

SB County

Chino Airport Perimeter Upgrades

Lighting Cutsheets - 100% Construction Documents



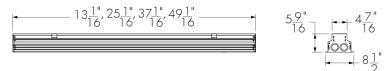
Project Name Qty

Catalog / Part Number





Top view



Front and side views

Photometric Summary

| | Delivered output (lm) | Intensity (peak cd) |
|---------|-----------------------|---------------------|
| WW | 3,634 | 10,795 |
| 8°x8° | 4,512 | 59,238 |
| 10°x10° | 4,410 | 33,872 |
| 10°x30° | 4,586 | 25,296 |
| 10°x60° | 3,876 | 12,062 |
| 10°x90° | 4,077 | 6,927 |
| 15°x25° | 4,346 | 19,773 |
| 30°x30° | 4,730 | 16,886 |
| 30°x60° | 4,035 | 5,317 |
| 35°x35° | 4,612 | 11,616 |
| 50°x80° | 4,656 | 3,904 |
| 60°x60° | 3,868 | 3,368 |
| 80°x80° | 4,548 | 2,992 |
| 90°x90° | 4,070 | 2,132 |

Based on HO 40K full output, 4ft [1219mm],

DMX/RDM configuration.

2.5° factory-set tilt setting for WW optic, 0° tilt setting for all other optics.

Photometric performance is measured in compliance with IESNA LM-79-08.

Description

The Lumenfacade Inground is an LED luminaire designed for ground-recessed lighting applications, including asymmetric wall washing, grazing, and linear wayfinding. An innovative, plug and play design simplifies installation, protecting the system from water infiltration and ensuring long-lasting performance. Featuring second generation LED technology, the Lumenfacade Inground is available in four different sizes (12 in, 24 in, 36 in or 48 in), with a wide choice of outputs, color temperatures, color-mixing systems, optics and controls. A unique asymmetric wallwash distribution is also available, providing exceptional uniformity and brightness for walls and signage.

Features

| Construction | Walk over compliant up to 500 kg in any type of ground, Walk |
|-----------------------------|---|
| | over compliant up to 1000 kg in concrete |
| Color and Color Temperature | 2200K, 2700K, 3000K, 3500K, 4000K, Red, Green, Blue |
| Length (nominal) | 12 in, 24 in, 36 in, 48 in |
| Optics | Asymmetric wallwash, 8° x 8°, 10° x 10°, 10° x 30°, 10° x 60°, 10° x 90°, 15° x 25°, 30° x 30°, 30° x 60°, 35° x 35°, 50° x 80°, 60° x 60° 80° x 80°, 90° x 90° |
| Tilt Setting (factory set) | 0 degrees, 2.5 degrees, 5 degrees, 20 degrees |
| Optical Option | Internal louver |
| Options | Anti-slip lens, CE (certification covers European Economic Area) |
| Power Consumption | 5 W/ft (meets ASHRAE standards for linear lighting on building facades - not available for 12 in fixture lengths), 8.5 W/ft (RO version), 15.25 W/ft (HO version), Typically 20% higher for 12 in fixture lengths |
| Warranty | 5-year limited warranty |

Optics

| ww | 8° × 8° | 10° × 10° | 10° × 30° | 10° x 60° |
|-----------|-----------|-----------|-----------|-----------|
| 10° x 90° | 15° × 25° | 30° × 30° | 30° × 60° | 35° x 35° |
| 500 000 | (2) (2) | 000 000 | | |

1220 Marie-Victorin Blvd., Longueuil, QC, J4G 2H9, CA info@lumenpulse.com www.lumenpulse.com

T United States 617.307.5700 | Canada 1.877.937.3003 | 514.937.3003 www.lumenpulse.com/products/2556

F 514.937.6289

Colors and Color Temperatures











2200K 2700K 3000K 3500K 4000K









Controls

ON/OFF

0-10V

DALI

lumen talk





Ratings

IP68 IK10

Certifications









Performance

| Maximum Delivered Output | 4,730 lm (48 in fixture, 4000K, 30° x 30°, 0° tilt setting, DMX/RDM) |
|-----------------------------|--|
| Maximum Delivered Intensity | 59,238 cd at nadir (48 in fixture, 4000K, 8° x 8°, 0° tilt setting, DMX/RDM) |
| Illuminance at Distance | Minimum 1 fc at 243 ft (48 in fixture, 4000K, 8° x 8° , 0° filt setting, DMX/RDM) |
| Color Consistency | 2 SDCM, 3 SDCM (2200K) |
| Color Rendering | Minimum CRI 80 |
| Lumen Maintenance | L70 280,000 hrs, L95 35,000 hrs |
| Physical | |

<u>Physical</u>

| Optical Chamber Material | Aluminum |
|--------------------------|---|
| Blockout Material | Polymer recycled PVC reinforced with a stainless steel frame |
| Trim Material | Anodized aluminum |
| Lens Material | Tempered glass |
| End Cap Material | Die cast aluminum |
| Hardware Material | Stainless steel |
| Weight | 12 in: 7.5 lbs, 24 in: 15.3 lbs, 36 in: 21.4 lbs, 48 in: 27 lbs |

Electrical and control

| Voltage | 120 to 277 volts |
|------------------------|---|
| Fixture Cable | Power and data in one cable |
| Leader Cable Conductor | 5C #16-5 |
| Connectors | IP68 push-lock |
| Control | On/Off control, Lumentalk, 0-10V dimming, DALI dimming, Lutron® EcoSystem® Enabled dimming, DMX/RDM enabled |
| Resolution (DMX/RDM) | Per foot or per fixture (configured with LumenID V3 software), 8-bit or 16-bit |
| Forderson | |

Environmental

| storage temperature | -40 °F to 185 °F (device must reach start-up temperature value before operating) |
|---------------------------|--|
| Start-up Temperature | -13 °F to 122 °F |
| Operating Temperature | -40 °F to 122 °F |
| Ingress Protection Rating | IP68 rated for up to 1 ft, not suitable for permanent immersion applications |
| Impact Resistance Rating | IK10 |

Accessories (order separately)

| Cables | Lumenfacade Inground Leader Cable, Lumenfacade Inground Jumper Cable |
|------------------------|--|
| Electrical Accessories | Lumenfacade Inground Junction Box |

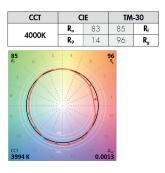


| Control Boxes | DMX/RDM enabled (daisy chain or star configuration), Ethernet enabled (daisy chain or star configuration) |
|---------------------------------|---|
| Control Systems | Lumentone™ 2 (LTN2), Pharos® kit (PHAROS) |
| Diagnostic and Addressing Tools | LumenID (LID), LumentalkