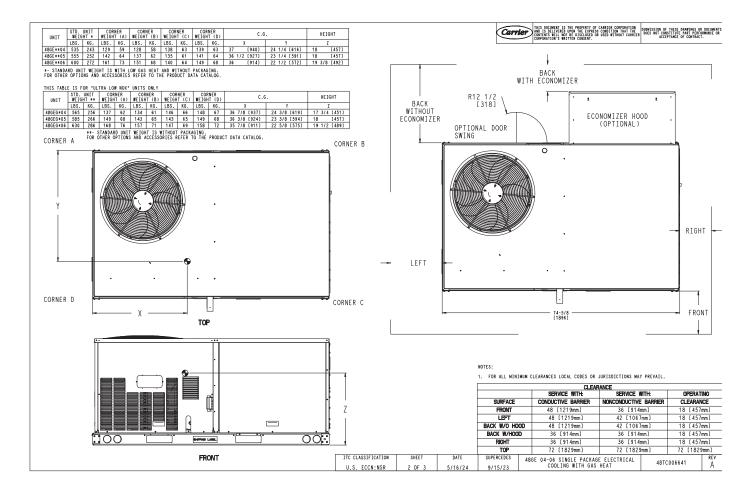
Project: San Bernardino Coroner Prepared By: Ryan Walsh 02/28/2025 12:21PM



Packaged Rooftop Builder 1.79h Page 13 of 25

Certified Drawing for 3T

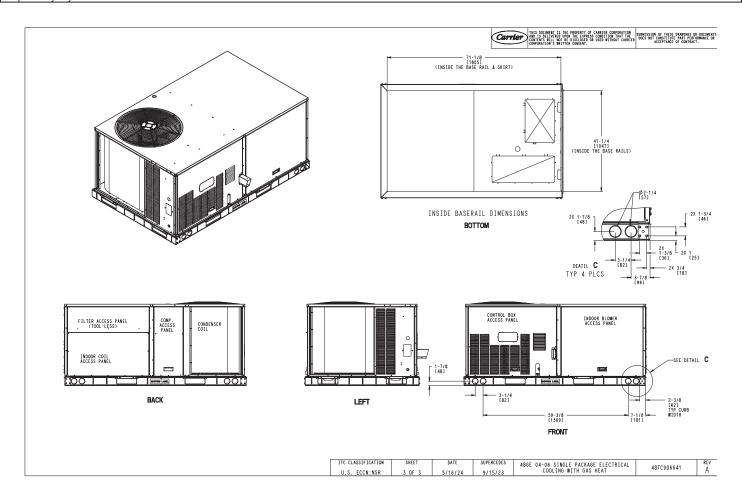
Project: San Bernardino Coroner Prepared By: Ryan Walsh 02/28/2025 12:21PM



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Certified Drawing for 3T

Project: San Bernardino Coroner Prepared By: Ryan Walsh 02/28/2025 12:21PM



Packaged Rooftop Builder 1.79h Page 15 of 25

Part Number: 48GEGM04A2A5-3A0A0

| Refrigerant: | R-454B | |
|--|-------------|--------|
| ARI SEER: | | |
| ARI SEER2: | | |
| 7111 0221 2 | | |
| Base Unit Dimensions | | |
| Unit Length: | 74.4 | in |
| Unit Width: | | |
| Unit Height: | | |
| Operating Weight | | |
| Base Unit Weight: | 535 | lh |
| SystemVu Controller: | | |
| Oystoniva Controllor | | ID |
| Total Operating Weight: | 537 | lb |
| Unit | | |
| Unit Voltage-Phase-Hertz: | 208-3-60 | |
| Air Discharge: | | |
| Fan Drive Type: | | |
| Actual Airflow: | | CEN4 |
| | | |
| Site Altitude: | 0 | ft |
| Cooling Performance | | |
| Condenser Entering Air DB: | | |
| Evaporator Entering Air DB: | 80.0 | F |
| Evaporator Entering Air WB: | | |
| Entering Air Enthalpy: | 31.44 | BTU/lb |
| Evaporator Leaving Air DB: | | F |
| Evaporator Leaving Air WB: | | - |
| Evaporator Leaving Air VVD. | | |
| | | |
| Gross Cooling Capacity: | | |
| Gross Sensible Capacity: | | |
| Compressor Power Input: | | kVV |
| Coil Bypass Factor: | 0.049 | |
| Heating Performance | | |
| Heating Airflow: | 1200 | CFM |
| Entering Air Temp: | | |
| Leaving Air Temp: | | |
| Gas Heating Input Capacity: | | |
| Gas Heating Output Capacity: | | |
| Temperature Rise: | | |
| | | Г |
| Thermal Efficiency (%): | | |
| Supply Fan | | |
| External Static Pressure: | 0.50 | in wa |
| Fan RPM: | | wg |
| Fan Power: | | BHP |
| NOTE: Selected IFM RPM Range: | 1129 - 2190 | וווט |
| NOTE. | 2.00 | |
| Selection includes construction throwaway filter into the base fan curve. This filter is not | MERV Rate | d. |
| Electrical Data | | |
| Voltage Range: | 187 - 253 | |
| Compressor #1 RLA: | 9.9 | |
| Compressor #1 LRA: | | |
| Indoor Fan Motor Type: | | |
| Indoor Fan Motor FLA (Total): | | |
| | | |
| Combustion Fan Motor FLA (ea): | U.48 | |

Performance Summary For 3T

Project: San Bernardino Coroner Prepared By: Ryan Walsh

02/28/2025 12:21PM

| Power Supply MCA: | 21 |
|-----------------------------------|-------|
| Power Supply MOCP (Fuse or HACR): | 25 |
| Disconnect Size FLA: | 20 |
| Disconnect Size LRA: | 93 |
| Electrical Convenience Outlet: | None |
| Outdoor Fan [Qty / FLA (ea)]: | / 2.6 |

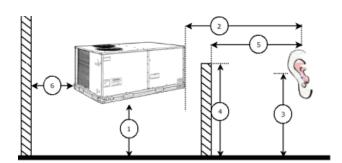
Control Panel SCCR: 5kA RMS at Rated Symmetrical Voltage

Acoustics

Sound Power Levels, db re 10E-12 Watts

| | Discharge | Inlet | Outdoor |
|------------|-----------|-------|---------|
| 63 Hz | 87.4 | 81.8 | 81.8 |
| 125 Hz | 79.8 | 73.7 | 81.8 |
| 250 Hz | 71.2 | 65.6 | 77.0 |
| 500 Hz | 63.9 | 57.4 | 72.6 |
| 1000 Hz | 60.9 | 58.5 | 69.9 |
| 2000 Hz | 57.4 | 50.0 | 64.6 |
| 4000 Hz | 54.4 | 44.2 | 59.3 |
| 8000 Hz | 55.3 | 40.1 | 55.6 |
| | | | |
| A-Weighted | 69.7 | 64.1 | 75.4 |

Advanced Acoustics



Advanced Accoustics Parameters

| 1. Unit height above ground: | 30.0 | ft |
|---|------|----|
| 2. Horizontal distance from unit to receiver: | 50.0 | ft |
| 3. Receiver height above ground: | 5.7 | ft |
| 4. Height of obstruction: | 0.0 | ft |
| 5. Horizontal distance from obstruction to receiver | 0.0 | ft |
| 6. Horizontal distance from unit to obstruction: | 0.0 | ft |

Detailed Acoustics Information

| Octave Band Center Freq. Hz | 63 | 125 | 250 | 500 | 1k | 2k | 4k | 8k | Overall |
|-----------------------------|------|------|------|------|------|------|------|------|----------|
| A | 81.8 | 81.8 | 77.0 | 72.6 | 69.9 | 64.6 | 59.3 | 55.6 | 85.9 Lw |
| В | 55.6 | 65.7 | 68.4 | 69.4 | 69.9 | 65.8 | 60.3 | 54.5 | 75.4 LwA |
| С | 49.4 | 49.4 | 44.6 | 40.2 | 37.5 | 32.2 | 26.9 | 23.2 | 53.5 Lp |
| D | 23.2 | 33.3 | 36.0 | 37.0 | 37.5 | 33.4 | 27.9 | 22.1 | 43.0 LpA |

Legend

A Sound Power Levels at Unit's Acoustic Center, Lw

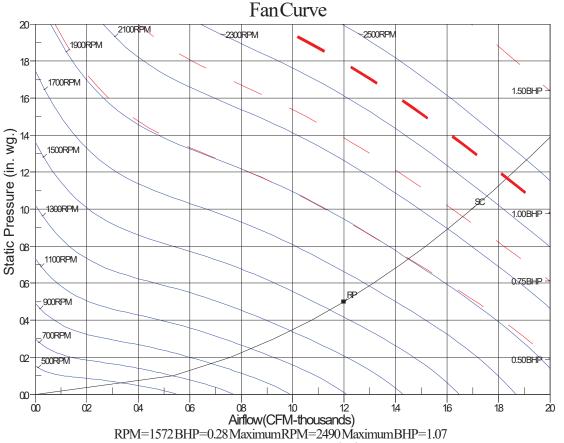
Project: San Bernardino Coroner Prepared By: Ryan Walsh

B A-Weighted Sound Power Levels at Unit's Acoustic Center, LwA

C Sound Pressure Levels at Specific Distance from Unit, Lp

D A-Weighted Sound Pressure Levels at Specific Distance from Unit, LpA

Calculation methods used in this program are patterned after the ASHRAE Guide; other ASHRAE Publications and the AHRI Acoustical Standards. While a very significant effort has been made to insure the technical accuracy of this program, it is assumed that the user is knowledgeable in the art of system sound estimation and is aware of the tolerances involved in real world acoustical estimation. This program makes certain assumptions as to the dominant sound sources and sound paths which may not always be appropriate to the real system being estimated. Because of this, no assurances can be offered that this software will always generate an accurate sound prediction from user supplied input data. If in doubt about the estimation of expected sound levels in a space, an Acoustical Engineer or a person with sound prediction expertise should be consulted.



SC-SystemCurve RP-RatedPoint

6T

Tag Cover Sheet
Unit Report
Certified Drawing
Performance Report

Unit Report For 6T

Project: San Bernardino Coroner Prepared By: Ryan Walsh 02/28/2025 12:21PM

Unit Parameters

| Unit Model: | 48GEDM07A2A5-3A0A0 |
|----------------|-----------------------------------|
| Unit Size: | 07 (6.0 Tons) |
| Volts-Phase-He | |
| Heating Type: | Gas |
| Refrigerant: | R-454B |
| Heat Control: | Low Gas Heat |
| Duct Cfg: | |
| DX Options: | Two Stage Cooling, Single Circuit |

Dimensions (ft. in.) & Weight (lb.) ***

| Unit Length: | 7' 4.125" | |
|-------------------------|-----------|----|
| Unit Width: | 4' 11.5" | |
| Unit Height: | 3' 5.25" | |
| Total Operating Weight: | 777 | lb |
| | | |

^{***} Weights and Dimensions are approximate. Weight does not include unit packaging. Approximate dimensions are provided primarily for shipping purposes. For exact dimensions and weights, refer to appropriate product data catalog.

Lines and Filters

| Gas Line Size: | 1/2 |
|-----------------------------|-------------|
| Condensate Drain Line Size: | 3/4 |
| Return Air Filter Type: | Throwaway |
| Return Air Filter Quantity: | 4 |
| Return Air Filter Size: | 16 x 20 x 2 |

Selection includes construction throwaway filter into the base fan curve.

Unit Configuration

Standard/Medium Static - EcoBlue Vane Axial Fan Al/Cu - Al/Cu SystemVu Controls Standard Packaging

Warranty Information

No standard warranties.

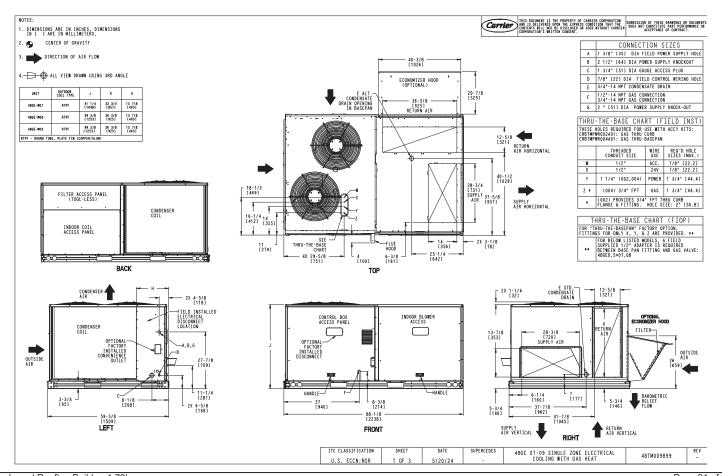
No optional warranties were selected.

Ordering Information

| Part Number | Description | Quantity |
|--------------------|--------------|----------|
| 48GEDM07A2A5-3A0A0 | Rooftop Unit | 1 |

Certified Drawing for 6T

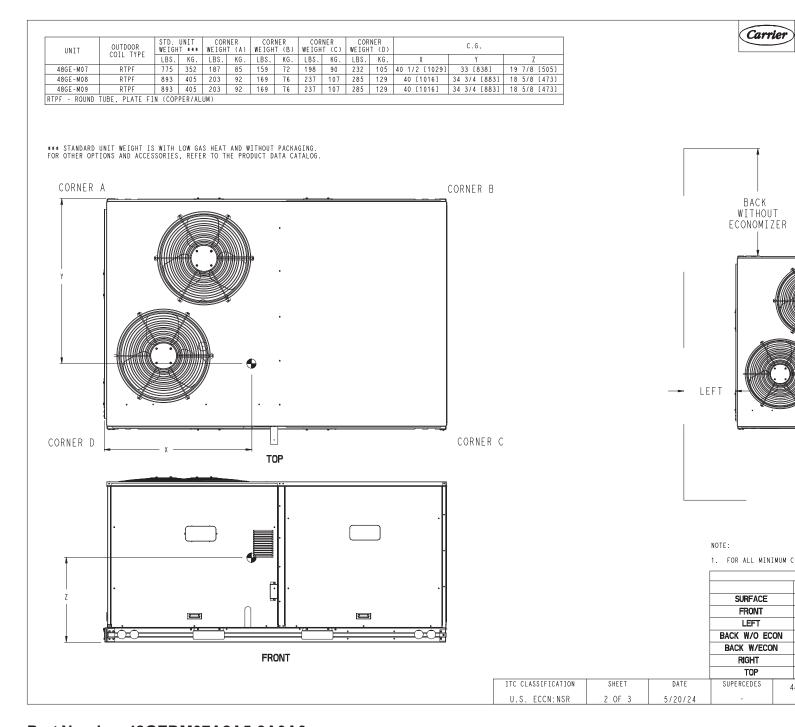
Project: San Bernardino Coroner Prepared By: Ryan Walsh 02/28/2025 12:21PM



Packaged Rooftop Builder 1.79h Page 21 of 25

Performance Summary For 6T

Project: San Bernardino Coroner Prepared By: Ryan Walsh 02/28/2025 12:21PM



Part Number: 48GEDM07A2A5-3A0A0

| Refrigerant: ARI EER: IEER: | 12.20 | |
|--|-------|----------------|
| Base Unit Dimensions Unit Length: Unit Width: Unit Height: | 59.5 | in in in |

| Performance | Summary | For 6T |
|--------------------|---------|--------|
|--------------------|---------|--------|

Project: San Bernardino Coroner Prepared By: Ryan Walsh 02/28/2025 12:21PM

| Operating Weight | | |
|---|--|-------|
| Base Unit Weight: | | |
| SystemVu Controls: | 2 lb |) |
| Total Operating Weight: | 777 lb |) |
| Unit | | |
| Unit Voltage-Phase-Hertz: | 208-3-60 | |
| Air Discharge: | | |
| Fan Drive Type: | | |
| Actual Airflow: | | ΕM |
| Site Altitude: | | |
| | | |
| Cooling Performance | | |
| Condenser Entering Air DB: | 95.0 F | |
| Evaporator Entering Air DB: | 80.0 F | |
| Evaporator Entering Air WB: | 67.0 F | |
| Entering Air Enthalpy: | | TU/lb |
| Evaporator Leaving Air DB: | | |
| Evaporator Leaving Air WB: | | |
| Evaporator Leaving Air Enthalpy: | | TU/lb |
| Gross Cooling Capacity: | | IBH |
| Gross Sensible Capacity: | | IBH |
| Compressor Power Input: | | |
| Coil Bypass Factor: | | |
| | | |
| Heating Performance | | |
| Heating Airflow: | | FM |
| Entering Air Temp: | 70.0 F | |
| Leaving Air Temp: | | |
| Gas Heating Input Capacity: | | IBH |
| Gas Heating Output Capacity: | | IBH |
| Temperature Rise: | 22.8 F | |
| Thermal Efficiency (%): | 82.0 | |
| Supply Fan | | |
| External Static Pressure: | 0.50 in | wa |
| Fan RPM: | | wg |
| Fan Power: | | HP |
| NOTE: | Selected IFM RPM Range: 849 - 2000 | |
| 11012 | | |
| Selection includes construction throwaway filter into the base fa | an curve. This filter is not MERV Rated. | |
| Electrical Data | | |
| Voltage Range: | 187 - 253 | |
| Compressor #1 RLA: | 12.8 | |
| Compressor #1 LRA: | | |
| Compressor #2 RLA: | | |
| Compressor #2 IRA: | | |
| Indoor Fan Motor Type: | | |
| Indoor Fan Motor FLA (Total): | | |
| Combustion Fan Motor FLA (ea): | | |
| Power Supply MCA: | 0.40 | |
| | | |
| Power Supply MOCP (Fuse or HACR): | | |
| Disconnect Size FLA: | | |
| Disconnect Size LRA: | 188 | |

Control Panel SCCR: 5kA RMS at Rated Symmetrical Voltage

Acoustics

Outdoor Fan [Qty / FLA (ea)]:....

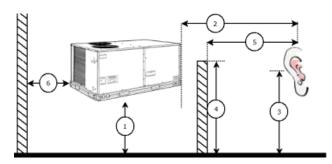
Disconnect Size LRA: Electrical Convenience Outlet:

None 2 / 1.5 Project: San Bernardino Coroner Prepared By: Ryan Walsh

Sound Power Levels, db re 10E-12 Watts

| | Discharge | Inlet | Outdoor |
|------------|-----------|-------|---------|
| 63 Hz | 84.1 | 81.1 | 90.1 |
| 125 Hz | 79.4 | 74.6 | 82.6 |
| 250 Hz | 70.4 | 66.9 | 81.0 |
| 500 Hz | 67.9 | 60.6 | 79.4 |
| 1000 Hz | 68.7 | 60.2 | 77.0 |
| 2000 Hz | 63.6 | 53.6 | 73.0 |
| 4000 Hz | 58.3 | 47.3 | 70.4 |
| 8000 Hz | 49.5 | 44.2 | 66.7 |
| | | | |
| A-Weighted | 72.7 | 65.7 | 82.0 |

Advanced Acoustics



Advanced Accoustics Parameters

| 1. Unit height above ground: | 30.0 | f |
|--|------|----|
| 2. Horizontal distance from unit to receiver: | 50.0 | ft |
| 3. Receiver height above ground: | 5.7 | ft |
| 4. Height of obstruction: | 0.0 | ft |
| 5. Horizontal distance from obstruction to receiver: | 0.0 | ft |
| 6. Horizontal distance from unit to obstruction: | 0.0 | f |

Detailed Acoustics Information

| Octave Band Center Freq. Hz | | | | | | | | | Overall |
|-----------------------------|------|------|------|------|------|------|------|------|----------|
| A | 90.1 | 82.6 | 81.0 | 79.4 | 77.0 | 73.0 | 70.4 | 66.7 | 91.8 Lw |
| В | 63.9 | 66.5 | 72.4 | 76.2 | 77.0 | 74.2 | 71.4 | 65.6 | 82.0 LwA |
| С | 57.7 | 50.2 | 48.6 | 47.0 | 44.6 | 40.6 | 38.0 | 34.3 | 59.4 Lp |
| D | 31.5 | 34.1 | 40.0 | 43.8 | 44.6 | 41.8 | 39.0 | 33.2 | 49.6 LpA |

Legend

A Sound Power Levels at Unit's Acoustic Center, Lw

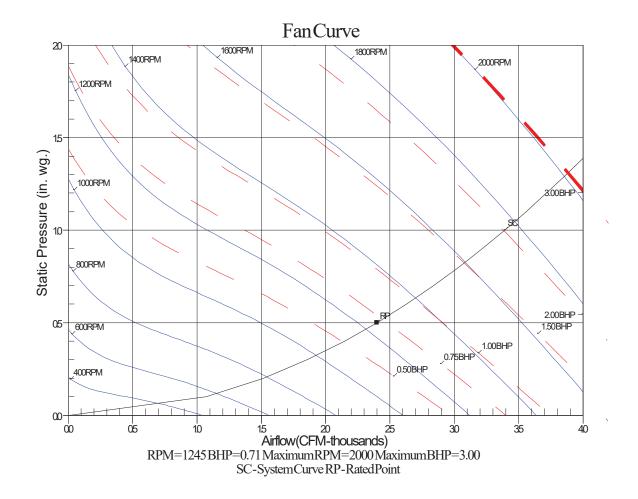
B A-Weighted Sound Power Levels at Unit's Acoustic Center, LwA

C Sound Pressure Levels at Specific Distance from Unit, Lp

D A-Weighted Sound Pressure Levels at Specific Distance from Unit, LpA

Calculation methods used in this program are patterned after the ASHRAE Guide; other ASHRAE Publications and the AHRI Acoustical Standards. While a very significant effort has been made to insure the technical accuracy of this program, it is assumed that the user is knowledgeable in the art of system sound estimation and is aware of the tolerances involved in real world acoustical estimation. This program makes certain assumptions as to the dominant sound sources and sound paths which may not always be appropriate to the real system being estimated. Because of this, no assurances can be offered that this software will always generate an accurate sound prediction from user supplied input data. If in doubt about the estimation of expected sound levels in a space, an

Acoustical Engineer or a person with sound prediction expertise should be consulted.





SUBMITTAL

Project

San Bernardino County Building

Date

Tuesday, January 21, 2025

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4T qty 5

Tag Cover Sheet
Unit Report
Certified Drawing
Performance Report

Unit Report For 4T qty 5

Project: San Bernardino County Building

Prepared By: Ryan Walsh

02/28/2025 12:25PM

Unit Parameters

| Unit Model: | 50GCQJ05A2A5-0A0A0 |
|-------------------|-----------------------------------|
| Unit Size: | 05 (4 Tons) |
| Volts-Phase-Hertz | 230-3-60 |
| Heating Type: | Heat Pump |
| Refrigerant: | R-410A |
| Heat Control: | Two Stage Cooling Models |
| Duct Cfg: | Vertical Supply / Vertical Return |

Dimensions (ft. in.) & Weight (lb.) ***

| Unit Length: 6' 2.375 | ;" |
|----------------------------|-------------|
| Unit Width: 3' 10.625 | ;'' |
| Unit Height: 3' 5.375 | ;'' |
| Total Operating Weight: 59 | 0 lb |
| · otal opolating rolgitu | • 15 |

^{***} Weights and Dimensions are approximate. Weight does not include unit packaging. Approximate dimensions are provided primarily for shipping purposes. For exact dimensions and weights, refer to appropriate product data catalog.

Lines and Filters

| Return Air Filter Type: | Throwaway |
|-----------------------------|-------------|
| Return Air Filter Quantity: | 4 |
| Return Air Filter Size: | 16 x 16 x 2 |

Selection includes construction throwaway filter into the base fan curve.

Unit Configuration

Direct Drive - EcoBlue - Medium Static Al/Cu - Al/Cu Base controls set up for field installed air management device Standard Packaging

Warranty Information

5-Year compressor parts (STD.)

1-Year parts (STD.)

3-Year SystemVu controller

No optional warranties were selected.

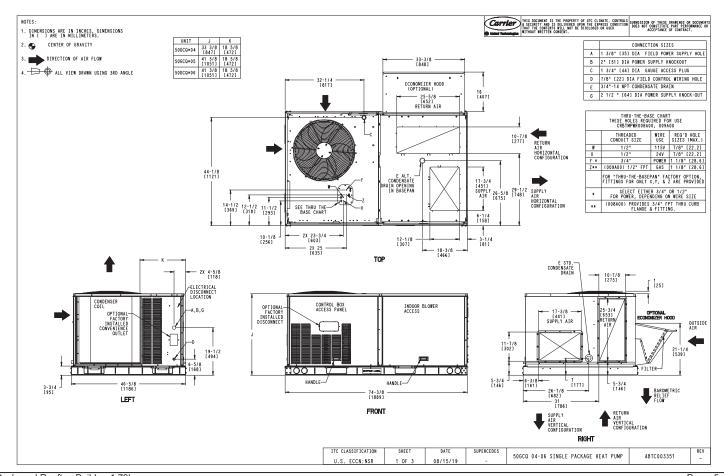
Ordering Information

| Part Number | Description | Quantity |
|--------------------|--------------|----------|
| 50GCQJ05A2A5-0A0A0 | Rooftop Unit | 5 |

Certified Drawing for 4T qty 5

Project: San Bernardino County Building Prepared By: Ryan Walsh

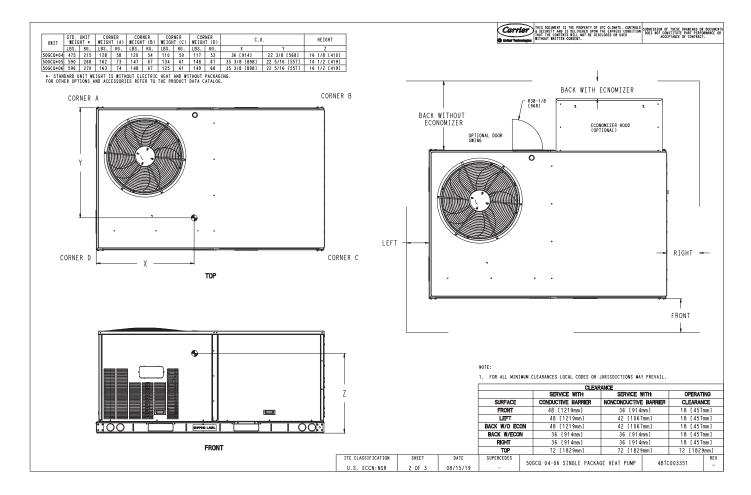
02/28/2025 12:25PM



Packaged Rooftop Builder 1.79h Page 5 of 39

Certified Drawing for 4T qty 5

Project: San Bernardino County Building Prepared By: Ryan Walsh 02/28/2025 12:25PM

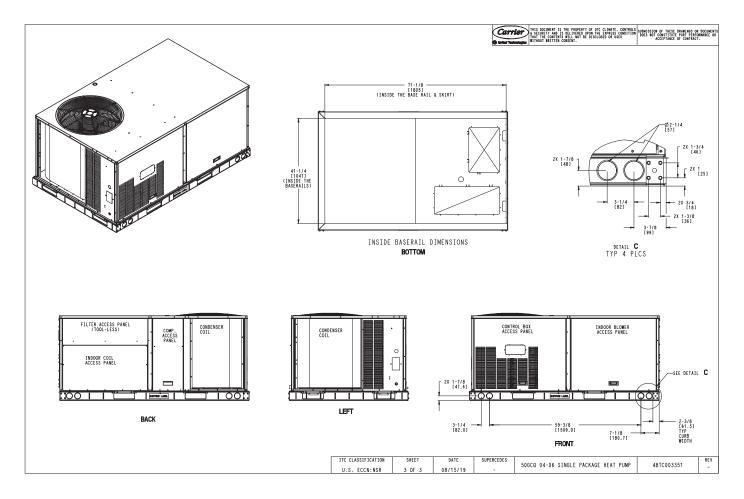


Packaged Rooftop Builder 1.79h Page 6 of 39

Certified Drawing for 4T qty 5

Project: San Bernardino County Building Prepared By: Ryan Walsh

02/28/2025 12:25PM



Packaged Rooftop Builder 1.79h Page 7 of 39

Part Number: 50GCQJ05A2A5-0A0A0

| Refrigerant: | R-410A | |
|--|---|--------|
| ARI ŠEER: | | |
| ARI SEER2: | 16.00 | |
| Base Unit Dimensions | | |
| Unit Length: | 74.4 i | in |
| Unit Width: | | |
| Unit Height: | | |
| Operating Weight | | 111 |
| | 500 | lh |
| Base Unit Weight: | 590 | ID |
| Total Operating Weight: | 590 | lb |
| Unit | | |
| Unit Voltage-Phase-Hertz: | 230-3-60 | |
| Air Discharge: | | |
| Fan Drive Type: | | |
| Actual Airflow: | | CEM |
| Site Altitude: | | |
| Site Altitude: | | IL |
| Cooling Performance | | |
| Condenser Entering Air DB: | | |
| Evaporator Entering Air DB: | 80.0 | F |
| Evaporator Entering Air WB: | 67.0 | F |
| Entering Air Enthalpy: | | |
| Evaporator Leaving Air DB: | | |
| Evaporator Leaving Air WB: | | |
| Evaporator Leaving Air Enthalpy: | 24.58 | BTU/lb |
| Gross Cooling Capacity: | | |
| Gross Sensible Capacity: | | |
| Compressor Power Input: | | |
| Coil Bypass Factor: | | IX V V |
| • | | |
| Heating Performance | 47.0 | _ |
| Outdoor Ambient Temperature: | | |
| Entering Air Indoor Coil DB: | | |
| Leaving Air Indoor Coil DB: | | |
| Total Heating Capacity: | 45.60 | MBH |
| Integrated Heating Capacity: | | |
| Heating Power Input: | | kW |
| High Temperature COP: | 3.70 | |
| Low Temperature COP: | | |
| HSPF: | | |
| High Temperature COP2: | | |
| Low Temperature COP2: | | |
| HSPF2: | | |
| Supply Fan | | |
| External Static Pressure: | n sn : | in wa |
| | | iii wg |
| Fan RPM: | | DLID |
| Fan Power: NOTE: | | סחר |
| NOTE. | Selected Irivi Krivi Kalige. 1047 - 2170 | |
| Selection includes construction throwaway filter into the ba | ase fan curve. This filter is not MERV Rated. | |
| Electrical Data | | |
| Voltage Range: | 187 - 253 | |
| Compressor #1 RLA: | 14.6 | |
| Designed Deafter Duilder 4 70h | | |

Performance Summary For 4T qty 5

Project: San Bernardino County Building

02/28/2025 Prepared By: Ryan Walsh 12:25PM

| Compressor #1 LRA: | 105 |
|-----------------------------------|------|
| Indoor Fan Motor Type: | MED |
| Indoor Fan Motor FLA (Total): | 7.1 |
| Power Supply MCA: | 27 |
| Power Supply MOCP (Fuse or HACR): | 40 |
| Disconnect Size FLA: | 26 |
| Disconnect Size LRA: | 118 |
| Electrical Convenience Outlet: | None |
| Outdoor Fan [Qty / FLA (ea)]: | 4/40 |

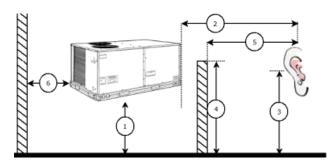
Control Panel SCCR: 5kA RMS at Rated Symmetrical Voltage

Acoustics

Sound Power Levels, db re 10E-12 Watts

| | Discharge | Inlet | Outdoor |
|-----------|-----------|-------|---------|
| 63 Hz | 87.3 | 87.4 | 85.6 |
| 125 Hz | 77.1 | 72.8 | 84.7 |
| 250 Hz | 70.9 | 69.0 | 80.5 |
| 500 Hz | 67.3 | 58.4 | 76.0 |
| 1000 Hz | 62.7 | 61.9 | 72.4 |
| 2000 Hz | 59.2 | 52.0 | 68.0 |
| 4000 Hz | 58.1 | 46.7 | 62.8 |
| 8000 Hz | 56.5 | 40.5 | 59.3 |
| | | | |
| -Weighted | 70.4 | 67.0 | 79.0 |

Advanced Acoustics



Advanced Accoustics Parameters

| 1. Unit height above ground: | 30.0 | ft |
|---|----------------|----|
| 2. Horizontal distance from unit to receiver: | 50.0 | ft |
| Receiver height above ground: | 5.7 | ft |
| 4. Height of obstruction: | 0.0 | ft |
| Horizontal distance from obstruction to receive | er: 0.0 | ft |
| Horizontal distance from unit to obstruction: | 0.0 | ft |

Detailed Acoustics Information

| Octave Band Center Freq. Hz | | | | | | | | | Overall |
|-----------------------------|------|------|------|------|------|------|------|------|----------|
| A | 85.6 | 84.7 | 80.5 | 76.0 | 72.4 | 68.0 | 62.8 | 59.3 | 89.2 Lw |
| В | 59.4 | 68.6 | 71.9 | 72.8 | 72.4 | 69.2 | 63.8 | 58.2 | 78.5 LwA |
| C | 53.2 | 52.3 | 48.1 | 43.6 | 40.0 | 35.6 | 30.4 | 26.9 | 56.8 Lp |
| D | 27.0 | 36.2 | 39.5 | 40.4 | 40.0 | 36.8 | 31.4 | 25.8 | 46.1 LpA |

Performance Summary For 4T qty 5

Project: San Bernardino County Building

02/28/2025 Prepared By: Ryan Walsh 12:25PM

Legend

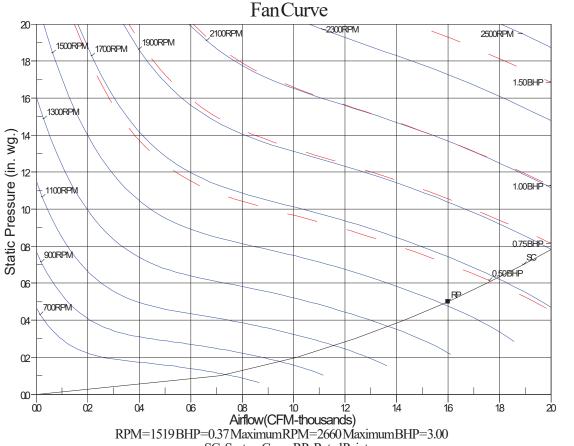
A Sound Power Levels at Unit's Acoustic Center, Lw

B A-Weighted Sound Power Levels at Unit's Acoustic Center, LwA

C Sound Pressure Levels at Specific Distance from Unit, Lp

D A-Weighted Sound Pressure Levels at Specific Distance from Unit, LpA

Calculation methods used in this program are patterned after the ASHRAE Guide; other ASHRAE Publications and the AHRI Acoustical Standards. While a very significant effort has been made to insure the technical accuracy of this program, it is assumed that the user is knowledgeable in the art of system sound estimation and is aware of the tolerances involved in real world acoustical estimation. This program makes certain assumptions as to the dominant sound sources and sound paths which may not always be appropriate to the real system being estimated. Because of this, no assurances can be offered that this software will always generate an accurate sound prediction from user supplied input data. If in doubt about the estimation of expected sound levels in a space, an Acoustical Engineer or a person with sound prediction expertise should be consulted.



SC-SystemCurve RP-RatedPoint

6T

Tag Cover Sheet
Unit Report
Certified Drawing
Performance Report

Unit Report For 6T

Project: San Bernardino County Building

Prepared By: Ryan Walsh

02/28/2025

| U | nit | Parameters | |
|---|-----|------------|--|
|---|-----|------------|--|

| Unit Model: | 50GCQM07A2A5-0A0A0 |
|----------------------|---------------------------------|
| Unit Size: | 07 (6.0 Tons) |
| Volts-Phase-Hertz: | 230-3-60 |
| Heating Type: | Heat Pump |
| Refrigerant: | R-410A |
| Heat Control: Single | le Circuit, Two Stage Cooling |
| Duct Cfa: Ver | rtical Supply / Vertical Return |

Dimensions (ft. in.) & Weight (lb.) ***

| Unit Length: | 7' 4.125" |
|---|-------------------------|
| Unit Width: | 4' 11.5" |
| Unit Height: | 4' 1.375" |
| *** Weights and Dimensions are approximate. W | Veight does not include |

roof curbs, unit packaging, field installed accessories or factory installed options. Approximate dimensions are provided primarily for shipping purposes. For exact dimensions and weights, refer to appropriate product data catalog.

Base Unit Weight (Does not include any accessories):

Lines and Filters

| Return Air Filter Type: | Throwaway |
|-----------------------------|-------------|
| Return Air Filter Quantity: | 4 |
| Return Air Filter Size: | 16 x 20 x 2 |

Selection includes construction throwaway filter into the base fan curve.

Unit Configuration

Standard/Medium Static - EcoBlue Vane Axial Fan

Al/Cu - Al/Cu

Electromechanical controls (can be used with field installed economizers and dampers)

Standard Packaging

Warranty Information

No standard warranties.

No optional warranties were selected.

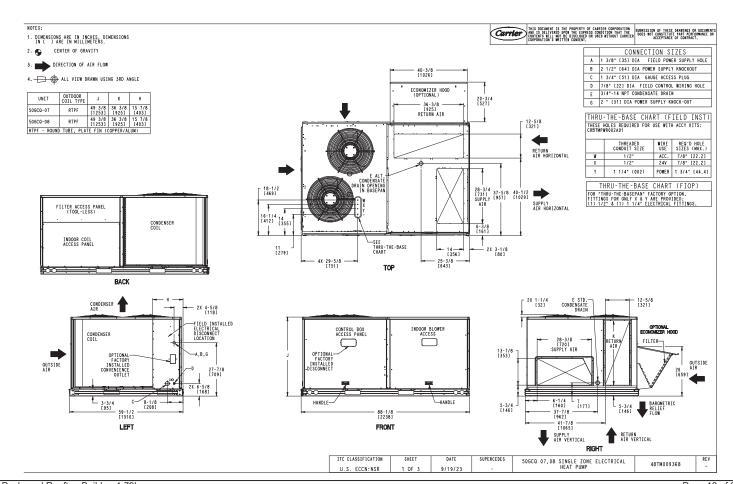
Ordering Information

| Part Number | Description | Quantity |
|--------------------|--------------|----------|
| 50GCQM07A2A5-0A0A0 | Rooftop Unit | 9 |

Certified Drawing for 6T

Project: San Bernardino County Building Prepared By: Ryan Walsh

02/28/2025 12:25PM

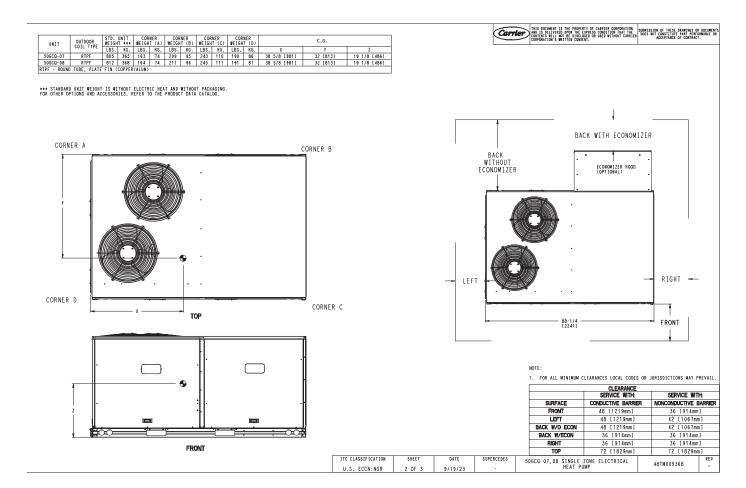


Packaged Rooftop Builder 1.79h Page 13 of 39

Certified Drawing for 6T

Project: San Bernardino County Building Prepared By: Ryan Walsh

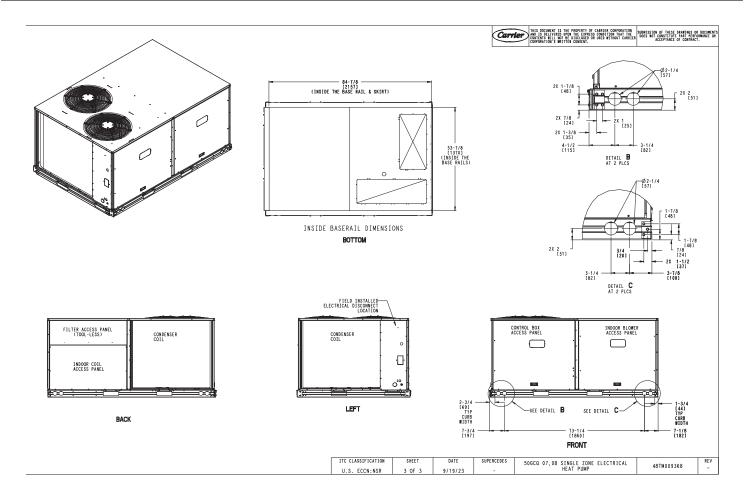
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Packaged Rooftop Builder 1.79h Page 14 of 39

Certified Drawing for 6T

Project: San Bernardino County Building Prepared By: Ryan Walsh 02/28/2025 12:25PM



Packaged Rooftop Builder 1.79h Page 15 of 39

Part Number:50GCQM07A2A5-0A0A0

| Refrigerant: | R-410A | |
|--|-------------------------------------|--------|
| ARI EER: | | |
| IEER: | | |
| | | |
| Base Unit Dimensions | | |
| Unit Length: | | |
| Unit Width: | 59.5 | in |
| Unit Height: | | in |
| Base Unit Weight (Does not include any accessories): | 805 | lb |
| Unit | | |
| Unit Voltage-Phase-Hertz: | 230-3-60 | |
| Air Discharge: | | |
| Fan Drive Type: | | |
| Actual Airflow: | | CEM |
| Site Altitude: | | |
| Site Allitude. | v | IL |
| Cooling Performance | | |
| Condenser Entering Air DB: | 95.0 | F |
| Evaporator Entering Air DB: | | |
| Evaporator Entering Air WB: | | |
| Entering Air Enthalpy: | 31.44 | BTU/lb |
| Evaporator Leaving Air DB: | 58.4 | F |
| Evaporator Leaving Air WB: | | |
| Evaporator Leaving Air Enthalpy: | | |
| Gross Cooling Capacity: | | |
| Gross Sensible Capacity: | | |
| Compressor Power Input: | | |
| Coil Bypass Factor: | | |
| Heating Performance | | |
| Outdoor Ambient Temperature: | 47.0 | F |
| Entering Air Indoor Coil DB: | | |
| Leaving Air Indoor Coil DB: | | |
| Total Heating Capacity: | | |
| Integrated Heating Capacity: | | |
| Heating Power Input: | | |
| High Temperature COP: | | 1 |
| Low Temperature COP: | | |
| Low Temperature COT | 2.70 | |
| Supply Fan | | |
| External Static Pressure: | 0.50 | in wg |
| Fan RPM: | 1149 | |
| Fan Power: | 0.54 | BHP |
| NOTE: Sele | ected IFM RPM Range: 920 - 2000 | |
| Selection includes construction throwaway filter into the base fan c | urve This filter is not MERV Rate | d |
| ociocion molados construction tinowaway inter into the base fair o | arve. This inter is not mercy react | u. |
| Electrical Data | | |
| Voltage Range: | | |
| Compressor #1 RLA: | | |
| Compressor #1 LRA: | | |
| Compressor #2 RLA: | 8.9 | |
| Compressor #2 LRA: | 58 | |
| Indoor Fan Motor Type: | MED | |
| Indoor Fan Motor FLA (Total): | | |
| Power Supply MCA: | | |
| Power Supply MOCP (Fuse or HACR): | 45 | |
| | | |

Performance Summary For 6T

Project: San Bernardino County Building

Prepared By: Ryan Walsh

02/28/2025 12:25PM

| Disconnect Size FLA: | 37 |
|--------------------------------|---------|
| Disconnect Size LRA: | 163 |
| Electrical Convenience Outlet: | None |
| Outdoor Fan [Qty / FLA (ea)]: | 2 / 1.5 |

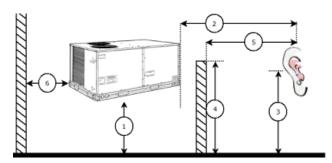
Control Panel SCCR: 5kA RMS at Rated Symmetrical Voltage

Acoustics

Sound Power Levels, db re 10E-12 Watts

| | Discharge | Inlet | Outdoor |
|------------|-----------|-------|---------|
| 63 Hz | 83.0 | 80.4 | 86.7 |
| 125 Hz | 77.7 | 73.1 | 82.7 |
| 250 Hz | 67.8 | 65.0 | 79.1 |
| 500 Hz | 65.5 | 58.1 | 78.4 |
| 1000 Hz | 66.3 | 57.7 | 75.4 |
| 2000 Hz | 60.5 | 50.9 | 71.2 |
| 4000 Hz | 55.0 | 45.1 | 67.8 |
| 8000 Hz | 46.3 | 43.0 | 62.9 |
| A-Weighted | 70.3 | 63.7 | 81.0 |

Advanced Acoustics



Advanced Accoustics Parameters

| 1. Unit height above ground: | 30.0 | ft |
|---|------|----|
| 2. Horizontal distance from unit to receiver: | 50.0 | ft |
| 3. Receiver height above ground: | 5.7 | ft |
| 4. Height of obstruction: | 0.0 | ft |
| 5. Horizontal distance from obstruction to receiver | 0.0 | ft |
| 6. Horizontal distance from unit to obstruction: | 0.0 | ft |

Detailed Acoustics Information

| Octave Band Center Freq. Hz | 63 | 125 | 250 | 500 | 1k | 2k | 4k | 8k | Overall |
|-----------------------------|------|------|------|------|------|------|------|------|----------|
| A | 86.7 | 82.7 | 79.1 | 78.4 | 75.4 | 71.2 | 67.8 | 62.9 | 89.3 Lw |
| В | 60.5 | 66.6 | 70.5 | 75.2 | 75.4 | 72.4 | 68.8 | 61.8 | 80.5 LwA |
| С | 54.3 | 50.3 | 46.7 | 46.0 | 43.0 | 38.8 | 35.4 | 30.5 | 56.9 Lp |
| D | 28.1 | 34.2 | 38.1 | 42.8 | 43.0 | 40.0 | 36.4 | 29.4 | 48.1 LpA |

Legend

- A Sound Power Levels at Unit's Acoustic Center, Lw
- B A-Weighted Sound Power Levels at Unit's Acoustic Center, LwA
- C Sound Pressure Levels at Specific Distance from Unit, Lp

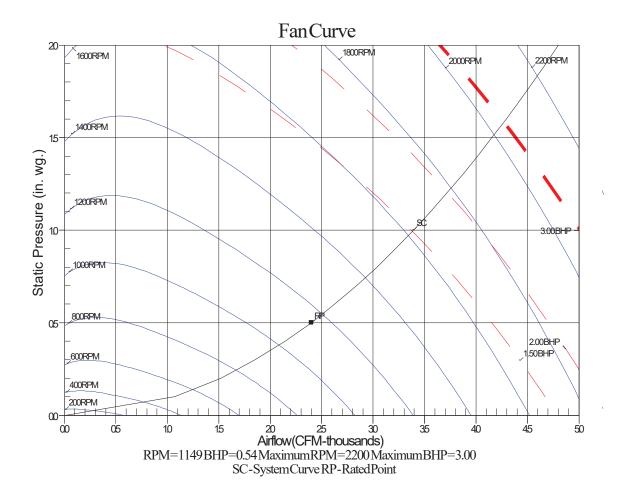
Performance Summary For 6T

Project: San Bernardino County Building Prepared By: Ryan Walsh

02/28/2025 12:25PM

D A-Weighted Sound Pressure Levels at Specific Distance from Unit, LpA

Calculation methods used in this program are patterned after the ASHRAE Guide; other ASHRAE Publications and the AHRI Acoustical Standards. While a very significant effort has been made to insure the technical accuracy of this program, it is assumed that the user is knowledgeable in the art of system sound estimation and is aware of the tolerances involved in real world acoustical estimation. This program makes certain assumptions as to the dominant sound sources and sound paths which may not always be appropriate to the real system being estimated. Because of this, no assurances can be offered that this software will always generate an accurate sound prediction from user supplied input data. If in doubt about the estimation of expected sound levels in a space, an Acoustical Engineer or a person with sound prediction expertise should be consulted.



3T qty 5

Tag Cover Sheet
Unit Report
Certified Drawing
Performance Report

Unit Report For 3T qty 5

Project: San Bernardino County Building

Prepared By: Ryan Walsh

02/28/2025 12:25PM

Unit Parameters

| Unit Model: | 50GCQJ04A2A5-0A0A0 |
|-------------------|-----------------------------------|
| Unit Size: | 04 (3 Tons) |
| Volts-Phase-Hertz | <u>230-3-60</u> |
| Heating Type: | Heat Pump |
| Refrigerant: | R-410A |
| Heat Control: | Two Stage Cooling Models |
| Duct Cfg: | Vertical Supply / Vertical Return |

Dimensions (ft. in.) & Weight (lb.) ***

| Unit Length: | 6' 2.375" | |
|-------------------------|------------|----|
| Unit Width: | 3' 10.625" | |
| Unit Height: | 2' 9.375" | |
| Total Operating Weight: | 475 | lb |

^{***} Weights and Dimensions are approximate. Weight does not include unit packaging. Approximate dimensions are provided primarily for shipping purposes. For exact dimensions and weights, refer to appropriate product data catalog.

Lines and Filters

| Return Air Filter Type: | Throwaway |
|-----------------------------|-------------|
| Return Air Filter Quantity: | 2 |
| Return Air Filter Size: | 16 x 25 x 2 |

Selection includes construction throwaway filter into the base fan curve.

Unit Configuration

Direct Drive - EcoBlue - Medium Static Al/Cu - Al/Cu Base controls set up for field installed air management device Standard Packaging

Warranty Information

5-Year compressor parts (STD.)

1-Year parts (STD.)

3-Year SystemVu controller

No optional warranties were selected.

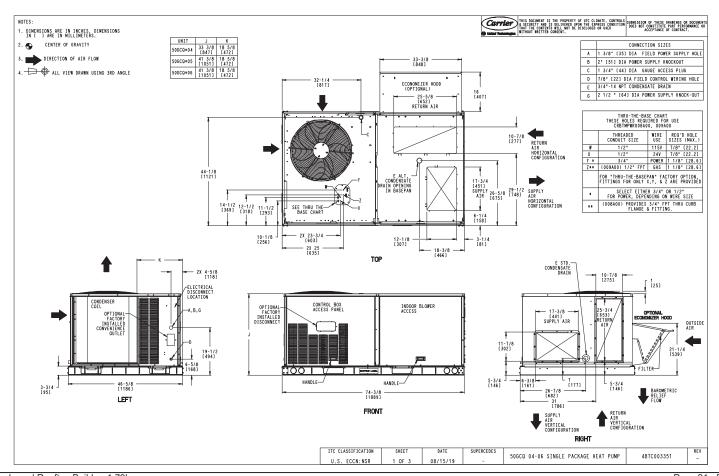
Ordering Information

| Part Number | Description | Quantity |
|--------------------|--------------|----------|
| 50GCQJ04A2A5-0A0A0 | Rooftop Unit | 5 |

Certified Drawing for 3T qty 5

Project: San Bernardino County Building Prepared By: Ryan Walsh

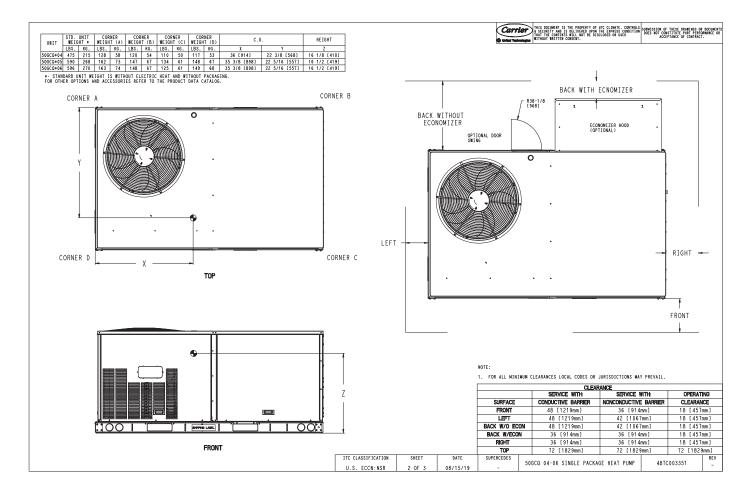
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Packaged Rooftop Builder 1.79h Page 21 of 39

Certified Drawing for 3T qty 5

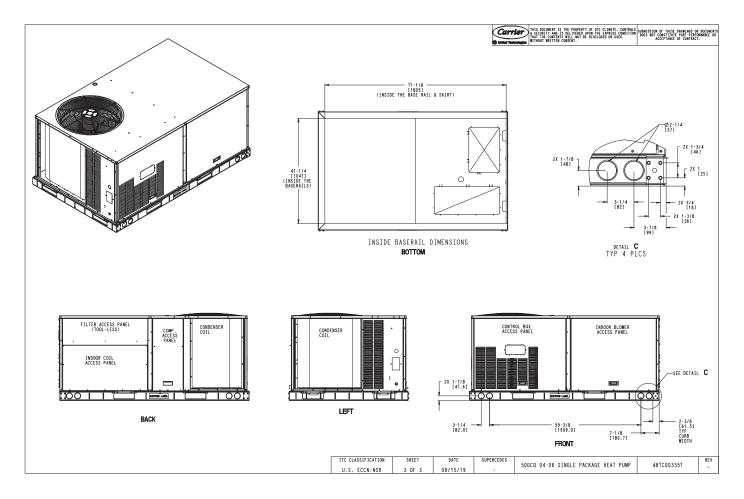
Project: San Bernardino County Building Prepared By: Ryan Walsh 02/28/2025 12:25PM



Packaged Rooftop Builder 1.79h Page 22 of 39

Certified Drawing for 3T qty 5

Project: San Bernardino County Building Prepared By: Ryan Walsh 02/28/2025 12:25PM



Packaged Rooftop Builder 1.79h Page 23 of 39

Part Number: 50GCQJ04A2A5-0A0A0

| Refrigerant: | R-410A | |
|---|--------------------|-----------|
| ARI ŠEER: | | |
| ARI SEER2: | 16.00 | |
| Base Unit Dimensions | | |
| Unit Length: | 74.4 | in |
| Unit Width: | /4.4 /4.6 | III in |
| | | |
| Unit Height: | 33.4 | ın |
| Operating Weight | 475 | |
| Base Unit Weight: | 475 | ID |
| Total Operating Weight: | 475 | lb |
| Unit | | |
| Unit Voltage-Phase-Hertz: | 230-3-60 | |
| Air Discharge: | | |
| Fan Drive Type: | | |
| Actual Airflow: | | CEM |
| Site Altitude: | | |
| Site Allitude: | 0 | п |
| Cooling Performance | | |
| Condenser Entering Air DB: | | |
| Evaporator Entering Air DB: | 80.0 | F |
| Evaporator Entering Air WB: | | |
| Entering Air Enthalpy: | | |
| Evaporator Leaving Air DB: | | |
| Evaporator Leaving Air WB: | | |
| Evaporator Leaving Air Enthalpy: | 24.66 | BTU/lb |
| Gross Cooling Capacity: | | |
| Gross Sensible Capacity: | | |
| Compressor Power Input: | | |
| Coil Bypass Factor: | | IV V |
| • | | |
| Heating Performance | | _ |
| Outdoor Ambient Temperature: | | |
| Entering Air Indoor Coil DB: | | |
| Leaving Air Indoor Coil DB: | | |
| Total Heating Capacity: | 34.30 | MBH |
| Integrated Heating Capacity: | | |
| Heating Power Input: | | kW |
| High Temperature COP: | 3.80 | |
| Low Temperature COP: | | |
| HSPF: | | |
| High Temperature COP2: | | |
| Low Temperature COP2: | | |
| HSPF2: | | |
| Supply Fan | | |
| External Static Pressure: | 0.50 | in wa |
| | | iii wg |
| Fan RPM: | | DLID |
| Fan Power: NOTE: Selected IFM RPM F | | RHL |
| NOTE | Kange. 1056 - 2190 | |
| Selection includes construction throwaway filter into the base fan curve. This filter | r is not MERV Rate | d. |
| Electrical Data | | |
| Voltage Range: | 187 - 253 | |
| Compressor #1 RLA: | 10.1 | |
| Designed Deafter Duilder 4.70h | | |

Performance Summary For 3T qty 5

Project: San Bernardino County Building

Prepared By: Ryan Walsh

02/28/2025 12:25PM

| Compressor #1 LRA: | 88 |
|-----------------------------------|------|
| Indoor Fan Motor Type: | MED |
| Indoor Fan Motor FLA (Total): | 5.1 |
| Power Supply MCA: | 19 |
| Power Supply MOCP (Fuse or HACR): | 25 |
| Disconnect Size FLA: | 19 |
| Disconnect Size LRA: | 97 |
| Electrical Convenience Outlet: | None |
| Outdoor Fan [Qty / FLA (ea)]: | |

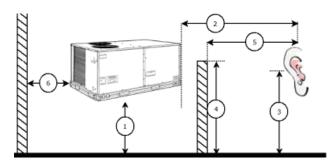
Control Panel SCCR: 5kA RMS at Rated Symmetrical Voltage

Acoustics

Sound Power Levels, db re 10E-12 Watts

| | Discharge | Inlet | Outdoor |
|------------|-----------|-------|---------|
| 63 Hz | 86.5 | 81.1 | 81.8 |
| 125 Hz | 79.1 | 72.8 | 81.8 |
| 250 Hz | 70.5 | 64.8 | 77.0 |
| 500 Hz | 63.0 | 56.4 | 72.6 |
| 1000 Hz | 60.0 | 57.7 | 69.9 |
| 2000 Hz | 56.4 | 49.1 | 64.6 |
| 4000 Hz | 53.5 | 43.2 | 59.3 |
| 8000 Hz | 55.0 | 39.6 | 55.6 |
| | | | |
| A-Weighted | 68.9 | 63.3 | 75.4 |

Advanced Acoustics



Advanced Accoustics Parameters

| 1. Unit height above ground: | 30.0 | ft |
|--|------|----|
| 2. Horizontal distance from unit to receiver: | 50.0 | ft |
| Receiver height above ground: | 5.7 | ft |
| 4. Height of obstruction: | 0.0 | ft |
| 5. Horizontal distance from obstruction to receive | 0.0 | ft |
| 6. Horizontal distance from unit to obstruction: | 0.0 | ft |

Detailed Acoustics Information

| Octave Band Center Freq. Hz | 63 | 125 | 250 | 500 | 1k | 2k | 4k | 8k | Overall |
|-----------------------------|------|------|------|------|------|------|------|------|----------|
| A | 81.8 | 81.8 | 77.0 | 72.6 | 69.9 | 64.6 | 59.3 | 55.6 | 85.9 Lw |
| В | 55.6 | 65.7 | 68.4 | 69.4 | 69.9 | 65.8 | 60.3 | 54.5 | 75.4 LwA |
| С | 49.4 | 49.4 | 44.6 | 40.2 | 37.5 | 32.2 | 26.9 | 23.2 | 53.5 Lp |
| D | 23.2 | 33.3 | 36.0 | 37.0 | 37.5 | 33.4 | 27.9 | 22.1 | 43.0 LpA |

Performance Summary For 3T qty 5

Project: San Bernardino County Building

02/28/2025 Prepared By: Ryan Walsh 12:25PM

Legend

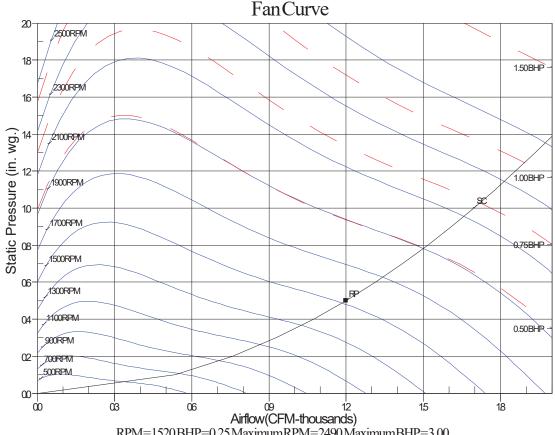
A Sound Power Levels at Unit's Acoustic Center, Lw

B A-Weighted Sound Power Levels at Unit's Acoustic Center, LwA

C Sound Pressure Levels at Specific Distance from Unit, Lp

D A-Weighted Sound Pressure Levels at Specific Distance from Unit, LpA

Calculation methods used in this program are patterned after the ASHRAE Guide; other ASHRAE Publications and the AHRI Acoustical Standards. While a very significant effort has been made to insure the technical accuracy of this program, it is assumed that the user is knowledgeable in the art of system sound estimation and is aware of the tolerances involved in real world acoustical estimation. This program makes certain assumptions as to the dominant sound sources and sound paths which may not always be appropriate to the real system being estimated. Because of this, no assurances can be offered that this software will always generate an accurate sound prediction from user supplied input data. If in doubt about the estimation of expected sound levels in a space, an Acoustical Engineer or a person with sound prediction expertise should be consulted.



RPM=1520BHP=0.25 MaximumRPM=2490 MaximumBHP=3.00 SC-SystemCurve RP-RatedPoint

5T qty 4

Tag Cover Sheet
Unit Report
Certified Drawing
Performance Report

Unit Report For 5T qty 4

Project: San Bernardino County Building

Prepared By: Ryan Walsh

02/28/2025 12:25PM

Unit Parameters

| Unit Model: | 50GCQJ06A2A5-0A0A0 |
|-------------------|-----------------------------------|
| Unit Size: | 06 (5 Tons) |
| Volts-Phase-Hertz | 230-3-60 |
| Heating Type: | Heat Pump |
| Refrigerant: | R-410Å |
| Heat Control: | Two Stage Cooling Models |
| Duct Cfg: | Vertical Supply / Vertical Return |

Dimensions (ft. in.) & Weight (lb.) ***

| Unit Length: | 6' 2.375'' | |
|-------------------------|------------|----|
| Unit Width: | 3' 10.625" | |
| Unit Height: | 3' 5.375" | |
| Total Operating Weight: | 596 | lb |
| | | |

^{***} Weights and Dimensions are approximate. Weight does not include unit packaging. Approximate dimensions are provided primarily for shipping purposes. For exact dimensions and weights, refer to appropriate product data catalog.

Lines and Filters

| Return Air Filter Type: | Throwaway |
|-----------------------------|-------------|
| Return Air Filter Quantity: | 4 |
| Return Air Filter Size: | 16 x 16 x 2 |

Selection includes construction throwaway filter into the base fan curve.

Unit Configuration

Direct Drive - EcoBlue - Medium Static Al/Cu - Al/Cu Base controls set up for field installed air management device Standard Packaging

Warranty Information

5-Year compressor parts (STD.)

1-Year parts (STD.)

3-Year SystemVu controller

No optional warranties were selected.

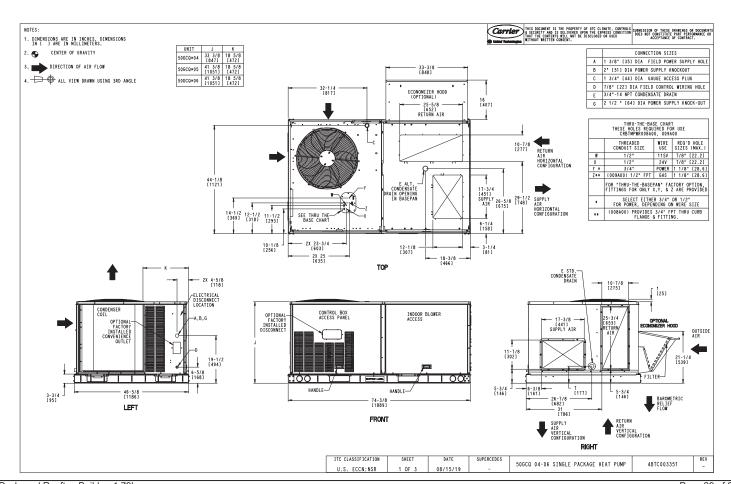
Ordering Information

| Part Number | Description | Quantity |
|--------------------|--------------|----------|
| 50GCQJ06A2A5-0A0A0 | Rooftop Unit | 4 |

Certified Drawing for 5T qty 4

Project: San Bernardino County Building Prepared By: Ryan Walsh

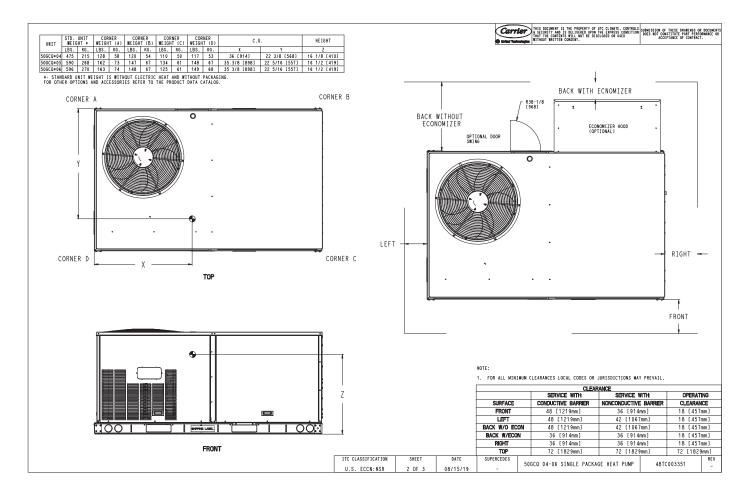
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Packaged Rooftop Builder 1.79h Page 29 of 39

Certified Drawing for 5T qty 4

Project: San Bernardino County Building Prepared By: Ryan Walsh 02/28/2025 12:25PM

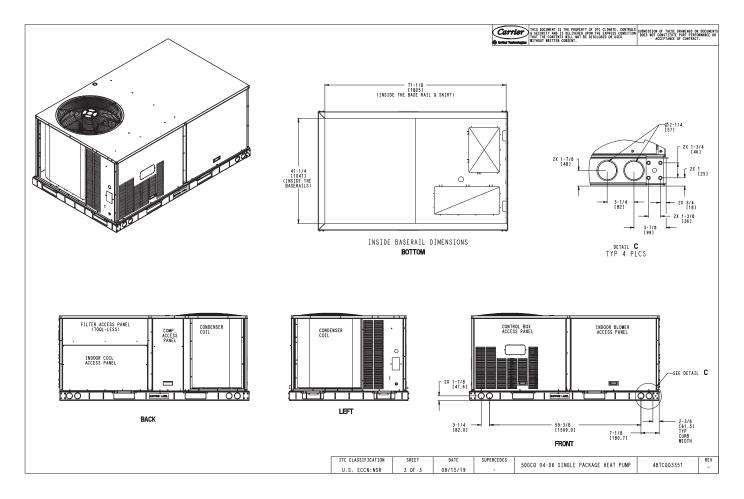


Packaged Rooftop Builder 1.79h Page 30 of 39

Certified Drawing for 5T qty 4

Project: San Bernardino County Building Prepared By: Ryan Walsh

02/28/2025 12:25PM



Packaged Rooftop Builder 1.79h Page 31 of 39

02/28/2025 12:25PM

Project: San Bernardino County Building Prepared By: Ryan Walsh

Part Number: 50GCQJ06A2A5-0A0A0

| Refrigerant: | R-410A | |
|---|---|--------|
| ARI ŠEER: | | |
| ARI SEER2: | 16.00 | |
| | | |
| Base Unit Dimensions | | |
| Unit Length: | | |
| Unit Width: | | |
| Unit Height: | 41.4 | in |
| Operating Weight | | |
| Base Unit Weight: | 596 | lb |
| Total Operating Weight: | 596 | lb |
| Unit | | |
| Unit Voltage-Phase-Hertz: | 230-3-60 | |
| Air Discharge: | | |
| Fan Drive Type: | | |
| Actual Airflow: | | CEM |
| Site Altitude: | | |
| | | |
| Cooling Performance | | _ |
| Condenser Entering Air DB: | | |
| Evaporator Entering Air DB: | | |
| Evaporator Entering Air WB: | 67.0 | F |
| Entering Air Enthalpy: | 31.44 | BTU/lb |
| Evaporator Leaving Air DB: | 58.1 | F |
| Evaporator Leaving Air WB: | | |
| Evaporator Leaving Air Enthalpy: | | |
| Gross Cooling Capacity: | 61.35 | MBH |
| Gross Sensible Capacity: | | |
| Compressor Power Input: | | |
| Coil Bypass Factor: | | |
| Heating Performance | | |
| Outdoor Ambient Temperature: | 47.0 | F |
| Entering Air Indoor Coil DB: | | |
| Leaving Air Indoor Coil DB: | | |
| Total Heating Capacity: | | |
| Integrated Heating Capacity: | | |
| Heating Power Input: | | |
| High Temperature COP: | 3.80 | IX V V |
| Low Temperature COP: | | |
| HSPF: | | |
| High Temperature COP2: | 3.70 | |
| Low Temperature COP2: | | |
| HSPF2: | | |
| | | |
| Supply Fan | 0.50 | |
| External Static Pressure: | | ın wg |
| Fan RPM: | | |
| Fan Power: | | BHP |
| NOTE: | Selected IFM RPM Range: 1228 - 2390 | |
| Selection includes construction throwaway filter into the b | pase fan curve. This filter is not MERV Rated | i. |
| Electrical Data | | |
| Voltage Range: | 187 - 253 | |
| Compressor #1 RLA: | | |
| 1 *** | | |

Performance Summary For 5T qty 4

Project: San Bernardino County Building

Prepared By: Ryan Walsh

02/28/2025 12:25PM

| Compressor #1 LRA: | 110 |
|-----------------------------------|------|
| Indoor Fan Motor Type: | MED |
| Indoor Fan Motor FLA (Total): | 9.2 |
| Power Supply MCA: | |
| Power Supply MOCP (Fuse or HACR): | 45 |
| Disconnect Size FLA: | 32 |
| Disconnect Size LRA: | 123 |
| Electrical Convenience Outlet: | None |
| Outdoor Fan [Qty / FLA (ea)]: | 4/42 |

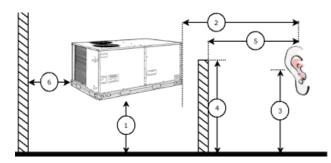
Control Panel SCCR: 5kA RMS at Rated Symmetrical Voltage

Acoustics

Sound Power Levels, db re 10E-12 Watts

| | Discharge | Inlet | Outdoor |
|------------|-----------|-------|---------|
| 63 Hz | 88.5 | 88.6 | 85.6 |
| 125 Hz | 78.8 | 75.6 | 84.7 |
| 250 Hz | 73.0 | 70.4 | 80.5 |
| 500 Hz | 70.4 | 61.9 | 76.0 |
| 1000 Hz | 66.2 | 64.9 | 72.4 |
| 2000 Hz | 63.3 | 55.3 | 68.0 |
| 4000 Hz | 61.0 | 49.5 | 62.8 |
| 8000 Hz | 58.3 | 43.3 | 59.3 |
| | | | |
| A-Weighted | 73.1 | 69.3 | 79.0 |

Advanced Acoustics



Advanced Accoustics Parameters

| 1. Unit height above ground: | 30.0 | ft |
|--|------|----|
| 2. Horizontal distance from unit to receiver: | 50.0 | ft |
| Receiver height above ground: | 5.7 | ft |
| 4. Height of obstruction: | 0.0 | ft |
| 5. Horizontal distance from obstruction to receive | 0.0 | ft |
| 6. Horizontal distance from unit to obstruction: | 0.0 | ft |

Detailed Acoustics Information

| Octave Band Center Freq. Hz | 63 | 125 | 250 | 500 | 1k | 2k | 4k | 8k | Overall |
|-----------------------------|------|------|------|------|------|------|------|------|----------|
| A | 85.6 | 84.7 | 80.5 | 76.0 | 72.4 | 68.0 | 62.8 | 59.3 | 89.2 Lw |
| В | 59.4 | 68.6 | 71.9 | 72.8 | 72.4 | 69.2 | 63.8 | 58.2 | 78.5 LwA |
| С | 53.2 | 52.3 | 48.1 | 43.6 | 40.0 | 35.6 | 30.4 | 26.9 | 56.8 Lp |
| D | 27.0 | 36.2 | 39.5 | 40.4 | 40.0 | 36.8 | 31.4 | 25.8 | 46.1 LpA |

Performance Summary For 5T qty 4

Project: San Bernardino County Building

02/28/2025 Prepared By: Ryan Walsh 12:25PM

Legend

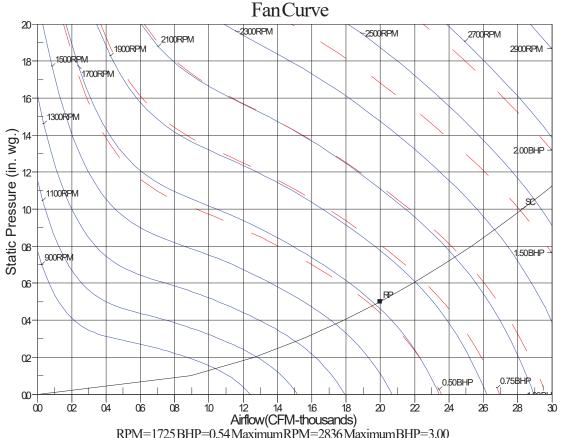
A Sound Power Levels at Unit's Acoustic Center, Lw

B A-Weighted Sound Power Levels at Unit's Acoustic Center, LwA

C Sound Pressure Levels at Specific Distance from Unit, Lp

D A-Weighted Sound Pressure Levels at Specific Distance from Unit, LpA

Calculation methods used in this program are patterned after the ASHRAE Guide; other ASHRAE Publications and the AHRI Acoustical Standards. While a very significant effort has been made to insure the technical accuracy of this program, it is assumed that the user is knowledgeable in the art of system sound estimation and is aware of the tolerances involved in real world acoustical estimation. This program makes certain assumptions as to the dominant sound sources and sound paths which may not always be appropriate to the real system being estimated. Because of this, no assurances can be offered that this software will always generate an accurate sound prediction from user supplied input data. If in doubt about the estimation of expected sound levels in a space, an Acoustical Engineer or a person with sound prediction expertise should be consulted.



RPM=1725BHP=0.54MaximumRPM=2836MaximumBHP=3.00 SC-SystemCurve RP-RatedPoint

HP-25

Tag Cover Sheet
Unit Report
Certified Drawing
Performance Report

Unit Report For HP-25

Project: San Bernardino County Building

Prepared By: Ryan Walsh

02/28/2025 12:25PM

Unit Parameters

| Unit Model: | 50NL-B365 |
|--------------------|-------------------|
| Unit Size: | 36 (3 Tons) |
| Volts-Phase-Hertz: | 230-3-60 |
| Heating Type: | None |
| Refrigerant: | R-454B |
| Duct Cfa: | Vertical/Vertical |

| Dimensi | ons (ft. | in.) & | Weight | (lb.) *** |
|---------|----------|--------|--------|-----------|
| | | | | |

| Unit Length: | 4' 0.25'' |
|---|-------------------------------|
| Unit Width: | 3' 8.1875" |
| Unit Height: | 3' 7'' |
| *** Weights and Dimensions are approxir | nate. Weight does not include |
| roof curbs, unit packaging, field install | ed accessories or |
| factory installed options. Approximate | dimensions are provided |
| primarily for shipping purposes. For ex | xact dimensions and weights, |
| refer to appropriate product data catal | |
| Base Unit Weight (Does not inc | clude any accessories): |

Warranty Information

1 year warranty on parts 5 year warranty on compressor

No optional warranties were selected.

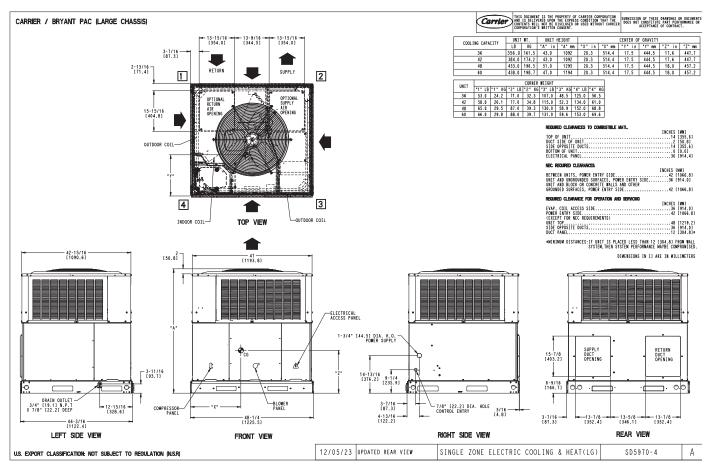
Ordering Information

| Part Number | Description | Quantity |
|-------------|--------------|----------|
| 50NL-B365 | Rooftop Unit | 1 |

Certified Drawing for HP-25

Project: San Bernardino County Building Prepared By: Ryan Walsh

02/28/2025 12:25PM



Packaged Rooftop Builder 1.79h Page 37 of 39

02/28/2025 12:25PM

Project: San Bernardino County Building Prepared By: Ryan Walsh

Part Number:50NL-B36---5

| Deficement | D 454D | |
|--|-----------------|----------|
| Refrigerant: | | |
| ARI SEER2: | 13.40 | |
| Base Unit Dimensions | | |
| Unit Length: | 18.3 | in |
| Unit Width: | | |
| | | |
| Unit Height: Base Unit Weight (Does not include any accessories): | 43.0 | in Ih |
| base unit weight (boes not include any accessories): | 356 | ID |
| Unit | | |
| Unit Voltage-Phase-Hertz: | 230-3-60 | |
| Air Discharge: | | |
| Fan Drive Type: | | |
| Actual Airflow: | | CEM |
| Site Altitude: | | |
| Oile Ailliude. | | 10 |
| Cooling Performance | | |
| Condenser Entering Air DB: | 95.0 | F |
| Evaporator Entering Air DB: | | |
| Evaporator Entering Air WB: | | |
| Entering Air Enthalpy: | | |
| Evaporator Leaving Air DB: | | |
| Evaporator Leaving Air WB: | | |
| Evaporator Leaving Air VVI | | |
| Net Cooling Capacity: | | |
| Net Sensible Capacity: | | |
| Total Unit Power Input: | | kW |
| | | KVV |
| Coil Bypass Factor: | 0.000 | |
| Supply Fan | | |
| External Static Pressure: | 0.50 | in wa |
| Options / Accessories Static Pressure | | 3 |
| Wet Coil: | 0.05 | in wa |
| Application External Static (ESP + Unit Opts/Acc.): | | |
| Fan RPM: | | 9 |
| Fan Power: | | BHP |
| Fan Motor Size, hp: | 3/4 | D |
| NOTE: Med-High Mo | | |
| 11012 | to: opeou, roit | |
| Selection includes construction throwaway filter into the base fan curve. This filter is | not MERV Rate | d. |
| | | |
| Electrical Data | | |
| Minimum Voltage: | 197 | |
| Maximum Voltage: | | |
| Compressor RLA: | | |
| Compressor LRA: | | |
| Outdoor Fan FLA (ea): | 1.05 | |
| Indoor Fan Motor FLA (Total): | | |
| Power Supply MCA: | 16.2 | |
| Power Supply MOCP (Fuse or HACR): | 25 | |
| Control Panel SCCR: 5kA RMS at Rated Symmetrical Voltage | | |
| Acoustics | | |
| Sound Rating: | 75.0 | db |
| Sound Power Levels, db re 10E-12 Watts | | |
| 2.2 | | |

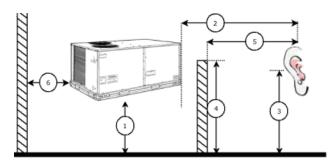
Performance Summary For HP-25

Project: San Bernardino County Building

02/28/2025 Prepared By: Ryan Walsh 12:25PM

| | Discharge | Inlet | Outdoor |
|---------|-----------|-------|---------|
| 63 Hz | NA | NA | NA |
| 125 Hz | NA | NA | 66.0 |
| 250 Hz | NA | NA | 69.0 |
| 500 Hz | NA | NA | 71.0 |
| 1000 Hz | NA | NA | 67.0 |
| 2000 Hz | NA | NA | 64.0 |
| 4000 Hz | NA | NA | 60.0 |
| 8000 Hz | NA | NA | 55.0 |

Advanced Acoustics



Advanced Accoustics Parameters

| 1. Unit height above ground: | 30.0 | ft |
|--|---------------|----|
| 2. Horizontal distance from unit to receiver: | 50.0 | ft |
| 3. Receiver height above ground: | 5.7 | ft |
| 4. Height of obstruction: | 0.0 | ft |
| 5. Horizontal distance from obstruction to receive | r: 0.0 | ft |
| 6. Horizontal distance from unit to obstruction: | 0.0 | ft |

Detailed Acoustics Information

| Octave Band Center Freq. Hz | 63 | 125 | 250 | 500 | 1k | 2k | 4k | 8k | Overall |
|-----------------------------|------|------|------|------|------|------|------|------|----------|
| Α | 0.0 | 66.0 | 69.0 | 71.0 | 67.0 | 64.0 | 60.0 | 55.0 | 75.2 Lw |
| В | - | 49.9 | 60.4 | 67.8 | 67.0 | 65.2 | 61.0 | 53.9 | 72.3 LwA |
| | 26.2 | | | | | | | | |
| С | 0.0 | 33.6 | 36.6 | 38.6 | 34.6 | 31.6 | 27.6 | 22.6 | 42.8 Lp |
| D | - | 17.5 | 28.0 | 35.4 | 34.6 | 32.8 | 28.6 | 21.5 | 39.9 LpA |
| | 26.2 | | | | | | | | |

Legend

A Sound Power Levels at Unit's Acoustic Center, Lw

B A-Weighted Sound Power Levels at Unit's Acoustic Center, LwA

C Sound Pressure Levels at Specific Distance from Unit, Lp

D A-Weighted Sound Pressure Levels at Specific Distance from Unit, LpA

Calculation methods used in this program are patterned after the ASHRAE Guide; other ASHRAE Publications and the AHRI Acoustical Standards. While a very significant effort has been made to insure the technical accuracy of this program, it is assumed that the user is knowledgeable in the art of system sound estimation and is aware of the tolerances involved in real world acoustical estimation. This program makes certain assumptions as to the dominant sound sources and sound paths which may not always be appropriate to the real system being estimated. Because of this, no assurances can be offered that this software will always generate an accurate sound prediction from user supplied input data. If in doubt about the estimation of expected sound levels in a space, an Acoustical Engineer or a person with sound prediction expertise should be consulted.

26SCA4

Comfort[™] Series Single-Stage Air Conditioner with Puron Advance[™] Refrigerant 1.5 To 5 Tons



Product Data



This unit has been designed utilizing Carrier's non-ozone depleting, low global warming potential Puron AdvanceTM refrigerant.

Air conditioners with Puron AdvanceTM refrigerant provide a collection of features unmatched by any other family of equipment.

NOTE: Ratings contained in this document are subject to change at any time. Always refer to the AHRI directory (www.ahridirectory.org) for the most up-to-date ratings information.

Industry leading Features / Benefits

Efficiency

- 13.4 16.0 SEER2 / 11.0 13.5 EER2
- · Microchannel Technology refrigeration system
- · Indoor air quality accessories available

Comfort

• System supports programmable or standard thermostat controls

Reliability

- Non-ozone depleting, low global warming potential Puron AdvanceTM refrigerant
- · Scroll compressor
- Internal pressure relief valve
- · Internal thermal overload
- · Filter drier

Durability

WeatherArmorTM Protection Package:

- · Solid, durable sheet metal construction
- · Dense wire coil guard

Applications

- Long—line up to 250 feet (76.20 m) total equivalent length, up to 200 feet (60.96 m) condenser above evaporator, or up to 80 ft. (24.4 m) evaporator above condenser (See Long Line Guide for more information.)
- Low ambient cooling (down to $0^{\circ}F$ / -18°C) with approved low ambient accessory kits.

Limited Warranty

- 5-year parts limited warranty (including compressor and coil)
 10-year parts limited warranty (including compressor and coil) with timely registration*
 - Equipment must be registered within 90 days of original installation, except in jurisdictions where warranty benefits cannot be conditioned on registration.
 - * Applies to original purchaser/homeowner and not available to subsequent owners except in jurisdictions where applicable laws dictate otherwise.

See warranty certificate for complete details and restrictions.

Model Number Nomenclature

| 1 | 2 | 3 | 4 | 5 | 6 | 7,8 | 9 | 10 | 11 | 12 |
|---------------------------|---|------------------|-----------|--------------------|-----------------|---|-------------|------------|--------------------|-------------|
| N | N | Α | Α | A/N | N | N | A/N | A/N | A/N | N |
| 2 | 6 | S | С | Α | 4 | 18 | N | 0 | 0 | 3 |
| Refriger OD | | OD Design Type | Tier | Major Series | SEER2 | Nominal Cooling Capacity | Region | Feature | Special Feature | Voltage |
| 26 = F Advar (R-454 | | S = Single Stage | C=Comfort | A = Initial Series | 4=13.4 SEER2 | 18 = 18,000 BTUH (1.5 Tons) 24 = 24,000 BTUH (2 Tons) 30 = 30,000 BTUH (2.5 Tons) 36 = 36,000 BTUH (3 Tons) 42 = 42,000 BTUH (3.5 Tons) 48 = 48,000 BTUH (4 Tons) 60 = 60,000 BTUH (5 Tons) | N= North AC | 0=Standard | 0=Standard | 3=208-230-1 |







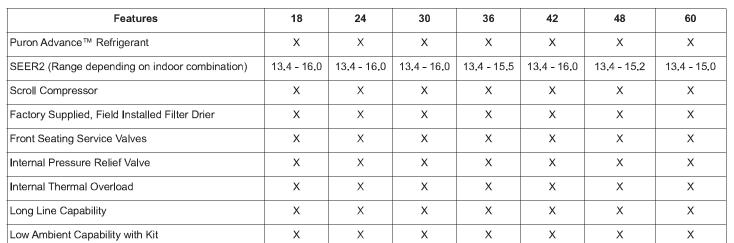




CATALOG ORDERING NUMBERS

| Size | Model Number |
|------|--------------|
| 18 | 26SCA418N003 |
| 24 | 26SCA424N003 |
| 30 | 26SCA430N003 |
| 36 | 26SCA436N003 |
| 42 | 26SCA442N003 |
| → 48 | 26SCA448N003 |
| 60 | 26SCA460N003 |

STANDARD FEATURES



PHYSICAL DATA

| UNIT SIZE | 18 | 24 | 30 | 36 | 42 | 48 | 60 |
|--------------------------|-------------|-------------|--------------|---------------------|-----------------|-------------|-------------|
| COMPRESSOR TYPE | | | | Scroll | | | |
| REFRIGERANT | | | Puro | on Advance™ (R-4 | 54B) | | |
| Factory Charge lb (kg)* | 3.90 (1.77) | 3.90 (1.77) | 5.30 (2.4) | 4.90 (2.22) | 6.60 (2.99) | 7.10 (3.22) | 6.40 (2.90) |
| COND FAN | | | Forward Swep | ot or Propeller Typ | e, Direct Drive | | |
| Air Discharge | | | | Vertical | | | |
| Air Qty (CFM) | 1600 | 2100 | 2700 | 2800 | 3800 | 3000 | 4000 |
| Motor HP | 1/12 | 1/10 | 1/10 | 1/10 | 1/4 | 1/5 | 1/4 |
| Motor RPM | 1100 | 1100 | 825 | 825 | 1100 | 1100 | 1100 |
| COND COIL | | | | | | | |
| Face Area (Sq ft) | 9.7 | 13.1 | 17.2 | 15.1 | 21.5 | 15.1 | 17.2 |
| Fins per In. | 25 | 25 | 25 | 20 | 20 | 20 | 20 |
| Rows | 1 | 1 | 1 | 1 | 1 | 2 | 2 |
| Circuits | 4 | 4 | 4 | 4 | 6 | 6 | 8 |
| VALVE CONNECT. (In. ID) | | | | | | | |
| Vapor | 3/4 | 3/4 | 3/4 | 7/8 | 7/8 | 7/8 | 7/8 |
| Liquid | | | | 3/8" | | | |
| REFRIGERANT TUBES* (II | n. OD) | | | | | | |
| Rated Vapor [†] | 5/8 | 3/4 | 3/4 | 7/8 | 7/8 | 7/8 | 1 1/8 |
| Rated Liquid Line‡ | | 1 | | 3/8" | | | 1 |

^{*.}For 15 ft. lineset. Adjust per installation instructions. Refrigerant charge varies with indoor unit; refer to refrigerant charge label.
†.Units are rated with 25 ft (7.6 m) of lineset length. See Vapor Line Sizing and Cooling Capacity Loss table when using other sizes and lengths of lineset.
‡.See Liquid Line Sizing For Cooling Only Systems with Puron Advance™ Refrigerant tables.

Note: See unit Installation Instruction for proper installation.

REFRIGERANT PIPING LENGTH LIMITATIONS

Liquid Line Sizing and Maximum Total Equivalent Lengths for Cooling Only Systems with Puron Advance™ Refrigerant:

The maximum allowable length of a residential split system depends on the liquid line diameter and vertical separation between indoor and outdoor units.

See Table below for liquid line sizing and maximum lengths:

Table 1 – Maximum Total Equivalent Length Outdoor Unit BELOW Indoor Unit

| Size | Liquid Line | Liquid Line Diam. (in.) | AC v | with Puron Ad | lvance™ Refri | | num Total Equ cal Separation | | n [*] : Outdoor u | nit BELOW In | door |
|-------|-------------|----------------------------|----------------------------------|-------------------|--------------------|--------------------|---------------------------------|----------------------|----------------------------|----------------------|----------------------|
| 0120 | Connection | w/ TXV | 0 - 5 (0 - 1.5) | 6-10 (1.8-3.0) | 11-20 (3.4-6.1) | 21-30 (6.4-9.1) | 31-40 (9.4-12.2) | 41-50 (12.5-15.2) | 51-60 (15.5-18.3) | 61-70 (18.6-21.3) | 71-80 (21.6-24.4) |
| | | 1/4 | 150 | 150 | 125 | 100 | 100 | 75 | - | _ | _ |
| 18000 | 3/8 | 5/16 | 250 | 250 | 250 | 250 | 250 | 250 | 250 | 225 | 150 |
| | | 3/8 | 250 | 250 | 250 | 250 | 250 | 250 | 250 | 250 | 250 |
| | | 1/4 | 75 | 75 | 75 | 50 | 50 | _ | _ | _ | - |
| 24000 | 3/8 | 5/16 | 250 | 250 | 250 | 250 | 250 | 225 | 175 | 125 | 100 |
| | | 3/8 | 250 | 250 | 250 | 250 | 250 | 250 | 250 | 250 | 250 |
| | | 1/4 | 30 | _ | _ | _ | | _ | _ | _ | _ |
| 30000 | 3/8 | 5/16 | 175 | 225 | 200 | 175 | 125 | 100 | 75 | _ | - |
| | | 3/8 | 250 | 250 | 250 | 250 | 250 | 250 | 250 | 250 | 250 |
| 36000 | 3/8 | 5/16 | 175 | 150 | 150 | 100 | 100 | 100 | 75 | _ | _ |
| 36000 | 3/0 | 3/8 | 250 | 250 | 250 | 250 | 250 | 250 | 250 | 250 | 250 |
| 42000 | 3/8 | 5/16 | 125 | 100 | 100 | 75 | 75 | 50 | _ | _ | - |
| 42000 | 3/0 | 3/8 | 250 | 250 | 250 | 250 | 250 | 250 | 250 | 250 | 150 |
| 48000 | 3/8 | 3/8 | 250 | 250 | 250 | 250 | 250 | 250 | 230 | 160 | _ |
| 60000 | 3/8 | 3/8 | 250 | 250 | 250 | 225 | 190 | 150 | 110 | _ | - |

^{*.} Total equivalent length accounts for losses due to elbows or fitting. See the Long Line Guideline for details.

Table 2 – Maximum Total Equivalent Length Outdoor Unit ABOVE Indoor Unit

| Size | Liquid Line | Liquid Line Diam. (in.) | AC wi | th Puron Advan | ce™ Refrigerar | | tal Equivalent I aration ft (m) | _ength [*] : Outdo | oor unit ABOVE | Indoor |
|-------|-------------|----------------------------|-------------|---------------------|----------------------|-----------------------|------------------------------------|-----------------------------|------------------------|------------------------|
| 0120 | Connection | w/ TXV | 25 (7.6) | 26-50 (7.9-15.2) | 51-75 (15.5-22.9) | 76-100 (23.2-30.5) | 101-125 (30.8-38.1) | 126-150 (38.4-45.7) | 151-175 (46.0-53.3) | 176-200 (53.6-61.0) |
| | | 1/4 | 175 | 250 | 250 | 250 | 250 | 250 | 250 | 250 |
| 18000 | 3/8 | 5/16 | 250 | 250 | 250 | 250 | 250 | 250 | 250 | 250 |
| | | 3/8 | 250 | 250 | 250 | 250 | 250 | 250 | 250 | 250 |
| | | 1/4 | 100 | 125 | 175 | 200 | 225 | 250 | 250 | 250 |
| 24000 | 3/8 | 5/16 | 250 | 250 | 250 | 250 | 250 | 250 | 250 | 250 |
| | | 3/8 | 250 | 250 | 250 | 250 | 250 | 250 | 250 | 250 |
| | | 1/4 | 30 | _ | _ | _ | | | _ | - |
| 30000 | 3/8 | 5/16 | 250 | 250 | 250 | 250 | 250 | 250 | 250 | 250 |
| | | 3/8 | 250 | 250 | 250 | 250 | 250 | 250 | 250 | 250 |
| 36000 | 3/8 | 5/16 | 225 | 250 | 250 | 250 | 250 | 250 | 250 | 250 |
| 30000 | 3/6 | 3/8 | 250 | 250 | 250 | 250 | 250 | 250 | 250 | 250 |
| 42000 | 3/8 | 5/16 | 175 | 200 | 250 | 250 | 250 | 250 | 250 | 250 |
| 42000 | 3/0 | 3/8 | 250 | 250 | 250 | 250 | 250 | 250 | 250 | 250 |
| 48000 | 3/8 | 3/8 | 250 | 250 | 250 | 250 | 250 | 250 | 250 | 250 |
| 60000 | 3/8 | 3/8 | 250 | 250 | 250 | 250 | 250 | 250 | 250 | 250 |

^{*.} Total equivalent length accounts for losses due to elbows or fitting. See the Long Line Guideline for details.

^{- =} Outside acceptable range

^{- =} Outside acceptable range

AHRI RATINGS

NOTE: Ratings contained in this document are subject to change at any time.

For AHRI ratings certificates, please refer to the AHRI directory www.ahridirectory.org

Additional ratings and system combinations can be accessed via the Ratings Database here: www.MyCarrierRatings.com

Electrical Data

| UNIT SIZE | V/PH | OPER | VOLTS* | CO | MPR | FAN | MCA | MAX FUSE [†] or |
|-----------|-----------|------|--------|-------|------|------|-------|--------------------------|
| ONIT SIZE | V/F11 | MAX | MIN | LRA | RLA | FLA | - MOA | CKT BRK AMPS |
| 18 | | | | 41.5 | 8.3 | 0.4 | 10.8 | 15 |
| 24 | | | | 59.0 | 9.2 | 0.6 | 12.1 | 20 |
| 30 | | | | 67.0 | 12.5 | 0.6 | 16.2 | 25 |
| 36 | 208/230/1 | 253 | 197 | 82.5 | 13.5 | 0.6 | 17.5 | 30 |
| 42 | - | | | 109.0 | 14.7 | 1.40 | 19.8 | 30 |
| 48 | 1 | | | 126.0 | 17.3 | 1.05 | 22.7 | 40 |
| 60 | | | | 157.0 | 23.7 | 1.52 | 31.1 | 50 |

^{*.}Permissible limits of the voltage range at which the unit will operate satisfactorily

FLA- Full Load Amps

LRA - Locked Rotor Amps

MCA- Minimum Circuit Amps

RLA- Rated Load Amps

NOTE: Control circuit is 24V on all units and requires external power source. Copper wire must be used from service disconnect to unit.

All motors/compressors contain internal overload protection.

A-Weighted Sound Power (dBA) without Sound Shield

| LINIT CIZE | STANDARD | | TYPICA | L OCTAVE BAN | D SPECTRUM (v | vithout tone adj | ustment) | |
|------------|----------|-----|--------|--------------|---------------|------------------|----------|------|
| UNIT SIZE | RATING | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 18 | 72 | 66 | 66 | 66 | 66 | 62 | 60 | 55 |
| 24 | 74 | 72 | 68 | 71 | 70 | 65 | 61 | 57 |
| 30 | 72 | 67 | 68 | 68 | 68 | 63 | 60 | 54 |
| 36 | 73 | 68 | 69 | 69 | 69 | 65 | 62 | 61 |
| 42 | 74 | 71 | 71 | 70 | 70 | 65 | 62 | 59 |
| 48 | 77 | 73 | 76 | 74 | 73 | 68 | 66 | 64 |
| 60 | 74 | 73 | 73 | 71 | 70 | 64 | 62 | 59 |

A-Weighted Sound Power (dBA) with Accessory Sound Shield

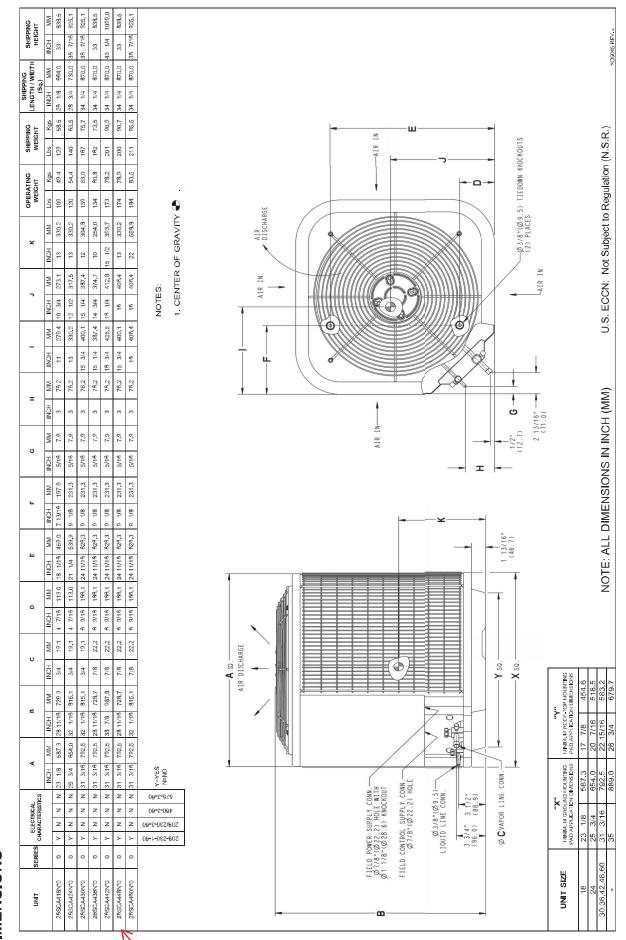
| UNIT SIZE | STANDARD | | TYPICA | AL OCTAVE BAN | D SPECTRUM (w | vithout tone adju | stment) | |
|-----------|----------|-----|--------|---------------|---------------|-------------------|---------|------|
| UNIT SIZE | RATING | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 18 | 70 | 68 | 66 | 66 | 65 | 61 | 58 | 53 |
| 24 | 74 | 74 | 68 | 71 | 71 | 65 | 60 | 56 |
| 30 | 71 | 68 | 67 | 68 | 67 | 62 | 59 | 52 |
| 36 | 71 | 68 | 68 | 68 | 67 | 62 | 59 | 57 |
| 42 | 73 | 72 | 71 | 70 | 69 | 64 | 60 | 56 |
| 48 | 77 | 76 | 75 | 73 | 72 | 67 | 64 | 62 |
| 60 | 73 | 75 | 74 | 71 | 69 | 63 | 60 | 56 |

NOTE: Tested in compliance with AHRI 270 but not listed with AHRI.

Charging Subcooling (TXV-Type Expansion Device)

| UNIT SIZE | REQUIRED SUBCOOLING (F) | Indoor |
|-----------|----------------------------|--------|
| 18 | 8 | |
| 24 | 10 | |
| 30 | 9 | |
| 36 | 8 | TXV |
| 42 | 8 | |
| 48 | 12 | |
| 60 | 10 | |

^{†.}Time-Delay fuse.



CAAMP Evaporator Coil for Puron Advance™ (R-454B) Refrigerant A Coil, Cased, Multipoise



Product Data

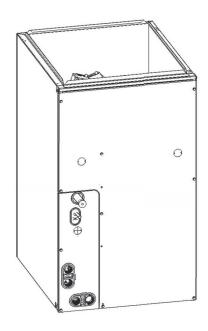


Fig. 1 - CAAMP

A240150









The CAAMP evaporator coil incorporates proven standards for reliable system operation and performance throughout the life of this quality Air Conditioner or Heat Pump system. These quality evaporator coils, manufactured and installed as part of a total comfort system, provide AHRI-rated performance ratings and are additionally listed with UL and c-UL.

This coil is available for use with Puron Advance Refrigerant only. It is a cased A-coil that is housed in a durable, 24-gauge, pre-painted taupe metallic cabinet. The fully insulated cabinet (foil faced with R-2.1 insulation properties) provides for quiet efficient operation of the evaporator coil. This multipoise coil offers the most in installation application flexibility; one coil for a variety of applications with fewer SKUs to stock.

DESIGN FEATURES

Performance

Designed with performance in mind, this new A-coil offers low pressure drops to enhance system performance and airflow characteristics.

Thermostatic Expansion Valves (TXV)

All coils have refrigerant-specific, factory-installed TXVs.

Durable Condensate Pans (2)

The corrosion-resistant drain pans, one for vertical applications and one for horizontal, are designed in a "fiberglass reinforced thermoset polyester" material (FRTP) that offers unsurpassed pan strength. It is engineered with proper slope in both pans to help ensure water drainage, improved moisture removal, and home comfort.

Refrigerant Connections

Provided with industry proven sweat connections for leak-free operation to maintain system reliability. All models come from the factory with enough length of straight tube to accommodate braze-less compression fittings.

The side mounting tubing to the coil slabs allows for easy cleaning/servicing of the coils, as well as easy access to the TXV.

Dissipation System

All models are shipped with a complete A2L (R-454B) dissipation system, which is required for installation.

Table 1 – Dissipation Parts List

| Component | Location |
|--------------------------------|-------------------|
| Refrigerant Sensor | Factory Installed |
| Sensor Wire Harness | Factory Installed |
| Leak Dissipation Control Board | Parts Box |
| Dissipation Board Housing | Parts Box |
| Power Wire Harness | Parts Box |

Burst Pressure

Meets or exceeds burst pressure of 2100 psi, which is at least three to five times the pressure it would see in actual application.

UV Knockouts

This cased coil comes with factory-installed UV knockouts for quick and easy installation of UV lights.

Serviceability

Comes with a "split delta plate" for easy, quick access to the coil for service and cleaning. Also, after the door is removed, the coil is removable from the front of the unit without use of any tools.

Warranty

- Default 5-year parts limited warranty:
 - 10-year parts limited warranty with timely registration*.
 Equipment must be registered within 90 days of original installation, except in jurisdictions where warranty benefits cannot be conditioned on registration.
 - * Applies to original purchaser/homeowner and not available to subsequent owners, except in jurisdictions where laws dictate otherwise

See Warranty certificate for complete details and restrictions.

MODEL NUMBER NOMENCLATURE

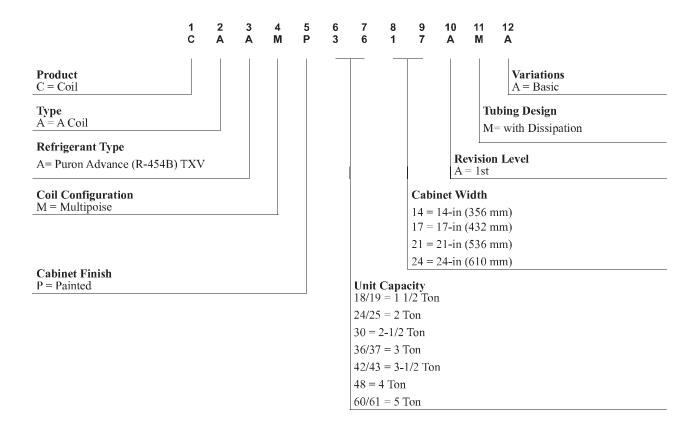
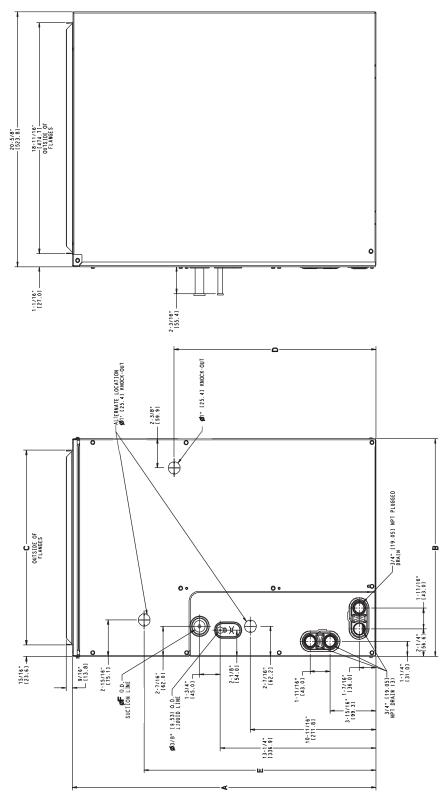


Table 2 - Accessories

| Part Number | Description |
|--------------|---|
| KGADA0101ALL | Coil Adapter Kits - No Offset |
| KGADA0201ALL | Coil Adapter Kits - Single Offset |
| KGADA0301ALL | Coil Adapter Kits - Double Offset |
| ACAWHNDIS01A | Alternate Wire Harness/Relay Kit — Higher Airflow |
| ACAINTDIS10A | CNN / Communicating Plug (10-pack) |

DIMENSIONS

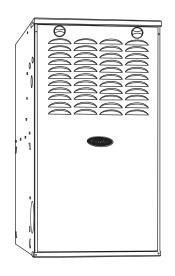
| | SERIES | ∢ | | B (Cabinet Width) | s t Width) | υ | | ٥ | _ | ш | ш | Suctio | F (Suction Line) | OPERATING WEIGHT | ATING 3HT | SHIPPING WEIGHT | NG HT | SHIPPING HEIGHT | PING | SHIPPING WIDTH | ING TH | SHIPPING DEPTH | E E |
|--------------|--------|----------|-------|----------------------|---------------|---------|-------|----------|-------|--------|-------|--------|---------------------|---------------------|--------------|--------------------|----------|--------------------|-------|-------------------|-----------|-------------------|-------|
| | | NCH | MM | NCH | MM | NCH | MM | NCH | MM | NCH | MM | NCH | MM | rps | Kgs | rps | Kgs | NCH | MM | NCH | MM | NCH | MM |
| CAAMP1917AMA | A 2 | 25 13/16 | 9229 | 17 1/2 | 444.5 | 15 3/4 | 400.0 | 17 3/16 | 436.6 | 19 3/4 | 501.6 | 5/8 | 15.9 | 63.2 | 28.7 | 66.5 | 30.2 | 23.6 | 599.9 | 18.1 | 460.5 | 23.4 | 595.1 |
| CAAMP2414AMA | V . | 25 13/16 | 9.559 | 14 3/16 | 360.4 | 12 7/16 | 315.9 | 17 3/16 | 436.6 | | , | 9/9 | 15.9 | 50.1 | 22.7 | 54.5 | 24.7 | 26.6 | 676.1 | 14.8 | 376.4 | 23.4 | 595.1 |
| CAAMP2417AMA | 4 | 25 13/16 | 9229 | 17 1/2 | 444.5 | 15 3/4 | 400.0 | 10 11/16 | 271.5 | | | 9/9 | 15.9 | 54.2 | 24.6 | 58.6 | 26.6 | 23.6 | 599.9 | 18.1 | 460.5 | 23.4 | 595.1 |
| CAAMP2517AMA | Α | 29 3/4 | 755.6 | 17 1/2 | 444.5 | 15 3/4 | 400.0 | 19 3/4 | 501.6 | 19 3/4 | 501.6 | 9/9 | 15.9 | 9.89 | 31.1 | 73.0 | 33.1 | 30.5 | 0.277 | 18.1 | 460.5 | 23.4 | 595.1 |
| CAAMP3014AMA | A 2 | 25 13/16 | 9229 | 14 3/16 | 360,4 | 12 7/16 | 315.9 | 17 3/16 | 436.6 | 19 3/4 | 501.6 | 3/4 | 19.1 | 54.5 | 24.7 | 0.09 | 27.2 | 26.6 | 676.1 | 14.8 | 376.4 | 23.4 | 595.1 |
| CAAMP3017AMA | A 2 | 25 13/16 | 9 229 | 17 1/2 | 444.5 | 15 3/4 | 400.0 | 17 3/16 | 436.6 | 19 3/4 | 501.6 | 3/4 | 19.1 | 61.0 | 27.7 | 66.5 | 30.2 | 23.6 | 6,663 | 18.1 | 460.5 | 23.4 | 595.1 |
| CAAMP3617AMA | Α 2 | 29 3/4 | 755.6 | 17 1/2 | 444.5 | 15 3/4 | 400.0 | 19 3/4 | 501.6 | 19 3/4 | 501.6 | 3/4 | 19.1 | 66.4 | 30.1 | 73.0 | 33.1 | 30.5 | 775.0 | 18.1 | 460.5 | 23.4 | 595.1 |
| CAAMP3717AMA | A 2 | 25 13/16 | 9.559 | 17 1/2 | 444.5 | 15 3/4 | 400.0 | 17 3/16 | 436.6 | 19 3/4 | 501.6 | 3/4 | 19.1 | 6.65 | 27.2 | 66.5 | 30.2 | 23.6 | 599.9 | 18.1 | 460.5 | 23.4 | 595.1 |
| CAAMP3721AMA | Α | 29 3/4 | 755.6 | 21 | 533.4 | 19 1/4 | 489.0 | 19 3/4 | 501.6 | 19 3/4 | 501.6 | 3/4 | 19.1 | 79.4 | 36.0 | 96.0 | 39.0 | 30.5 | 0.277 | 21.6 | 549.4 | 23.4 | 595.1 |
| CAAMP4221AMA | A 2 | 29 3/4 | 755.6 | 21 | 533.4 | 19 1/4 | 489.0 | 19 3/4 | 501.6 | 19 3/4 | 501.6 | 8/2 | 22.2 | 72.3 | 32.8 | 80.0 | 36.3 | 30.5 | 775.0 | 21.6 | 549.4 | 23.4 | 595.1 |
| CAAMP4321AMA | A 2 | 29 3/4 | 755.6 | 21 | 533.4 | 19 1/4 | 489.0 | 19 3/4 | 501.6 | 19 3/4 | 501.6 | 8/2 | 22.2 | 78.3 | 35.5 | 86.0 | 39.0 | 30.5 | 775.0 | 21.6 | 549.4 | 23.4 | 595.1 |
| CAAMP4821AMA | A | 29 3/4 | 755.6 | 21 | 533.4 | 19 1/4 | 489.0 | 19 3/4 | 501.6 | 19 3/4 | 501.6 | 2/8 | 22.2 | 77.2 | 35.0 | 86.0 | 39.0 | 30.5 | 775.0 | 21.6 | 549.4 | 23.4 | 595.1 |
| CAAMP6024AMA | ٧ | 35 | 0.688 | 24 1/2 | 622.3 | 22 3/4 | 8.773 | 19 3/4 | 501.6 | 19 3/4 | 501.6 | 8/2 | 22.2 | 92.0 | 41.7 | 103.0 | 46.7 | 35.8 | 909.3 | 25.1 | 638.3 | 23.4 | 595.1 |
| CAAMP6121AMA | A | 35 | 0.688 | 21 | 533.4 | 19 1/4 | 489.0 | 19 3/4 | 501.6 | 19 3/4 | 501.6 | 2/8 | 22.2 | 0.68 | 40.4 | 100.0 | 45.4 | 35.8 | 909.3 | 21.6 | 549.4 | 23.4 | 595.1 |
| CAAMP6124AMA | ٧ | 35 | 0.688 | 24 1/2 | 622.3 | 22 3/4 | 577.8 | 19 3/4 | 501.6 | 19 3/4 | 501.6 | 2/8 | 22.2 | 92.0 | 41.7 | 103.0 | 46.7 | 35.8 | 909.3 | 25.1 | 638.3 | 23.4 | 595.1 |



58SU0A Comfort™80% AFUE, Ultra Low NOx, 4-Way Multipoise Gas Furnace



Product Data



EFFICIENCY

- 80% AFUE
- 40K, 60K, 80K, 100K Btu/h capacities
- Ultra-low NOx emissions meets the nitrogen oxides (NOx) emission limit of 14 nanograms/joule for the South Coast Air Quality Management District and San Joaquin Valley Air Pollution Control District in California.

TECHNOLOGY

- · Single-stage gas valve
- Fixed-Speeds, Constant Torque (FCT) tapped ECM blower motor
- · Pre-mix burner with pilot free
- Power HeatTM SiN Ignitor for physical and electrical robustness and durability
- · Variable speed inducer motor
- · Stainless steel, tubular heat exchanger

PERFORMANCE

- · Pre-mix burner with variable speed inducer
- Insulated blower compartment for quiet operation, and inner door for tighter sealing
- · Draft safeguard switch designed to ensure proper furnace venting
- · Dual Fuel compatible

DESIGN AND INSTALLATION

- Approved for installations up to 5,400 feet
- Versatile venting for tight-fit applications
- Factory shipped for natural gas, not convertible to propane
- Four-position furnace: Upflow, Horizontal Right, Horizontal Left, Downflow (with 6 different vent options)
- Cabinet air leakage less than 2.0% at 1.0 in. W.C. and cabinet air leakage less than 1.4% at 0.5 in. W.C. when tested in accordance with ASHRAE standard 193.

A190411







Comfort SERIES



Use of the AHRI Cectified TM Mark indicates a manufacturer's participation in the program. For verification of certification for individual products

A200123

COMFORT™ 80 ULTRA LOW NOx GAS FURNACE

The 58SU0A 4-way Multipoise Gas Furnaces offer features not found in other single-stage 80% gas furnaces. These models meet the nitrogen oxides (NOx) emission limit of 14 nanograms/joule for the South Coast Air Quality Management District and San Joaquin Valley Air Pollution Control District in California.

The gas furnace control system provides fault code storage in the event of power outages. Applications are easy with 4-way multipoise design, 6 different venting options, and a design for easy service access.

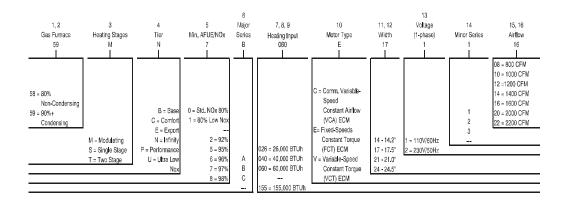
SPECIFICATIONS

| FURNACE SIZ | E | 040E1712 | 060E1716 | 080E2120 | 100E2120 | |
|--|--------------------------------|----------------------------|-----------------------|------------------------|------------------------|--|
| RATINGS AND PERFORMANCE | | | • | | | |
| Input Btuh* | | 40,000 | 60,000 | 80,000 | 100,000 | |
| Output Capacity (Btuh) [†] | | 31,000 | 48,000 | 64,000 | 81,000 | |
| AFUE [†] | | 0.08 | 80.0 | 80.0 | 80.0 | |
| Certified Temperature Rise Range - °F (°C) | | 25 (14)- 55 (30) | 30 (16) - 60 (33) | 25 (14)- 55 (30) | 25 (14)- 55 (30) | |
| External Static Pressure [‡] | Heating | .10 | .12 | .15 | .20 | |
| External Static Pressure* | Cooling | .50 | .50 | .50 | .50 | |
| Airflow Delivery @ ESP Listed Above (CFM | Heating | 695 | 1020 | 1330 | 1885 | |
| , 0 | Cooling | 250-1370 | 940-1545 | 815-1990 | 950-2005 | |
| ELECTRICAL | | | | | | |
| Unit Volts-Hertz-Phase | | | 115- | | | |
| Operating Voltage Range | Min-Max | | 104 | | | |
| Maximum Unit Amps | | 8.2 | 10.6 | 13.3 | 13.3 | |
| Unit Ampacity | | 10.9 | 13.9 | 17.3 | 17.3 | |
| Maximum Wire Length - Measure one way | in Ft (M) | 33 (10) | 26 (8) | 33 (10) | 33 (10) | |
| Minimum Wire Size | | 14 | 14 | 12 | 12 | |
| Maximum Fuse or Ckt Bkr Size (Amps)** | | 15 | 15 | 20 | 20 | |
| Transformer (24v) | | | 40 | | | |
| External Control Power Available | Heating | 12 VA | | | | |
| | Cooling | 35 VA | | | | |
| Air Conditioning Blower Relay | | Standard | | | | |
| CONTROLS | | | | | | |
| Limit Control | | SPST | | | | |
| Heating Blower Control | | Solid-State Time Operation | | | | |
| Gas Connection Size | | | 1/2-in | . NPT | | |
| GAS CONTROLS | | | | | | |
| Gas Valve | Mfr. | | | Rodgers | | |
| (Podundant) | Min. inlet pressure (In. W.C.) | 3.5 Natural Gas | | | | |
| | Max. inlet pressure (In. W.C.) | | | ural Gas | | |
| Ignition Device | | 0.05 | | ce Ignitor | | |
| Factory-installed orifice | | 3.35mm | #18 | #10 | #6 | |
| BLOWER DATA | | 1/0 | 0.44 | 4 | 1 | |
| Direct-Drive Motor HP | | 1/2 | 3/4 | 14.50 | 1 1 50 | |
| Motor Full Load Amps | | 6.40 | 8.80 | 11.50 | 11.50 | |
| Nominal RPM (Speeds) | | 1050 (5) | 1050 (5) | 1050 (5) | 1050 (5) | |
| Blower Wheel Diameter x Width - In. (mm) | | 11 (279) x 8 (203) | 11 (279) x 8 (203) | 11 (279) x 11 (279) | 11 (279) x 11 (279) | |

^{*.} Gas input ratings are certified for elevations to 5,400 ft. (1646 M). In USA, for elevations above 2,000 ft. (610 M), reduce ratings 2 percent for each 1,000 ft. (305 M) above sea level. Refer to National Fuel Gas Code NFPA 54/ANSI Z223.1 Table F.4 or furnace installation instructions.

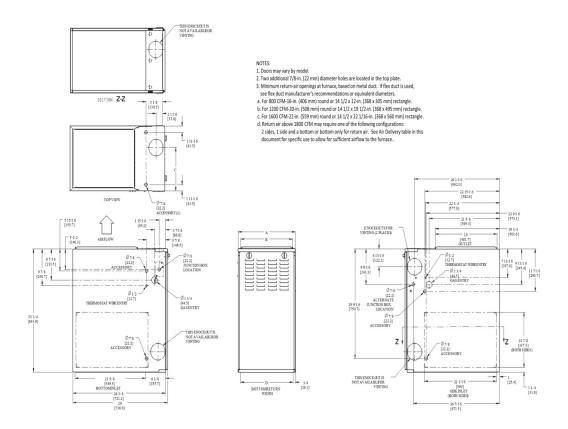
- Capacity in accordance with U.S. Government DOE test procedures.
- DOE Minimum External Static Pressure
- DOE Minimum External State
 **. Time-delay type is recommended.
- ICS Isolated Combustion System

MODEL NUMBER NOMENCLATURE



A200524

DIMENSIONS



NOTE: ALL DIMENSIONS IN INCH (MM)

U.S. ECCN: Not Subject to Regulation (N.S.R.)

SD5507- 4 ULN 80 REV. B

A190257

| FURNACE SIZE | A CABINET WIDTH | B OUTLET WIDTH | C TOP FLUE COLLAR | D BOTTOM INLET WIDTH | VENT CONNECTION SIZE | SHIP WT. LB. (KG) |
|-----------------|--------------------|-----------------------|-------------------------|----------------------------|----------------------------|----------------------|
| 58SU0A040E17-12 | 17-1/2 (445) | 15 - 7/8 (403) | 11 - 9/16 (294) | 16 (406) | 4 (102) | 118 (54) |
| 58SU0A060E17-16 | 17-1/2 (445) | 15-7/8 (403) | 11-9/16 (294) | 16 (406) | 4 (102) | 126 (57) |
| 58SU0A080E21-20 | 21 (533) | 19-3/8 (492) | 13-5/16 (338) | 19-1/2 (495) | 4 (102) | 140 (64) |
| 58SU0A100E21-20 | 21 (533) | 19-3/8 (492) | 13-5/16 (338) | 19-1/2 (495) | 4 (102) | 150 (68) |

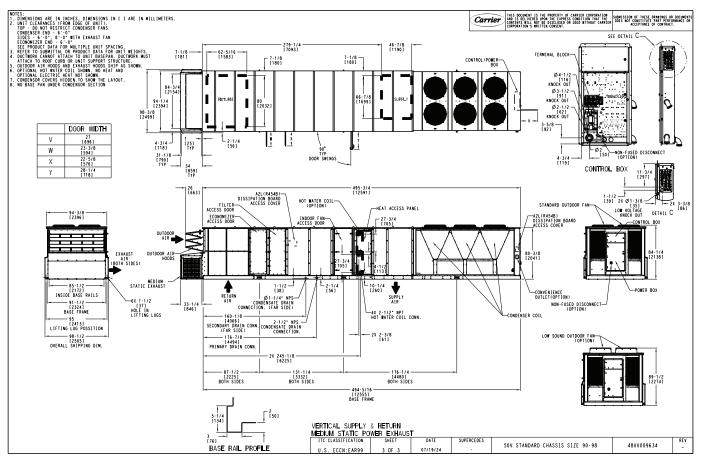


Fig. 33 - 50V 90-100 Ton Standard Chassis (cont)

Submitted by: Ryan Walsh

Project Name: San Bernardino County Health Building- 451E Vandderbilt Way.

Tag Name: Cooling

| Ship | ping Dimensions | |
|---|--------------------------------|--|
| Unit Length | ft and in | 43' 4" |
| Unit Width | ft and in | 8' 2" |
| Unit Height | ft and in | 7' 0" |
| Unit Operating Weight | lb | 10673 |
| Unit Shipping Weight | lb | 10723 |
| ***Shinning weights and dimensions are approxin | nate for shinning numoses. Shi | oning dimensions include OA hoods. See |

^{****}Shipping weights and dimensions are approximate for shipping purposes. Shipping dimensions include Ocertified drawing for operating dimensions.

***Operating and shipping weights and dimensions do not include curbs, accessories, or special order options.

| Performanc | e Informatior | 1 |
|------------------------------------|---------------|-------------------------|
| Part Number | | 50V5AQ90A0-6B8C0B3 |
| Unit Refrigerant | | R454B |
| EER | | 9.7 |
| IEER | | 18.6 |
| Heat Type | | None |
| Supply/Return | | Horizontal / Horizontal |
| Application Type | | Variable Air Volume |
| Voltage | | 460-3-60 |
| Cooling Airflow | CFM | 25000.0 |
| Altitude | ft | 0 |
| Condenser Entering Air Temperature | F | 95.0 |
| Entering Air Temperature Dry Bulb | F | 80.0 |
| Entering Air Temperature Wet Bulb | F | 67.0 |
| Entering Air Enthalpy | BTU/lb | 31.44 |
| Leaving Air Temperature Dry Bulb | °F | 56.0 |
| Leaving Air Temperature Wet Bulb | °F | 54.3 |
| Leaving Air Enthalpy | BTU/lb | 22.72 |
| Gross Cooling Capacity | MBH | 980.21 |
| Gross Sensible Cooling Capacity | MBH | 648.9 |
| Compressor Power | kW | 63.86 |
| Coil Bypass Factor | | 0.047 |
| Refrigerant Charge, Circuit A | lb | 56.0 |
| Refrigerant Charge, Circuit B | lb | 57.0 |

| Electrical Data | |
|---------------------------------------|-----------------|
| Voltage Range | 414 - 506 |
| Compressor #1 Qty | 1 |
| Compressor #1 RLA/*MRC* | *38.9* |
| Compressor #2 Qty | 2 |
| Compressor #2 RLA | 24.7 |
| Compressor #2 LRA | 197 |
| Compressor #3 Qty | 1 |
| Compressor #3 RLA | 39.7 |
| Compressor #3 LRA | 260 |
| Indoor Fan Motor Type | STD |
| Power Supply MCA | 202 |
| Power Supply MOCP (Fuse or HACR) | 225 |
| Outdoor Fan Drive | STD |
| Minimum Non-Fused Disconnect Amperage | 220 |
| Power Exhaust | NO |
| Control Load | 2.4 |
| Outdoor Fan Details (Qty./*MOC* (ea)) | 6 / *3.4* |
| IFM Details (Qty./HP(ea)/*MOC*(ea)) | 6 / 6.4 / *6.8* |
| Unit Capacity | STD |

Note: Factory -installed non-fused disconnect is nominally sized. Check power wire size and disconnecting size.

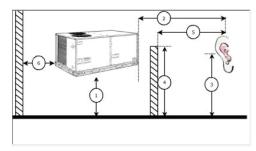
| Supply Fan Information | | | | | | | | | | |
|----------------------------|-------|-------|--|--|--|--|--|--|--|--|
| External Static Pressure | in wg | 1.00 | | | | | | | | |
| 4 inch Filter MERV 13 Loss | in wg | 0.21 | | | | | | | | |
| Economizer Loss | in wg | 0.20 | | | | | | | | |
| Supply Fan RPM | RPM | 1998 | | | | | | | | |
| Supply Fan BHP | BHP | 19.08 | | | | | | | | |
| Selection Static Pressure | in wo | 1 40 | | | | | | | | |

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Applied Rooftops NAO V1.0.4.0 Page 1/3

| | Acoustic Information | | | | | | | | | |
|-------------|----------------------|-------|------|-------|------|--------|-------|-------|-------|--|
| Frequencies | Hz | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | |
| Discharge | Lw | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Inlet | Lw | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Outdoor | Lw | 80.53 | 84.7 | 92.68 | 97.6 | 100.14 | 98.65 | 93.45 | 87.35 | |

Discharge / Inlet Duct Sound Power test data rated in accordance with the AHRI 260 Standard.



| Adva | nced Acoustics Parameters | | |
|---|---------------------------|------|--|
| Unit height above ground | ft | 30.0 | |
| Horizontal distance from unit to receiver | ft | 50.0 | |
| Receiver height above ground | ft | 5.7 | |

| | Detailed Acoustic Information | | | | | | | | | | |
|-----------------------------------|-------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|---------|--|
| Octave Band Center Freq. | Hz | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | Overall | |
| A | Lw | 80.53 | 84.70 | 92.68 | 97.60 | 100.1 | 98.65 | 93.45 | 87.35 | 104.5 | |
| В | LwA | 54.33 | 68.60 | 84.08 | 94.40 | 100.1 | 99.85 | 94.45 | 86.25 | 104.2 | |
| С | Lp | 47.12 | 51.29 | 59.27 | 64.19 | 66.73 | 65.24 | 60.04 | 53.94 | 71.12 | |
| D | LpA | 20.92 | 35.19 | 50.67 | 60.99 | 66.73 | 66.44 | 61.04 | 52.84 | 70.77 | |

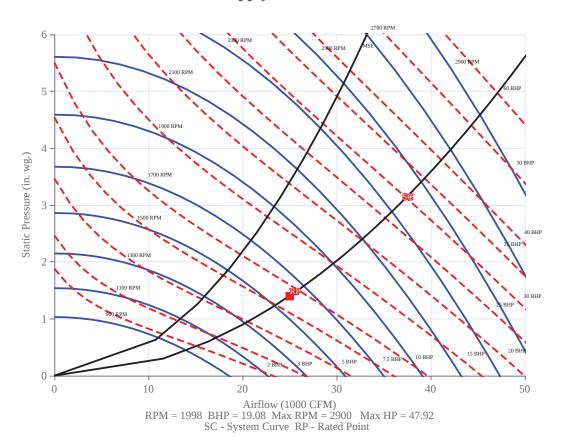
Legend

- A Sound Power Levels at Unit's Acoustic Center
 B A-Weighted Sound Power Levels at Unit's Acoustic Center
 C Sound Pressure Levels at Specific Distance from Unit
 D A-Weighted Sound Pressure Levels at Specific Distance from Unit

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Applied Rooftops NAO V1.0.4.0 Page 2/3 Carrie

Supply Fan Curve



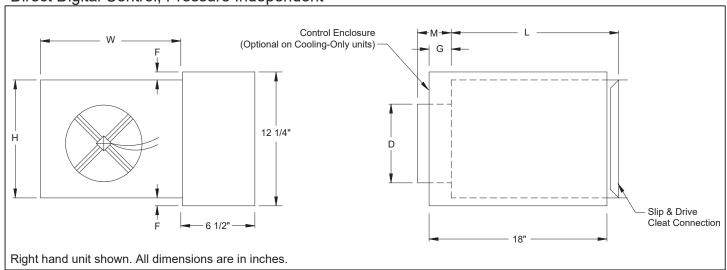
Applied Rooftops NAO V1.0.4.0 Page 3/3



Submittal

DESV

Single Duct Terminal Unit Direct Digital Control, Pressure Independent



| Inlet Size | CFM Range | D | F | G | Н | L | М | W |
|------------|-----------|---|-------------------------------|-------------------------------|--------------------------------|--------------------------------|-------------------------------|----|
| 4 | 0-225 | 3 ⁷ / ₈ | 2 ¹ / ₈ | 7 ³ / ₈ | 8 | 15 ¹ / ₂ | 5 ³ / ₈ | 12 |
| 5 | 0-350 | 4 ⁷ / ₈ | 2 ¹ / ₈ | 7 ³ / ₈ | 8 | 15 ¹ / ₂ | 5 ³ / ₈ | 12 |
| 6 | 0-500 | 5 ⁷ / ₈ | 2 ¹ / ₈ | 7 ³ / ₈ | 8 | 15 ¹ / ₂ | 3 ³ / ₈ | 12 |
| 7 | 0-650 | 6 ⁷ / ₈ | 1 ¹ / ₈ | 7 ³ / ₈ | 10 | 15 ¹ / ₂ | 3 ³ / ₈ | 12 |
| 8 | 0-900 | 7 7/8 | 1 ¹ / ₈ | 7 ³ / ₈ | 10 | 15 ¹ / ₂ | 3 ³ / ₈ | 12 |
| 9 | 0-1050 | 8 ⁷ / ₈ | - | 5 ³ / ₈ | 12 ¹ / ₂ | 15 ¹ / ₂ | 3 ³ / ₈ | 14 |
| 10 | 0-1400 | 9 ⁷ / ₈ | - | 5 ³ / ₈ | 12 ¹ / ₂ | 15 ¹ / ₂ | 3 ³ / ₈ | 14 |
| 12 | 0-2000 | 11 ⁷ / ₈ | - | 5 ³ / ₈ | 15 | 15 ¹ / ₂ | 3 ³ / ₈ | 16 |
| 14 | 0-3000 | 13 ⁷ / ₈ | - | 3 ³ / ₈ | 17 ¹ / ₂ | 15 ¹ / ₂ | 3 ³ / ₈ | 20 |
| 16 | 0-4000 | 15 ⁷ / ₈ | - | 3 ³ / ₈ | 18 | 15 ¹ / ₂ | 3 ³ / ₈ | 24 |
| 24 x 16 | 0-8000 | 23 ⁷ / ₈ x 15 ⁷ / ₈ | 1 ¹ / ₈ | 5 ³ / ₈ | 18 | 15 | 3 ³ / ₈ | 38 |



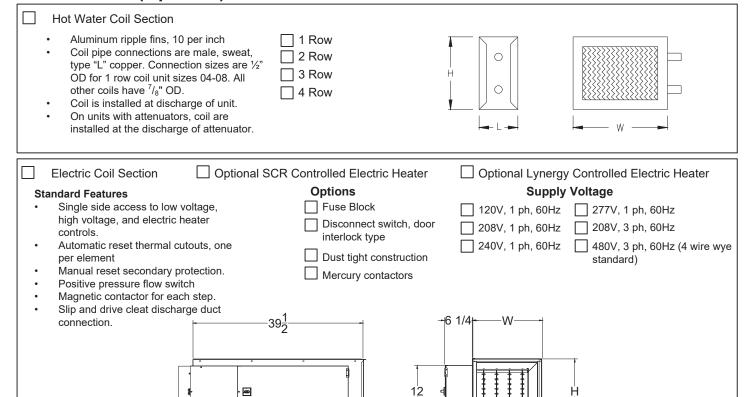
Accessories (Optional)

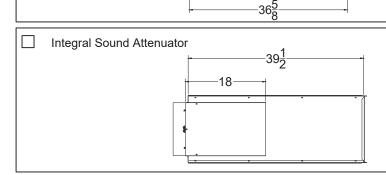
| Checl | ⟨ ✓ if provided. | 1" Fiberglass Liner | UltraLoc Liner | Removable Air Flow Sensor |
|-------|---------------------------|-----------------------|--------------------------------|---------------------------------------|
| | 24 V Control Transformer | 1" EcoShield Liner | ½" EcoShield Liner (Foil Face) | Bottom Access Door |
| | Dust Tight Enclosure Seal | 1" Fibre Free Liner | 1" EcoShield Liner (Foil Face) | OSP & IBC Certification |
| | Fibre Free Liner | Low Leakage | Disconnect Switch | Red List Compliant "Google" Gasketing |
| | ½" EcoShield Liner | Seal/Test/Certify | Hanger Brackets | |
| | 1/3" Fibre Free Liner | SteriLoc Liner | | |

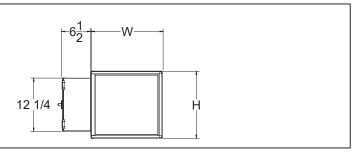
General Description

- Heavy gauge steel housing.
 Mechanically sealed and
 gasketed, leak resistant
 construction. Less than 2% of
 nominal cfm at 1.5" sp wg.
- Dual density internal insulation, treated to resist air erosion.
 Meets requirements of NFPA 90A and UL 181.
- Rectangular discharge opening is designed for slip and drive cleat duct connection.
- Multipoint center averaging inlet velocity sensor.
- Digital control packages can be factory mounted by Titus.
- Choice of right hand or left hand control location.
- Model DESV can be installed horizontally, vertically, or at any angle. Operation is not affected by position.
- Gauge tees for cfm measurement.
- OSHPD Seismic Certification: OSP-0352-10
- Only Titus Alpha digital controls package approved for seismic installation.

Accessories (Optional)







| Inlet Size | Н | W | Wate | r Coil |
|-------------|--------------------------------|----|-------------------------------|-------------------------------|
| Illiet Size | 11 | VV | L (1-2 Row) | L (3-4 Row) |
| 4 | 8 | 12 | 5 | 7 1/4 |
| 5 | 8 | 12 | 5 | 7 1/4 |
| 6 | 8 | 12 | 5 | 7 1/4 |
| 7 | 10 | 12 | 5 | 7 1/4 |
| 8 | 10 | 12 | 5 | 7 1/4 |
| 9 | 12 ¹ / ₂ | 14 | 5 | 7 1/4 |
| 10 | 12 ¹ / ₂ | 14 | 5 | 7 1/4 |
| 12 | 15 | 16 | 5 | 7 1/4 |
| 14 | 17 ¹ / ₂ | 20 | 7 ¹ / ₂ | 9 ³ / ₄ |
| 16 | 18 | 24 | 7 ¹ / ₂ | 9 ³ / ₄ |
| 24 x 16 | 18 | 38 | 5 | 7 1/4 |

The total length of the DESV unit is the summation of the unit length (with or without attenuator) and the length of the optional water coil.





Series e-1510 Centrifugal Pumps





Series e-1510 End Suction Pump System

The Series e-1510 provides the highest overall efficiency in the end-suction market for HVAC and plumbing applications. With the largest Efficiency Island compared to other similar pumps, the e-1510 reduces electricity consumption, improves overall system performance and lowers life cycle costs.

The extensive efficiency profile enables users to maintain significantly higher levels of efficiency over a much wider range of operating conditions. The Series e-1510's dramatic improvement in efficiency is the result of cutting edge computational fluid dynamics (CFD) design technology, extensive hydraulic engineering expertise, and Xylem's comprehensive knowledge of HVAC and plumbing applications. The Bell & Gossett Series e-1510 is available in 26 sizes and a variety of configuration options that enables customization and flexibility to fit a broad range of operating conditions.

Applications

- Chilled Water
- Commercial HVAC
- Hydronic Heating and Cooling Systems
- Cooling Towers and Industrial Uses



Series e-1510 installation



Take away these seven standard features and you'll have a pump like everyone else's.

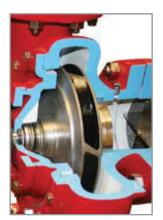


True Back Pullout

A B&G standard in design and construction. Ease in service is assured, while piping and motor remain undisturbed. Extended delays for repairs are virtually eliminated.

Internally Self-Flushing Mechanical Seal

This design is way ahead of its time. This unique seal design is proven in many years of service. It requires no special external flushing provisions, since the design provides for constant efficient flushing action internally. This standard feature ensures maximum seal face lubrication, heat dissipation and debris removal without vulnerable, external flush tubing. The internal flushing action passes two and a half to three times the flow over the seal faces – compared to a few GPM for conventional, stuffing-box designed pumps.



Stainless Steel Impellers

The e-1510's optimized hydraulic designs offer large efficiency "islands" maximizing operating efficiency over wide ranges of performance. e-1510 impellers are precision cast stainless steel providing extremely smooth surface finishes and tight dimensional tolerances to further yield higher efficiencies. Stainless

steel impellers are also more resilient than bronze impellers, providing owners with longer lasting maximum efficiency levels and applications over a wider range of fluids.





Solid-Foot Mounted Volute

All Series e-1510 pumps are provided as standard with an integrally cast volute foot located directly beneath the pump volute. This integrally cast foot ensures that the alignment between the volute and motor assembly is maintained. Without solid

support beneath the volute, the piping weight alone will cause distortion which can lead to premature failure of the bearings, shaft and mechanical seal. This feature is equally important on hot water applications. The Series e-1510 volute foot provides a solid foundation and eliminates the deflections which would otherwise exist within an unsupported overhung volute during the normal thermal expansion of the system piping against the volute.



Center Drop-Out Spacer Coupling

Unlike conventional jaw type or rigid style couplings, a center drop-out spacer coupling allows removal of the bearing frame and

rotating element without disturbing the pump end pipe alignment or motor electrical connections.



OSHA-Compliant Coupling Guard

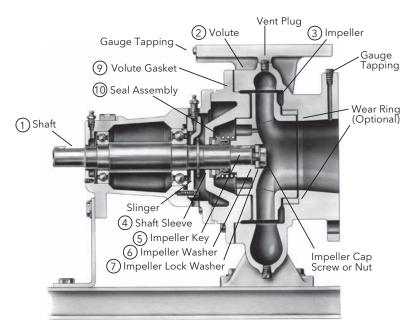
The coupler guard complies with OSHA 1910.219. The guard offers increased protection against potential injuries and is standard on

all e-1510 pumps. The guards include slotted viewing windows for easy inspection.

Heavy Duty, Rugged Baseplate

The Bell & Gossett fabricated heavy duty baseplate is supplied as standard on every Series e-1510 pump. Unlike rolled steel and "C" channel baseplates, the Series e-1510 baseplate provides a heavy duty saddle assembly, full seam welds, closed baseplate ends and an open top to provide ease of access for proper equipment grouting.

Materials of Construction



Standard Configuration

| Description | SM, LG, & XL Bearing Frames | ES Bearing Frame |
|------------------------|--|---|
| 1 Shaft | ASTM 108 Grade 1144 | ASTM 108 Grade 1144 |
| 2 Volute | Cast Iron ASTM A48 Class 30B or Ductile Iron | Cast Iron ASTM A48 Class 30B |
| 3 Impeller | ASTM A743 Grade CF8 - 304 Stainless Steel | ASTM A743 Grade CF8 - 304 Stainless Steel |
| 4 Shaft Sleeve | ASTM 312 Grade TP304 - 304 Stainless Steel | ASTM 312 Grade TP304 - 304 Stainless Steel |
| 5 Impeller Key | #304 Stainless Steel | NA |
| 6 Impeller Washer | Steel | NA |
| 7 Impeller Lock Washer | #304 Stainless Steel (18-8 XL FRM) | NA |
| 8 Impeller Cap Screw | #304 Stainless Steel | NA |
| 8 Impeller Nut | Impeller Nut NA | |
| 9 Volute Gasket | Cellulose Fiber | Cellulose Fiber |
| 10 Seal Assembly | Reference Seal Data Tables | Reference Seal Data Tables |

Pump Options

- Stainless Steel Volute Wear Ring
- Galvanized Steel Drip Pan
- Stainless Steel Shaft
- Rexnord Omega Spacer Coupling
- Falk T31 Spacer Coupling
- External Flush Line

- Stuffing Box Configuration
- Epoxy Coated Internal Cast Iron Components
- Special Impeller Balancing (ISO 1940 G2.5 or G1.0)
- Certified Performance Tests (Per HI Standard 14.6)
- 250 PSI Working Pressure
- ITSC or IT Control

Seal Assemblies

Standard Mechanical Configuration

| Standard Mechanical Seal | SM, LG, & XL Bearing Frames | ES Bearing Frame |
|--------------------------|-----------------------------|------------------|
| Temperature Range | -20 to 225°F | -20 to 225°F |
| Maximum Pressure | 175 PSI | 175 PSI |
| pH Limitations | 7.0 - 9.0 | 7.0 - 9.0 |
| Elastomer | Buna | Buna |
| Rotating Face | Carbon | Carbon |
| Stationary Face | Ceramic | Silicon Carbide |
| Hardware | Stainless Steel / Brass | Stainless Steel |

| Mechanical Seal Options | SM, LG, & XL Bearing Frames | | | | | | |
|--------------------------------|------------------------------------|------------------------------------|------------------------------------|--|--|--|--|
| Temperature Range | -20 to 250°F | -10 to 225°F | -20 to 250°F | | | | |
| Maximum Pressure | 175 PSI | 175 PSI | 175 PSI | | | | |
| pH Limitations | 7.0 - 11.0 | 7.0 - 9.0 | 7.0 - 12.5 | | | | |
| Elastomer | EPR (Ethylene Propylene Rubber) | FKM (Viton™ or Fluoroelastomer) | EPR (Ethylene Propylene Rubber) | | | | |
| Rotating Face | Carbon | Carbon | Silicon Carbide | | | | |
| Stationary Face | Tungsten Carbide | Ceramic | Silicon Carbide | | | | |
| Hardware | Stainless Steel / Brass | Stainless Steel | Stainless Steel | | | | |

| Mechanical Seal Options | ES Bearing Frame | | | |
|--------------------------------|------------------------------------|------------------------------------|------------------------------------|--|
| Temperature Range | -20 to 250°F | -10 to 225°F | -20 to 250°F | |
| Maximum Pressure | 175 PSI | 175 PSI | 175 PSI | |
| pH Limitations | 7.0 - 11.0 | 7.0 - 9.0 | 7.0 - 12.5 | |
| Elastomer | EPR (Ethylene Propylene Rubber) | FKM (Viton™ or Fluoroelastomer) | EPR (Ethylene Propylene Rubber) | |
| Rotating Face | Silicon Carbide | Carbon | Silicon Carbide | |
| Stationary Face | Tungsten Carbide | Silicon Carbide | Silicon Carbide | |
| Hardware | Stainless Steel / Brass | Stainless Steel | Stainless Steel | |

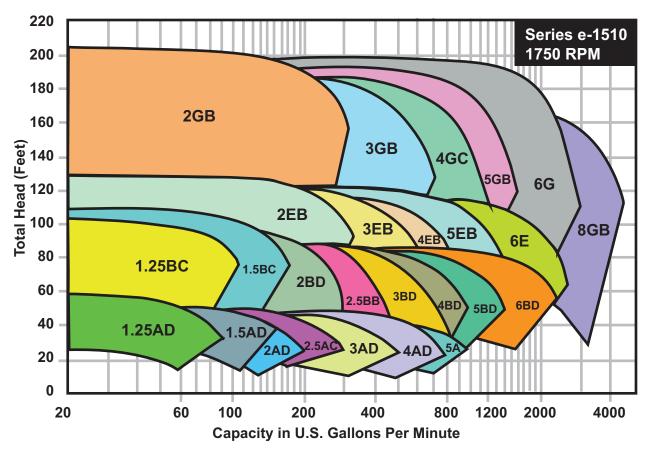
Stuffing Box Configuration

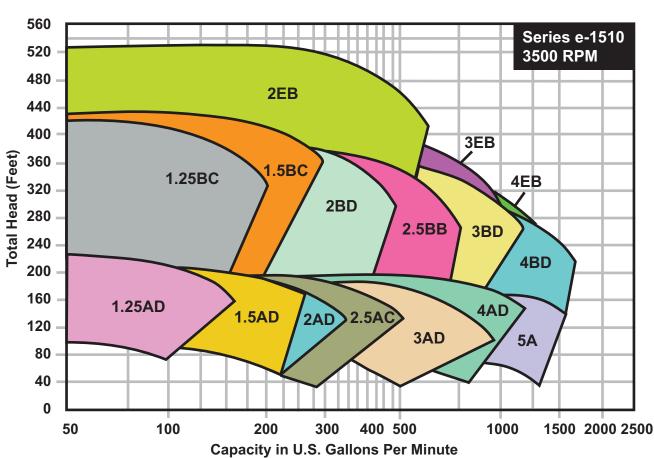
| Mechanical Seal | SM, LG, & XL Bearing Frames |
|-------------------|---------------------------------|
| Temperature Range | -20 to 250°F* |
| Maximum Pressure | 175 PSI (Optional 250 PSI) |
| pH Limitations | 7.0 - 11.0 |
| Elastomer | EPR (Ethylene Propylene Rubber) |
| Rotating Face | Tungsten Carbide |
| Stationary Face | Carbon |
| Hardware | Stainless Steel |

^{*} For operating temperatures above 250°F a cooled flush is required and is recommended for temperatures above 225°F for optimum seal life. On closed systems cooling is accomplished by inserting a small heat exchanger in the flush line to cool the seal flushing fluid.

Flush-line Filters and Sediment Separators are available on special request.

Series e-1510 Performance Curves





The Bell & Gossett End Suction Pump System

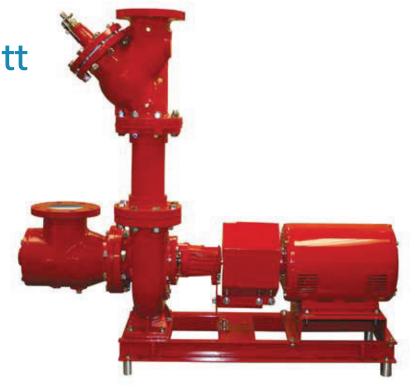
Consists of:

B&G Series e-1510 Pump B&G Triple Duty® Valve B&G Suction Diffuser Plus



Triple Duty Valve

- Lowest Pressure Drop
- ASHRAE 90.1 Energy Efficient Design
- Three Valves in one!
 - Nonslam drip-tight check valve
 - Positive shutoff valve
 - Calibrated system balance valve
- EPDM Disc Soft Seat Design
- Repack Under Pressure
- Brass Seat & Bronze Disc
- Stainless Steel Stem
- Multi-turn Valve (8-9 turns) vs 1/4 turn range of control
- Available connections Threaded Flanged Grooved
- ESP-Systemwize Selection





Suction Diffuser Plus

- Flow Cone (patent pending) eliminates recirculation zones, directing flow toward the pump and improving flow conditioning
- Full length straightening vanes assure uniform flow pattern for pump inlet
- Large diameter orifice cylinder prevents debris from entering pump suction while maintaining low pressure drop.
- Fine mesh throwaway start-up strainer assures cleaner, more trouble free system
- Optional pressure/temperature ports permit checking of system conditions and verification of start-up strainer presence
- Eliminates the need for separate long radius elbows or reducing elbows
- Common installation dimensions compared to previous B&G designs making retrofits easy.
- Easily removable end cap with reusable o-ring
- Plug/blow down connection permits routine maintenance

Typical Specification for Series e-1510 Base Mounted, Flexible Coupled, End-Suction Pumps

Furnish and install pumps with performance characteristics as shown on plans. Pumps shall be base mounted, single stage, end suction design with a foot mounted volute to allow removal and service of the entire rotating assembly without disturbing the pump piping, electrical motor connections or pump to motor alignment.

Pump volute shall be Class 30 cast iron or ductile iron with integrally-cast pedestal support feet. The impeller shall be a cast stainless steel enclosed type, balanced to ISO 1940-1 balance grade G6.3 and secured to the shaft by a locking capscrew or nut.

The liquid cavity shall be sealed off at the pump shaft by an internally-flushed mechanical seal with ceramic seal seat and carbon seal ring, suitable for continuous operation at 225°F (107°C). A replaceable stainless steel shaft sleeve shall completely cover the wetted area under the seal.

Pump shall be rated for minimum of 175 psi (12 bar) working pressure. Volute shall have gauge tappings at the suction and discharge nozzles and vent and drain tappings at the top and bottom.

The pump(s) vibration limits shall conform to Hydraulic Institute ANSI/HI 9.6.4-2009 for recommend acceptable unfiltered field vibration limits (as measured per ANSI/HI 9.6.4 (2016) Figure 9.6.4.2.3.1) for pumps with rolling contact bearings.

Baseplate shall be of structural steel or fabricated steel channel with fully enclosed sides and ends, and securely welded cross members. Grouting area shall be fully open. The combined pump and motor baseplate shall be sufficiently stiff as to limit the susceptibility of vibration. The minimum baseplate stiffness shall conform to ANSI/HI 1.3.8.2.1-2013 for grouted Horizontal Baseplate Design standards.

A flexible type, center drop-out design coupling, capable of absorbing torsional vibration, shall be employed between the pump and motor. Pumps for variable speed application shall be provided with a suitable coupling sleeve. The coupling shall be shielded by a rated OSHA 1910.219 compliant coupling guard and contain viewing windows for inspection of the coupling.

Motor shall meet NEMA and EISA 2014 (where applicable) specifications and shall be of the size, voltage and enclosure called for on the plans. Pump and motor shall be factory aligned, and shall be realigned by the contractor per factory recommendations after installation.

The pump(s) selected shall conform to ANSI/HI 9.6.3 (2017) standards for Preferred Operating Region (POR) unless otherwise approved by the engineer.

Each pump shall be factory hydrostatically tested per Hydraulic Institute standards. It shall then be thoroughly cleaned and painted with at least one coat of high grade paint prior to shipment.

The pump(s) shall be manufactured, assembled and tested in an ISO 9001 approved facility.

Series e-1510 pumps are manufactured by Bell & Gossett, a Xylem, Inc. brand.

We value your feedback. Please take our 3 question survey at **bellgossett.com/survey** to let us know how we are doing.



Xylem Inc. 8200 N. Austin Avenue Morton Grove, Illinois 60053 Phone: (847) 966-3700 Fax: (847) 965-8379 www.xylem.com/bellgossett

set of our company's internally defined sustainability standards

<u>Raypak</u>





(POWERED BY KOR™)

More heat in less space.

1 MMBTUH – 4 MMBTUH

H 94.5-95.7% Efficiency















Maximum Performance

- 316L stainless steel KŌR heat exchanger for high-efficiency heating and maximum corrosion resistance (patent pending)
- Integrated flow meter for continuous monitoring and optimization with the Dynamic Protection controls algorithm
- Engineered for reliable indoor/outdoor performance and more uptime
- HO₂T Track and Trim continuously monitors and controls the oxygen concentrations in boiler flue gas and automatically adjusts for fuel and airflow to maintain optimum combustion



Applicable for hydronic heating in hospitals, schools, multi-family housing, and more.





Installation Versatility

- 4 Thru The Door: the only 4 MMBTUH condensing boiler on the market that fits through the door with ease for convenient installation
- Forklift and pallet jack accessible base for easy transportation
- Multiple vent material options: PVC, CPVC, polypropylene, or stainless steel
- High elevation models available up to 10,000 ft.
- Conforms to Buy American Act



Easy to Service

- Improved cabinet design with multiple smaller, lighter, easier-tohandle jacket panels for convenient access to key components
- Ultra-short height provides the best top access for servicing in compact boiler rooms
- Simple gas train design: a turnkey solution for easy commissioning and servicing



Intelligent Controls

- VERSA IC controls with LCD touchscreen display
- Raymote access
- Control the uncontrolled with Dynamic Protection for more uptime and longer life

Optional Features

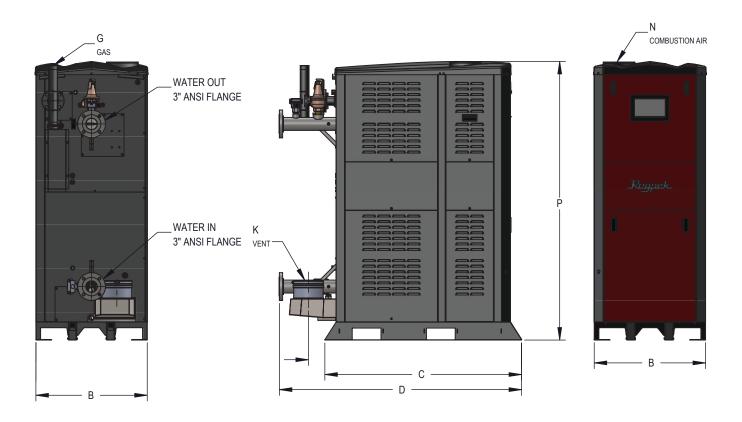
- ✓ Variable or fixed speed pump
- ✓ Motorized isolation valve
- ☑ BACnet gateway
- ✓ Condensate treatment kit
- ✓ HO₂T Track & HO₂T Track and Trim
- ✓ CSD-1 package
- ✓ High elevation models
- ✓ Standard Stock Products





XVers + KŌR - Type H Models 1007 - 4007

| | мвти | J/h (kW) | Minimum | | AHRI | | | Dimensio | ns - Inche | s (mm) | | |
|-------|-------------------|-------------------|---------------------|--------------|---|-------------|--------------------|-----------------------|------------|-------------|-------------|--------|
| Model | Input | Output | BTU/h (kW) Input | Turn Down | Thermal / Combustion Efficiency (%) | B Width | C Base Depth | D Overall Depth | G NPT | K Flue Ø | N C/A Ø | Р |
| 1007 | 999 (293.1) | 952 (279.0) | 100,000 (29.3) | 10:1 | 95.3 / 95.5 | 24 (610) | 44 (1118) | 56.3 (1430) | | 6 (152) | 6 (152) | |
| 1257 | 1,250 (366.3) | 1,196 (350.5) | 104,000 (30.5) | 12:1 | 95.7 / 96.0 | 26 (660) | 48 (1219) | 60.3 (1531) | 1-1/4 | 8 (203) | 8 (203) | 71.6 |
| 1507 | 1,500 (439.6) | 1,427 (418.2) | 100,000 (29.3) | 15:1 | 95.1 / 95.3 | 26 (660) | 48 (1219) | 60.3 (1531) | (31.75) | 8 (203) | 8 (203) | (1818) |
| 2007 | 1,999 (586.0) | 1,903 (557.8) | 200,000 (58.6) | 10:1 | 95.2 / 95.4 | 30 (762) | 53 (1346) | 65.3 (1659) | | 8 (203) | 8 (203) | |
| 2507 | 2,499 (732.3) | 2,374 (695.7) | 300,000 (88.0) | 8:1 | 95.0 / 96.2 | 34 (864) | 58 (1473) | 70.3 (1786) | | 10 (254) | 10 (254) | |
| 3007 | 3,000 (879.2) | 2,862 (838.7) | 300,000 (88.0) | 10:1 | 95.0 / 95.4 | 34 (864) | 58 (1473) | 70.3 (1786) | 2.0 | 10 (254) | 10 (254) | 74.6 |
| 3507 | 3,500 (1025.7) | 3,329 (975.6) | 400,000 (117.2) | 9:1 | 95.0 / 95.1 | 34 (864) | 58 (1473) | 70.4 (1788) | (51.0) | 12 (305) | 12 (305) | (1894) |
| 4007 | 4,000 (1172.3) | 3,788 (1110.1) | 400,000 (117.2) | 10:1 | 94.5 / 94.7 | 34 (864) | 58 (1473) | 70.4 (1788) | | 12 (305) | 12 (305) | |



Performance Report

Project Name: San Bernardino County High Desert Gov

> Tag Name: 100 Ton

Submitted by: Ryan Walsh

Project Name: San Bernardino 15900 Smoke Tree

Tag Name: 100 Ton

| Shij | pping Dimensions | |
|---|------------------|--------|
| Unit Length | ft and in | 43' 4" |
| Unit Width | ft and in | 8' 2" |
| Unit Height | ft and in | 7' 0" |
| Unit Operating Weight | lb | 10788 |
| Unit Shipping Weight | lb | 10838 |
| www.Chinainananinahananinananinananinananin | | |

^{****}Shipping weights and dimensions are approximate for shipping purposes. Shipping dimensions include OA hoods. See certified drawing for operating dimensions.

** Operating and shipping weights and dimensions do not include curbs, accessories, or special order options.

| Performance Information | | | | | | | |
|------------------------------------|--------|---------------------|--|--|--|--|--|
| Part Number | | 50V3HQ98A1-6B8C2A3 | | | | | |
| Unit Refrigerant | | R454B | | | | | |
| EER | | 9.7 | | | | | |
| IEER | | 16.7 | | | | | |
| Heat Type | | Hot Water Coil | | | | | |
| Supply/Return | | Vertical / Vertical | | | | | |
| Application Type | | Variable Air Volume | | | | | |
| Voltage | | 460-3-60 | | | | | |
| Cooling Airflow | CFM | 37000.0 | | | | | |
| Altitude | ft | 0 | | | | | |
| Condenser Entering Air Temperature | F | 95.0 | | | | | |
| Entering Air Temperature Dry Bulb | F | 80.0 | | | | | |
| Entering Air Temperature Wet Bulb | F | 67.0 | | | | | |
| Entering Air Enthalpy | BTU/lb | 31.44 | | | | | |
| Leaving Air Temperature Dry Bulb | °F | 58.5 | | | | | |
| Leaving Air Temperature Wet Bulb | °F | 57.5 | | | | | |
| Leaving Air Enthalpy | BTU/lb | 24.69 | | | | | |
| Gross Cooling Capacity | MBH | 1123.31 | | | | | |
| Gross Sensible Cooling Capacity | MBH | 859.0 | | | | | |
| Compressor Power | kW | 79.792 | | | | | |
| Coil Bypass Factor | | 0.077 | | | | | |
| Refrigerant Charge, Circuit A | lb | 58.0 | | | | | |
| Refrigerant Charge, Circuit B | lb | 59.0 | | | | | |

| Hot Water Heating Data | | | | | | | |
|--|-------|-------------|--|--|--|--|--|
| Heating Airflow | CFM | 37000.0 | | | | | |
| Fluid | | Fresh Water | | | | | |
| Heating Entering Air Temperature | F | 70.0 | | | | | |
| Entering Fluid Temperature | F | 180.0 | | | | | |
| Leaving Air Temperature | °F | 116.9 | | | | | |
| Leaving Fluid Temperature | °F | 118.0 | | | | | |
| Fluid GPM | gpm | 60.0 | | | | | |
| Fluid Temperature Drop | °F | 62.0 | | | | | |
| Fluid Pressure Drop (Does not include Header PD) | ft wg | 4.64 | | | | | |

| Electrical Data | | | | | |
|---------------------------------------|----------------|--|--|--|--|
| Voltage Range | 414 - 506 | | | | |
| Compressor #1 Qty | 1 | | | | |
| Compressor #1 RLA/*MRC* | *38.9* | | | | |
| Compressor #2 Qty | 3 | | | | |
| Compressor #2 RLA | 29.5 | | | | |
| Compressor #2 LRA | 227 | | | | |
| Indoor Fan Motor Type | MED | | | | |
| Power Supply MCA | 220 | | | | |
| Power Supply MOCP (Fuse or HACR) | 250 | | | | |
| Outdoor Fan Drive | STD | | | | |
| Minimum Non-Fused Disconnect Amperage | 242 | | | | |
| Power Exhaust | NO | | | | |
| Control Load | 2.4 | | | | |
| Outdoor Fan Details (Qty./*MOC* (ea)) | 6 / *3.4* | | | | |
| IFM Details (Qty./HP(ea)/*MOC*(ea)) | 6 / 9.4 / *10* | | | | |
| Unit Capacity | STD | | | | |
| Electrical Convenience Outlet | None | | | | |

Note: Factory -installed non-fused disconnect is nominally sized. Check power wire size and disconnecting size.

| Supply Fan Information | | | | | | | |
|----------------------------|-------|-------|--|--|--|--|--|
| External Static Pressure | in wg | 1.00 | | | | | |
| Hot Water Coil Loss | in wg | 0.67 | | | | | |
| 4 inch Filter MERV 13 Loss | in wg | 0.37 | | | | | |
| Economizer Loss | in wg | 0.36 | | | | | |
| Supply Fan RPM | RPM | 2529 | | | | | |
| Supply Fan BHP | BHP | 36.68 | | | | | |
| Selection Static Pressure | in wg | 2.80 | | | | | |

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Applied Rooftops NAO V1.0.4.0 Page 1/3



Performance Report

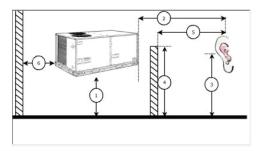
Project Name: San Bernardino County High Desert Gov

Tag Name: 100 Ton

Submitted by: Ryan Walsh

| | Acoustic Information | | | | | | | | |
|-------------|---|-------|------|-------|-------|--------|-------|-------|-------|
| Frequencies | Frequencies Hz 63 125 250 500 1000 2000 4000 8000 | | | | | | | | 8000 |
| Discharge | Lw | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Inlet | Lw | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Outdoor | Lw | 80.54 | 84.7 | 92.68 | 97.69 | 100.15 | 98.68 | 93.48 | 87.45 |

Discharge / Inlet Duct Sound Power test data rated in accordance with the AHRI 260 Standard.



| Advanced Acoustics Parameters | | | | | | | | | |
|---|----|------|--|--|--|--|--|--|--|
| Unit height above ground | ft | 30.0 | | | | | | | |
| Horizontal distance from unit to receiver | ft | 50.0 | | | | | | | |
| Receiver height above ground | ft | 5.7 | | | | | | | |

| Detailed Acoustic Information | | | | | | | | | | | |
|-----------------------------------|-----|-------|-------|-------|-------|-------|-------|-------|-------|---------|--|
| Octave Band Center Freq. | Hz | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | Overall | |
| A | Lw | 80.54 | 84.70 | 92.68 | 97.69 | 100.2 | 98.68 | 93.48 | 87.45 | 104.6 | |
| В | LwA | 54.34 | 68.60 | 84.08 | 94.49 | 100.2 | 99.88 | 94.48 | 86.35 | 104.2 | |
| С | Lp | 47.13 | 51.29 | 59.27 | 64.28 | 66.74 | 65.27 | 60.07 | 54.04 | 71.16 | |
| D | LpA | 20.93 | 35.19 | 50.67 | 61.08 | 66.74 | 66.47 | 61.07 | 52.94 | 70.80 | |

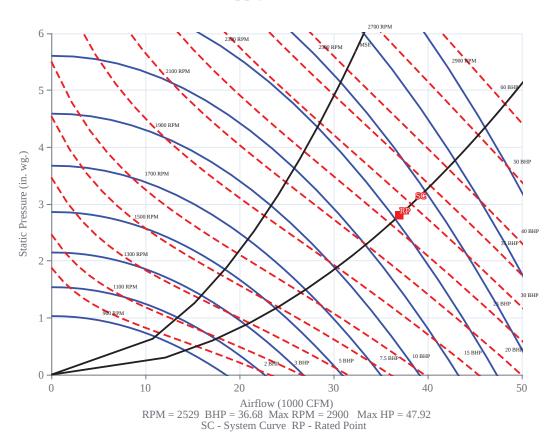
- A Sound Power Levels at Unit's Acoustic Center
 B A-Weighted Sound Power Levels at Unit's Acoustic Center
 C Sound Pressure Levels at Specific Distance from Unit
 D A-Weighted Sound Pressure Levels at Specific Distance from Unit

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Applied Rooftops NAO V1.0.4.0 Page 2/3 Submitted by: Ryan Walsh

Tag Name: 100 Ton

Supply Fan Curve



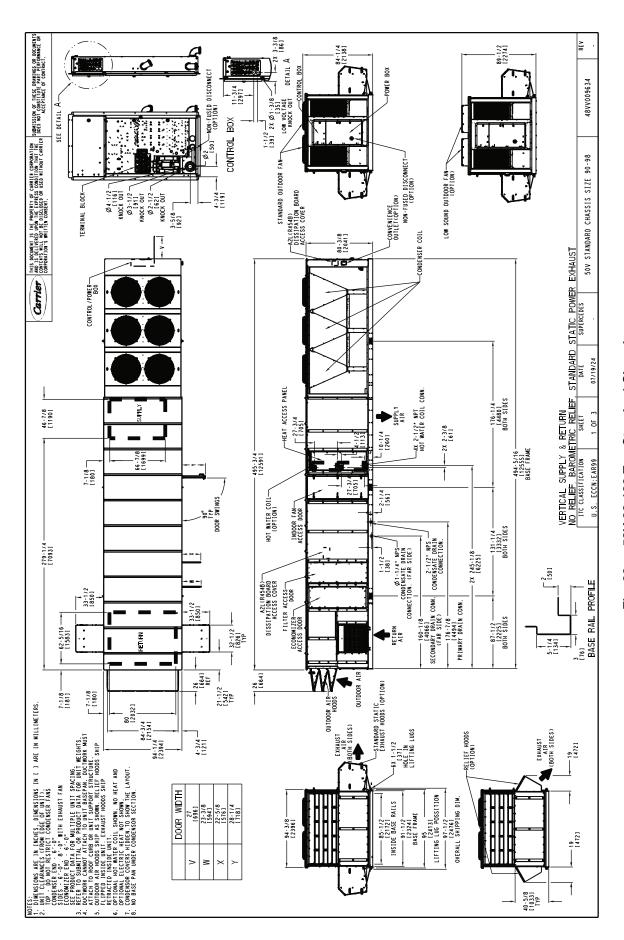


Fig. 33 - 50V 90-100 Ton Standard Chassis

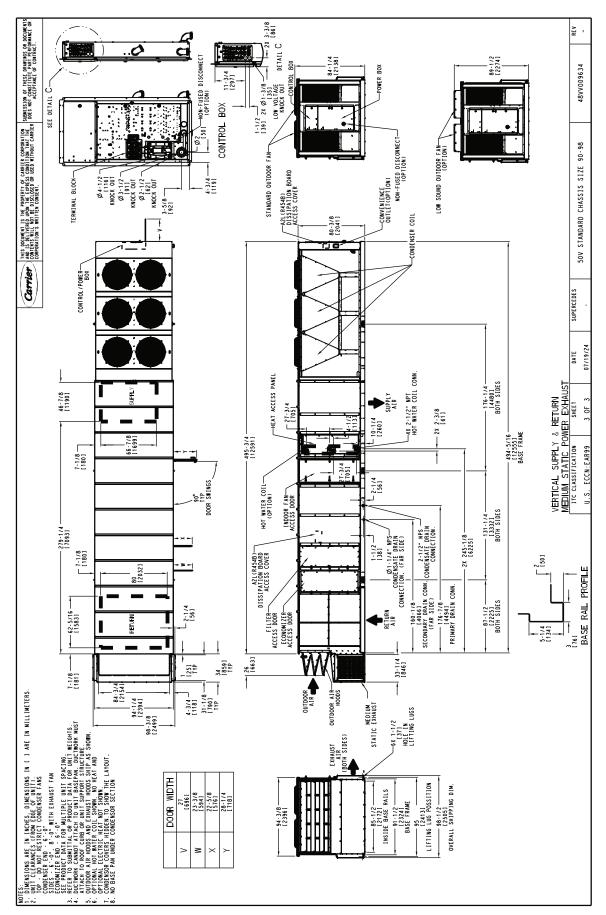


Fig. 33 - 50V 90-100 Ton Standard Chassis (cont)





Series e-1510 Centrifugal Pumps





Series e-1510 End Suction Pump System

The Series e-1510 provides the highest overall efficiency in the end-suction market for HVAC and plumbing applications. With the largest Efficiency Island compared to other similar pumps, the e-1510 reduces electricity consumption, improves overall system performance and lowers life cycle costs.

The extensive efficiency profile enables users to maintain significantly higher levels of efficiency over a much wider range of operating conditions. The Series e-1510's dramatic improvement in efficiency is the result of cutting edge computational fluid dynamics (CFD) design technology, extensive hydraulic engineering expertise, and Xylem's comprehensive knowledge of HVAC and plumbing applications. The Bell & Gossett Series e-1510 is available in 26 sizes and a variety of configuration options that enables customization and flexibility to fit a broad range of operating conditions.

Applications

- Chilled Water
- Commercial HVAC
- Hydronic Heating and Cooling Systems
- Cooling Towers and Industrial Uses



Series e-1510 installation



Take away these seven standard features and you'll have a pump like everyone else's.

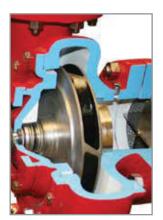


True Back Pullout

A B&G standard in design and construction. Ease in service is assured, while piping and motor remain undisturbed. Extended delays for repairs are virtually eliminated.

Internally Self-Flushing Mechanical Seal

This design is way ahead of its time. This unique seal design is proven in many years of service. It requires no special external flushing provisions, since the design provides for constant efficient flushing action internally. This standard feature ensures maximum seal face lubrication, heat dissipation and debris removal without vulnerable, external flush tubing. The internal flushing action passes two and a half to three times the flow over the seal faces – compared to a few GPM for conventional, stuffing-box designed pumps.



Stainless Steel Impellers

The e-1510's optimized hydraulic designs offer large efficiency "islands" maximizing operating efficiency over wide ranges of performance. e-1510 impellers are precision cast stainless steel providing extremely smooth surface finishes and tight dimensional tolerances to further yield higher efficiencies. Stainless

steel impellers are also more resilient than bronze impellers, providing owners with longer lasting maximum efficiency levels and applications over a wider range of fluids.





Solid-Foot Mounted Volute

All Series e-1510 pumps are provided as standard with an integrally cast volute foot located directly beneath the pump volute. This integrally cast foot ensures that the alignment between the volute and motor assembly is maintained. Without solid

support beneath the volute, the piping weight alone will cause distortion which can lead to premature failure of the bearings, shaft and mechanical seal. This feature is equally important on hot water applications. The Series e-1510 volute foot provides a solid foundation and eliminates the deflections which would otherwise exist within an unsupported overhung volute during the normal thermal expansion of the system piping against the volute.



Center Drop-Out Spacer Coupling

Unlike conventional jaw type or rigid style couplings, a center drop-out spacer coupling allows removal of the bearing frame and

rotating element without disturbing the pump end pipe alignment or motor electrical connections.



OSHA-Compliant Coupling Guard

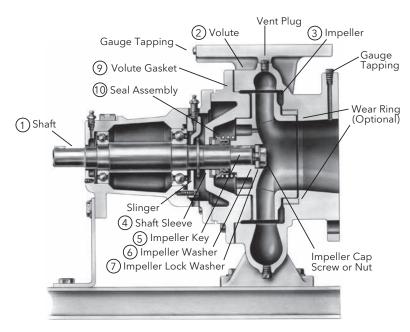
The coupler guard complies with OSHA 1910.219. The guard offers increased protection against potential injuries and is standard on

all e-1510 pumps. The guards include slotted viewing windows for easy inspection.

Heavy Duty, Rugged Baseplate

The Bell & Gossett fabricated heavy duty baseplate is supplied as standard on every Series e-1510 pump. Unlike rolled steel and "C" channel baseplates, the Series e-1510 baseplate provides a heavy duty saddle assembly, full seam welds, closed baseplate ends and an open top to provide ease of access for proper equipment grouting.

Materials of Construction



Standard Configuration

| Description | SM, LG, & XL Bearing Frames | ES Bearing Frame |
|------------------------|--|---|
| 1 Shaft | ASTM 108 Grade 1144 | ASTM 108 Grade 1144 |
| 2 Volute | Cast Iron ASTM A48 Class 30B or Ductile Iron | Cast Iron ASTM A48 Class 30B |
| 3 Impeller | ASTM A743 Grade CF8 - 304 Stainless Steel | ASTM A743 Grade CF8 - 304 Stainless Steel |
| 4 Shaft Sleeve | ASTM 312 Grade TP304 - 304 Stainless Steel | ASTM 312 Grade TP304 - 304 Stainless Steel |
| 5 Impeller Key | #304 Stainless Steel | NA |
| 6 Impeller Washer | Steel | NA |
| 7 Impeller Lock Washer | #304 Stainless Steel (18-8 XL FRM) | NA |
| 8 Impeller Cap Screw | #304 Stainless Steel | NA |
| 8 Impeller Nut | NA | 316 Stainless Steel |
| 9 Volute Gasket | Cellulose Fiber | Cellulose Fiber |
| 10 Seal Assembly | Reference Seal Data Tables | Reference Seal Data Tables |

Pump Options

- Stainless Steel Volute Wear Ring
- Galvanized Steel Drip Pan
- Stainless Steel Shaft
- Rexnord Omega Spacer Coupling
- Falk T31 Spacer Coupling
- External Flush Line

- Stuffing Box Configuration
- Epoxy Coated Internal Cast Iron Components
- Special Impeller Balancing (ISO 1940 G2.5 or G1.0)
- Certified Performance Tests (Per HI Standard 14.6)
- 250 PSI Working Pressure
- ITSC or IT Control

Seal Assemblies

Standard Mechanical Configuration

| Standard Mechanical Seal | SM, LG, & XL Bearing Frames | ES Bearing Frame |
|--------------------------|-----------------------------|------------------|
| Temperature Range | -20 to 225°F | -20 to 225°F |
| Maximum Pressure | 175 PSI | 175 PSI |
| pH Limitations | 7.0 - 9.0 | 7.0 - 9.0 |
| Elastomer | Buna | Buna |
| Rotating Face | Carbon | Carbon |
| Stationary Face | Ceramic | Silicon Carbide |
| Hardware | Stainless Steel / Brass | Stainless Steel |

| Mechanical Seal Options | SM, LG, & XL Bearing Frames | | | | | | |
|--------------------------------|------------------------------------|------------------------------------|------------------------------------|--|--|--|--|
| Temperature Range | -20 to 250°F | -10 to 225°F | -20 to 250°F | | | | |
| Maximum Pressure | 175 PSI | 175 PSI | 175 PSI | | | | |
| pH Limitations | 7.0 - 11.0 | 7.0 - 9.0 | 7.0 - 12.5 | | | | |
| Elastomer | EPR (Ethylene Propylene Rubber) | FKM (Viton™ or Fluoroelastomer) | EPR (Ethylene Propylene Rubber) | | | | |
| Rotating Face | Carbon | Carbon | Silicon Carbide | | | | |
| Stationary Face | Tungsten Carbide | Ceramic | Silicon Carbide | | | | |
| Hardware | Stainless Steel / Brass | Stainless Steel | Stainless Steel | | | | |

| Mechanical Seal Options | ES Bearing Frame | | |
|--------------------------------|------------------------------------|------------------------------------|------------------------------------|
| Temperature Range | -20 to 250°F | -10 to 225°F | -20 to 250°F |
| Maximum Pressure | 175 PSI | 175 PSI | 175 PSI |
| pH Limitations | 7.0 - 11.0 | 7.0 - 9.0 | 7.0 - 12.5 |
| Elastomer | EPR (Ethylene Propylene Rubber) | FKM (Viton™ or Fluoroelastomer) | EPR (Ethylene Propylene Rubber) |
| Rotating Face | Silicon Carbide | Carbon | Silicon Carbide |
| Stationary Face | Tungsten Carbide | Silicon Carbide | Silicon Carbide |
| Hardware | Stainless Steel / Brass | Stainless Steel | Stainless Steel |

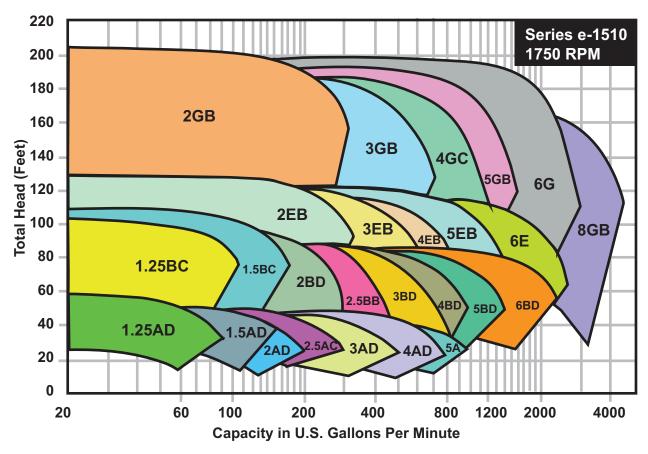
Stuffing Box Configuration

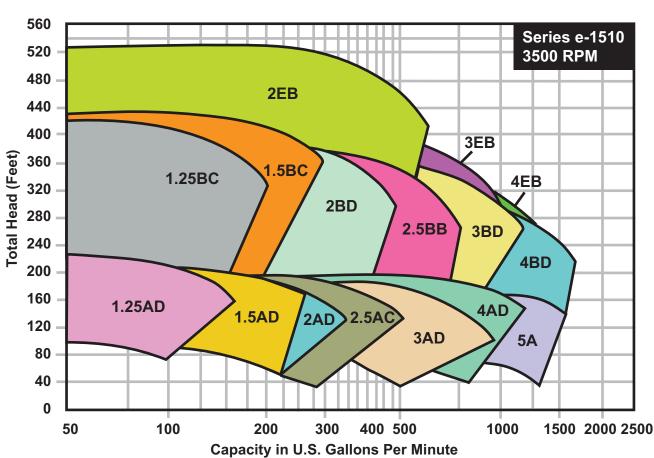
| Mechanical Seal | SM, LG, & XL Bearing Frames | | |
|-------------------|---------------------------------|--|--|
| Temperature Range | -20 to 250°F* | | |
| Maximum Pressure | 175 PSI (Optional 250 PSI) | | |
| pH Limitations | 7.0 - 11.0 | | |
| Elastomer | EPR (Ethylene Propylene Rubber) | | |
| Rotating Face | Tungsten Carbide | | |
| Stationary Face | Carbon | | |
| Hardware | Stainless Steel | | |

^{*} For operating temperatures above 250°F a cooled flush is required and is recommended for temperatures above 225°F for optimum seal life. On closed systems cooling is accomplished by inserting a small heat exchanger in the flush line to cool the seal flushing fluid.

Flush-line Filters and Sediment Separators are available on special request.

Series e-1510 Performance Curves





The Bell & Gossett End Suction Pump System

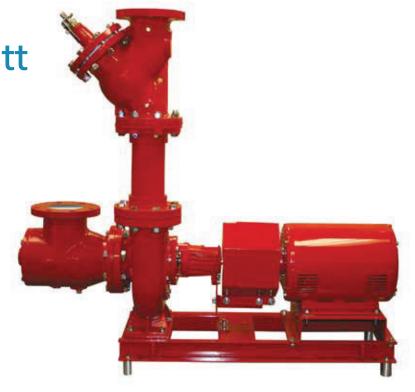
Consists of:

B&G Series e-1510 Pump B&G Triple Duty® Valve B&G Suction Diffuser Plus



Triple Duty Valve

- Lowest Pressure Drop
- ASHRAE 90.1 Energy Efficient Design
- Three Valves in one!
 - Nonslam drip-tight check valve
 - Positive shutoff valve
 - Calibrated system balance valve
- EPDM Disc Soft Seat Design
- Repack Under Pressure
- Brass Seat & Bronze Disc
- Stainless Steel Stem
- Multi-turn Valve (8-9 turns) vs 1/4 turn range of control
- Available connections Threaded Flanged Grooved
- ESP-Systemwize Selection





Suction Diffuser Plus

- Flow Cone (patent pending) eliminates recirculation zones, directing flow toward the pump and improving flow conditioning
- Full length straightening vanes assure uniform flow pattern for pump inlet
- Large diameter orifice cylinder prevents debris from entering pump suction while maintaining low pressure drop.
- Fine mesh throwaway start-up strainer assures cleaner, more trouble free system
- Optional pressure/temperature ports permit checking of system conditions and verification of start-up strainer presence
- Eliminates the need for separate long radius elbows or reducing elbows
- Common installation dimensions compared to previous B&G designs making retrofits easy.
- Easily removable end cap with reusable o-ring
- Plug/blow down connection permits routine maintenance

Typical Specification for Series e-1510 Base Mounted, Flexible Coupled, End-Suction Pumps

Furnish and install pumps with performance characteristics as shown on plans. Pumps shall be base mounted, single stage, end suction design with a foot mounted volute to allow removal and service of the entire rotating assembly without disturbing the pump piping, electrical motor connections or pump to motor alignment.

Pump volute shall be Class 30 cast iron or ductile iron with integrally-cast pedestal support feet. The impeller shall be a cast stainless steel enclosed type, balanced to ISO 1940-1 balance grade G6.3 and secured to the shaft by a locking capscrew or nut.

The liquid cavity shall be sealed off at the pump shaft by an internally-flushed mechanical seal with ceramic seal seat and carbon seal ring, suitable for continuous operation at 225°F (107°C). A replaceable stainless steel shaft sleeve shall completely cover the wetted area under the seal.

Pump shall be rated for minimum of 175 psi (12 bar) working pressure. Volute shall have gauge tappings at the suction and discharge nozzles and vent and drain tappings at the top and bottom.

The pump(s) vibration limits shall conform to Hydraulic Institute ANSI/HI 9.6.4-2009 for recommend acceptable unfiltered field vibration limits (as measured per ANSI/HI 9.6.4 (2016) Figure 9.6.4.2.3.1) for pumps with rolling contact bearings.

Baseplate shall be of structural steel or fabricated steel channel with fully enclosed sides and ends, and securely welded cross members. Grouting area shall be fully open. The combined pump and motor baseplate shall be sufficiently stiff as to limit the susceptibility of vibration. The minimum baseplate stiffness shall conform to ANSI/HI 1.3.8.2.1-2013 for grouted Horizontal Baseplate Design standards.

A flexible type, center drop-out design coupling, capable of absorbing torsional vibration, shall be employed between the pump and motor. Pumps for variable speed application shall be provided with a suitable coupling sleeve. The coupling shall be shielded by a rated OSHA 1910.219 compliant coupling guard and contain viewing windows for inspection of the coupling.

Motor shall meet NEMA and EISA 2014 (where applicable) specifications and shall be of the size, voltage and enclosure called for on the plans. Pump and motor shall be factory aligned, and shall be realigned by the contractor per factory recommendations after installation.

The pump(s) selected shall conform to ANSI/HI 9.6.3 (2017) standards for Preferred Operating Region (POR) unless otherwise approved by the engineer.

Each pump shall be factory hydrostatically tested per Hydraulic Institute standards. It shall then be thoroughly cleaned and painted with at least one coat of high grade paint prior to shipment.

The pump(s) shall be manufactured, assembled and tested in an ISO 9001 approved facility.

Series e-1510 pumps are manufactured by Bell & Gossett, a Xylem, Inc. brand.

We value your feedback. Please take our 3 question survey at **bellgossett.com/survey** to let us know how we are doing.



Xylem Inc. 8200 N. Austin Avenue Morton Grove, Illinois 60053 Phone: (847) 966-3700 Fax: (847) 965-8379 www.xylem.com/bellgossett

Performance Report

Project Name: San Bernardino County High Desert Gov

> Tag Name: 100 Ton

Submitted by: Ryan Walsh

Project Name: San Bernardino County High Desert Gov

Tag Name: 100 Ton

| Shij | pping Dimensions | |
|---|------------------|--------|
| Unit Length | ft and in | 43' 4" |
| Unit Width | ft and in | 8' 2" |
| Unit Height | ft and in | 7' 0" |
| Unit Operating Weight | lb | 10788 |
| Unit Shipping Weight | lb | 10838 |
| www.Chinainananinahananinananinananinananin | | |

^{****}Shipping weights and dimensions are approximate for shipping purposes. Shipping dimensions include OA hoods. See certified drawing for operating dimensions.

** Operating and shipping weights and dimensions do not include curbs, accessories, or special order options.

| Performance Information | | | | | | |
|------------------------------------|--------|---------------------|--|--|--|--|
| Part Number | | 50V3HQ98A1-6B8C2A3 | | | | |
| Unit Refrigerant | | R454B | | | | |
| EER | | 9.7 | | | | |
| IEER | | 16.7 | | | | |
| Heat Type | | Hot Water Coil | | | | |
| Supply/Return | | Vertical / Vertical | | | | |
| Application Type | | Variable Air Volume | | | | |
| Voltage | | 460-3-60 | | | | |
| Cooling Airflow | CFM | 37000.0 | | | | |
| Altitude | ft | 0 | | | | |
| Condenser Entering Air Temperature | F | 95.0 | | | | |
| Entering Air Temperature Dry Bulb | F | 80.0 | | | | |
| Entering Air Temperature Wet Bulb | F | 67.0 | | | | |
| Entering Air Enthalpy | BTU/lb | 31.44 | | | | |
| Leaving Air Temperature Dry Bulb | °F | 58.5 | | | | |
| Leaving Air Temperature Wet Bulb | °F | 57.5 | | | | |
| Leaving Air Enthalpy | BTU/lb | 24.69 | | | | |
| Gross Cooling Capacity | MBH | 1123.31 | | | | |
| Gross Sensible Cooling Capacity | MBH | 859.0 | | | | |
| Compressor Power | kW | 79.792 | | | | |
| Coil Bypass Factor | | 0.077 | | | | |
| Refrigerant Charge, Circuit A | lb | 58.0 | | | | |
| Refrigerant Charge, Circuit B | lb | 59.0 | | | | |

| Hot Water Heating Data | | | | | | |
|--|-------|-------------|--|--|--|--|
| Heating Airflow | CFM | 37000.0 | | | | |
| Fluid | | Fresh Water | | | | |
| Heating Entering Air Temperature | F | 70.0 | | | | |
| Entering Fluid Temperature | F | 180.0 | | | | |
| Leaving Air Temperature | °F | 116.9 | | | | |
| Leaving Fluid Temperature | °F | 118.0 | | | | |
| Fluid GPM | gpm | 60.0 | | | | |
| Fluid Temperature Drop | °F | 62.0 | | | | |
| Fluid Pressure Drop (Does not include Header PD) | ft wg | 4.64 | | | | |

| Electrical Data | | | | | | |
|---------------------------------------|----------------|--|--|--|--|--|
| Voltage Range | 414 - 506 | | | | | |
| Compressor #1 Qty | 1 | | | | | |
| Compressor #1 RLA/*MRC* | *38.9* | | | | | |
| Compressor #2 Qty | 3 | | | | | |
| Compressor #2 RLA | 29.5 | | | | | |
| Compressor #2 LRA | 227 | | | | | |
| Indoor Fan Motor Type | MED | | | | | |
| Power Supply MCA | 220 | | | | | |
| Power Supply MOCP (Fuse or HACR) | 250 | | | | | |
| Outdoor Fan Drive | STD | | | | | |
| Minimum Non-Fused Disconnect Amperage | 242 | | | | | |
| Power Exhaust | NO | | | | | |
| Control Load | 2.4 | | | | | |
| Outdoor Fan Details (Qty./*MOC* (ea)) | 6 / *3.4* | | | | | |
| IFM Details (Qty./HP(ea)/*MOC*(ea)) | 6 / 9.4 / *10* | | | | | |
| Unit Capacity | STD | | | | | |
| Electrical Convenience Outlet | None | | | | | |

Note: Factory -installed non-fused disconnect is nominally sized. Check power wire size and disconnecting size.

| Supply Fan Information | | | | | |
|----------------------------|-------|-------|--|--|--|
| External Static Pressure | in wg | 1.00 | | | |
| Hot Water Coil Loss | in wg | 0.67 | | | |
| 4 inch Filter MERV 13 Loss | in wg | 0.37 | | | |
| Economizer Loss | in wg | 0.36 | | | |
| Supply Fan RPM | RPM | 2529 | | | |
| Supply Fan BHP | BHP | 36.68 | | | |
| Selection Static Pressure | in wg | 2.80 | | | |

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Applied Rooftops NAO V1.0.4.0 Page 1/3



Performance Report

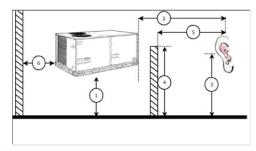
Project Name: San Bernardino County High Desert Gov

Tag Name: 100 Ton

Submitted by: Ryan Walsh

| Acoustic Information | | | | | | | | | |
|----------------------|----|-------|------|-------|-------|--------|-------|-------|-------|
| Frequencies | Hz | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| Discharge | Lw | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Inlet | Lw | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Outdoor | Lw | 80.54 | 84.7 | 92.68 | 97.69 | 100.15 | 98.68 | 93.48 | 87.45 |

Discharge / Inlet Duct Sound Power test data rated in accordance with the AHRI 260 Standard.



| Advanced Acous | tics Parameters | |
|---|-----------------|------|
| Unit height above ground | ft | 30.0 |
| Horizontal distance from unit to receiver | ft | 50.0 |
| Receiver height above ground | ft | 5.7 |

| | | | | | Detailed Acous | tic Information | | | | |
|-----------------------------------|-----|-------|-------|-------|----------------|-----------------|-------|-------|-------|---------|
| Octave Band Center Freq. | Hz | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | Overall |
| A | Lw | 80.54 | 84.70 | 92.68 | 97.69 | 100.2 | 98.68 | 93.48 | 87.45 | 104.6 |
| В | LwA | 54.34 | 68.60 | 84.08 | 94.49 | 100.2 | 99.88 | 94.48 | 86.35 | 104.2 |
| C | Lp | 47.13 | 51.29 | 59.27 | 64.28 | 66.74 | 65.27 | 60.07 | 54.04 | 71.16 |
| D | LpA | 20.93 | 35.19 | 50.67 | 61.08 | 66.74 | 66.47 | 61.07 | 52.94 | 70.80 |

- A Sound Power Levels at Unit's Acoustic Center
 B A-Weighted Sound Power Levels at Unit's Acoustic Center
 C Sound Pressure Levels at Specific Distance from Unit
 D A-Weighted Sound Pressure Levels at Specific Distance from Unit

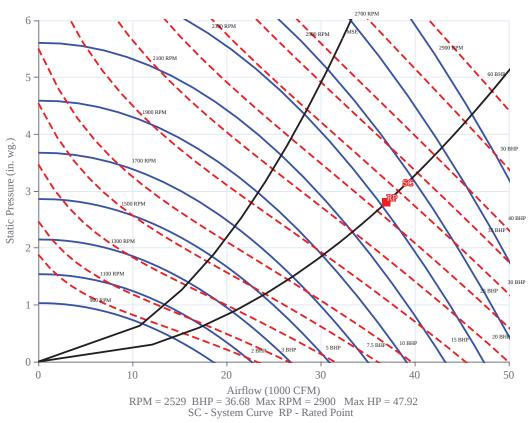
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Applied Rooftops NAO V1.0.4.0 Page 2/3

Tag Name: 100 Ton

Submitted by: Ryan Walsh

Supply Fan Curve







This product meets a stringent set of our company's internally defined sustainability standards.

XVERS" L

Engineered to keep your environment controlled and comfortable.

399 MBTUH - 850 MBTUH

H 97.2-98% Efficiency



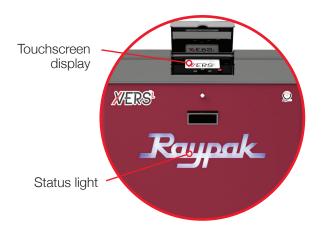
Click icon or view standalone page to learn more.



Sleek Design

- Multi-function status light provides a quick visual indication of the boiler's status at a distance while doubling as a service light
- Forklift and pallet jack accessible base for convenient transportation and installation







Maximum Performance

- Corrosion-resistant stainless steel fire tube heat exchanger for maximum efficiency and reliability
- Up to 10:1 turndown



Installation Flexibility

- Can be installed as primary or primary/secondary piping
- Multiple vent material options: PVC, CPVC, polypropylene, or stainless steel
- Compact, streamlined design and zero side clearance requirements for easy configuration based on your needs



Intelligent Controls

- VERSA IC controls with LCD touchscreen display and Raymote access
- Cascade up to 8 boilers in parallel or sequential modulation modes to optimize performance
- Built-in, automatic protection for more uptime and reliability you can depend on

Optional Features

✓ Variable or fixed speed pump

☑ Dynamic Protection flow meter and manifold

✓ Motorized isolation valve

☑ BACnet gateway

✓ Condensate treatment kit

✓ CSD-1 package

✓ Standard Stock Products

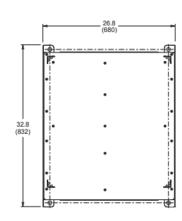
Applicable for hydronic heating in schools, multi-family housing, hospitals, gyms, and more.



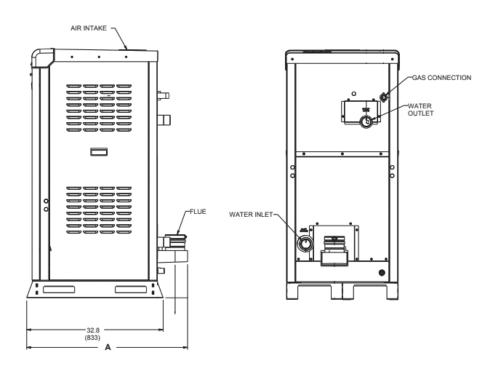


XVers L - Type H Models 406L - 856L

| | мвтин | l (kw/h) | | AUDI | Dimensions In. (mm) | | | | | |
|----------------|--------------|--------------|----------|-----------------------|---------------------|----------------------------------|------------|--------------------|------------|--|
| Model (H7-) | Input | Output | Turndown | Thermal Efficiency | A | Water Inlet/ Outlet NPT | Flue Ø | Air Intake Ø | Gas NPT | |
| 406L | 399 (117) | 391 (115) | 10 to 1 | 98% | 38.6 (980) | 2 | 4 (100) | 4 (100) | 1 | |
| 506L | 500 (147) | 489 (143) | 10 to 1 | 97.8% | 38.6 (980) | 2 | 4 (100) | 4 (100) | 1 | |
| 606L | 600 (176) | 586 (172) | 7 to 1 | 97.6% | 38.6 (980) | 2 | 4 (100) | 4 (100) | 1-1/4 | |
| 726L | 725 (213) | 705 (207) | 7 to 1 | 97.3% | 40 (1016) | 2-1/2 | 6 (150) | 6 (150) | 1-1/4 | |
| 856L | 850 (250) | 826 (242) | 7 to 1 | 97.2% | 40 (1016) | 2-1/2 | 6 (150) | 6 (150) | 1-1/4 | |







03/03/2025 10:31AM

Old Crime Lab

AC-14

Tag Cover Sheet
Unit Report
Certified Drawing
Performance Report

Unit Report For AC-14

Project: San Bernardino Old Crime Lab Prepared By: Ryan Walsh

03/03/2025 10:31AM

Unit Parameters

| Unit Model: | 48NLNB360606 |
|--------------------|-------------------|
| Unit Size: | 36 (3.0 Tons) |
| Volts-Phase-Hertz: | |
| Heating Type: | Gas |
| Refrigerant: | |
| Heat Control: | |
| Duct Cfg: | Vertical/Vertical |
| DX Options: | |

| Dimensions (ft. in.) & Weight (lk |).) *** |
|--|------------|
| Unit Length: | 4' 0.1875" |
| Unit Width: | 3' 8.125" |
| Unit Height: | 3' 7" |
| *** Weights and Dimensions are approxi | · · |

roof curbs, unit packaging, field installed accessories or factory installed options. Approximate dimensions are provided primarily for shipping purposes. For exact dimensions and weights, refer to appropriate product data catalog.

Base Unit Weight (Does not include any accessories):

Warranty Information

- 1 year warranty on parts
- 5 year warranty on compressor
- 5 year warranty on heat exchanger

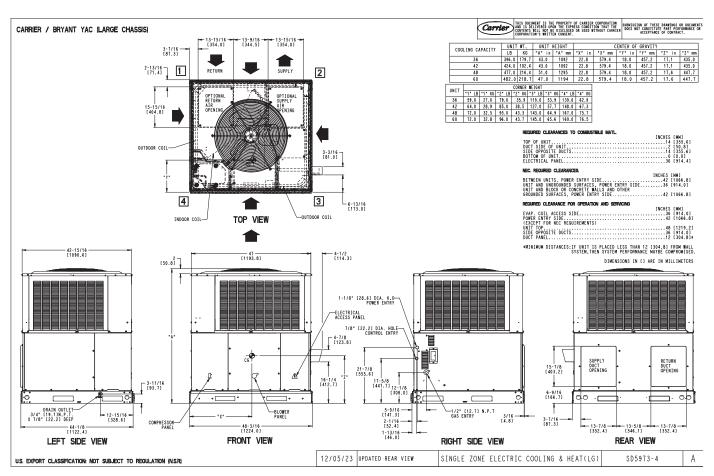
No optional warranties were selected.

Ordering Information

| Part Number | Description | Quantity |
|--------------|--------------|----------|
| 48NLNB360606 | Rooftop Unit | 1 |

Certified Drawing for AC-14

Project: San Bernardino Old Crime Lab Prepared By: Ryan Walsh 03/03/2025 10:31AM



Packaged Rooftop Builder 1.79h Page 3 of 6

Part Number: 48NLNB360606

| Refrigerant: | | |
|---|---|-------|
| ARI SEER2: | 13.40 | |
| Base Unit Dimensions | | |
| Unit Length: | 48.2 | in |
| Unit Width: | | |
| Unit Height: | | |
| Base Unit Weight (Does not include any accessories): | | |
| , | | |
| Unit | | |
| Unit Voltage-Phase-Hertz: | | |
| Air Discharge: | | |
| Fan Drive Type: | Direct | |
| Actual Airflow: | | |
| Site Altitude: | 0 | ft |
| Cooling Performance | | |
| Condenser Entering Air DB: | 95.0 | F |
| Evaporator Entering Air DB: | | |
| Evaporator Entering Air WB: | | |
| Entering Air Enthalpy: | | |
| Evaporator Leaving Air DB: | | |
| Evaporator Leaving Air WB: | | |
| Evaporator Leaving Air Enthalpy: | | |
| Net Cooling Capacity: | | |
| Net Sensible Capacity: | | |
| Total Unit Power Input: | | |
| Coil Bypass Factor: | | |
| Heating Performance | | |
| Heating Airflow: | 1178 | CEM |
| Entering Air Temp: | | |
| Leaving Air Temp: | | |
| Gas Heating Input Capacity: | | |
| Gas Heating Output Capacity: | | |
| Temperature Rise: | | |
| AFUE (%): | | • |
| Supply Fan | | |
| External Static Pressure: | 0.50 | in wa |
| Options / Accessories Static Pressure | | |
| Wet Coil: | 0.05 | in wa |
| Application External Static (ESP + Unit Opts/Acc.): | | in wg |
| Fan RPM: | | 3 |
| Fan Power: | 0.30 | BHP |
| Fan Motor Size, hp: | | |
| NOTE: | | |
| Selection includes construction throwaway filter into the | | 4 |
| Selection includes construction throwaway inter into the | base fair curve. This litter is not MERV Rate | u. |
| Electrical Data | | |
| Minimum Voltage: | 414 | |
| Maximum Voltage: | | |
| Compressor RLA: | | |
| Compressor LRA: | | |
| Outdoor Fan FLA (ea): | | |
| Indoor Fan Motor FLA (Total): | | |
| Power Supply MCA: | 6.8 | |

Performance Summary For AC-14

Project: San Bernardino Old Crime Lab

03/03/2025 Prepared By: Ryan Walsh 10:31AM

| Power Supply MOCP (Fuse or HACR): | 15 |
|-----------------------------------|----|
| Inducer Motor FLA: | 33 |

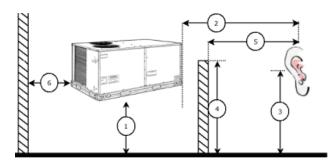
Control Panel SCCR: 5kA RMS at Rated Symmetrical Voltage

Acoustics

| Sound Rating: 75.0 | db |
|--|----|
| Sound Power Levels, db re 10F-12 Watts | |

| | Discharge | Inlet | Outdoor |
|---------|-----------|-------|---------|
| 63 Hz | NA | NA | NA |
| 125 Hz | NA | NA | 66.0 |
| 250 Hz | NA | NA | 69.0 |
| 500 Hz | NA | NA | 71.0 |
| 1000 Hz | NA | NA | 67.0 |
| 2000 Hz | NA | NA | 64.0 |
| 4000 Hz | NA | NA | 60.0 |
| 8000 Hz | NA | NA | 55.0 |

Advanced Acoustics



Advanced Accoustics Parameters

| 1. Unit height above ground: | 30.0 | ft |
|--|------|----|
| 2. Horizontal distance from unit to receiver: | 50.0 | ft |
| 3. Receiver height above ground: | 5.7 | ft |
| 4. Height of obstruction: | 0.0 | ft |
| 5. Horizontal distance from obstruction to receiver: | 0.0 | ft |
| 6. Horizontal distance from unit to obstruction: | 0.0 | ft |

Detailed Acoustics Information

| Octave Band Center Freq. Hz | 63 | 125 | 250 | 500 | 1k | 2k | 4k | 8k | Overall |
|-----------------------------|------|------|------|------|------|------|------|------|----------|
| A | 0.0 | 66.0 | 69.0 | 71.0 | 67.0 | 64.0 | 60.0 | 55.0 | 75.2 Lw |
| В | - | 49.9 | 60.4 | 67.8 | 67.0 | 65.2 | 61.0 | 53.9 | 72.3 LwA |
| | 26.2 | | | | | | | | |
| С | 0.0 | 33.6 | 36.6 | 38.6 | 34.6 | 31.6 | 27.6 | 22.6 | 42.8 Lp |
| D | - | 17.5 | 28.0 | 35.4 | 34.6 | 32.8 | 28.6 | 21.5 | 39.9 LpA |
| | 26.2 | | | | | | | | · |

- A Sound Power Levels at Unit's Acoustic Center, Lw
- B A-Weighted Sound Power Levels at Unit's Acoustic Center, LwA
- C Sound Pressure Levels at Specific Distance from Unit, Lp
- D A-Weighted Sound Pressure Levels at Specific Distance from Unit, LpA

AC 1, 5,6

Tag Cover Sheet
Unit Report
Certified Drawing
Performance Report

Unit Report For AC 1, 5,6

Project: San Bernardino Old Crime Lab Prepared By: Ryan Walsh 01/22/2025 12:32PM

Unit Parameters

| 48GEGM04A3A5-3A0A0 | Unit Model: |
|-----------------------------------|------------------|
| 04 (3 Tons) | Unit Size: |
| 208-3-60 | Volts-Phase-Hert |
| Gas | Heating Type: |
| R-454B | Refrigerant: |
| Ultra Low NOx, Low Gas Heat | Heat Control: |
| Vertical Supply / Vertical Return | Duct Cfg: |
| o Stage Cooling, Single Circuit | DX Options: |

Dimensions (ft. in.) & Weight (lb.) ***

| Unit Length: | 6' 2.375" | |
|-------------------------|------------|----|
| Unit Width: | 3' 10.625" | |
| Unit Height: | 2' 9.375" | |
| Total Operating Weight: | 537 | lb |

^{***} Weights and Dimensions are approximate. Weight does not include unit packaging. Approximate dimensions are provided primarily for shipping purposes. For exact dimensions and weights, refer to appropriate product data catalog.

Lines and Filters

| Gas Line Size: | 1/2 |
|-----------------------------|-------------|
| Condensate Drain Line Size: | 3/4 |
| Return Air Filter Type: | Throwaway |
| Return Air Filter Quantity: | 2 |
| Return Air Filter Size: | 16 x 25 x 2 |

Selection includes construction throwaway filter into the base fan curve.

Unit Configuration

Ultra Low NOx, Low Gas Heat High Static - EcoBlue Vane Axial Fan Al/Cu - Al/Cu SystemVu Controller Standard Packaging

Warranty Information

- 1-Year parts(std.)
- 5-Year compressor parts(std.)
- 3-Year SystemVu
- 10-year heat exchanger Ultra Low NOx modles

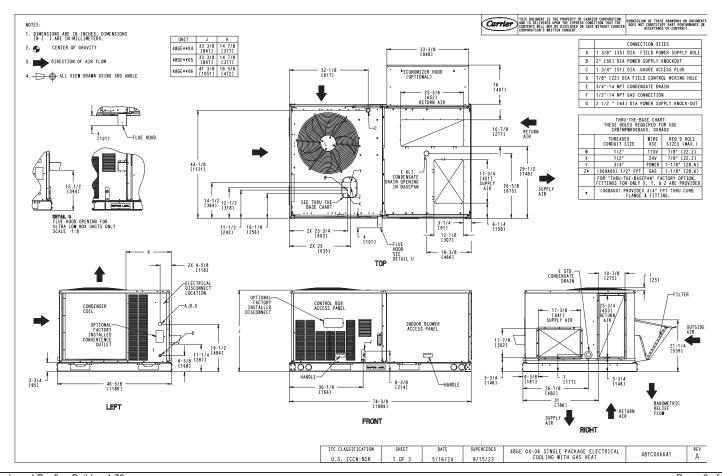
No optional warranties were selected.

Ordering Information

| Part Number | Description | Quantity | |
|--------------------|--------------|----------|--|
| 48GEGM04A3A5-3A0A0 | Rooftop Unit | 3 | |

Certified Drawing for AC 1, 5,6

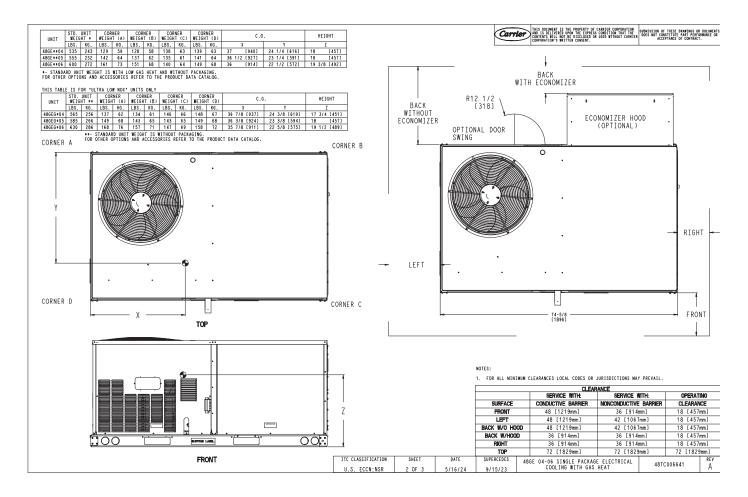
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Certified Drawing for AC 1, 5,6

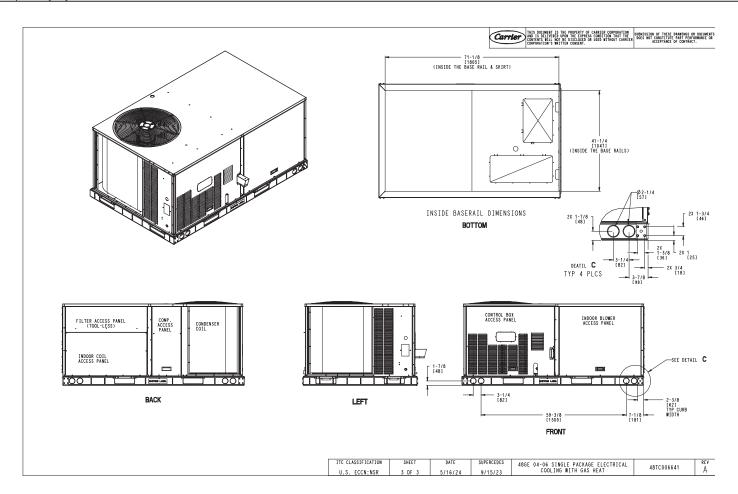
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Certified Drawing for AC 1, 5,6

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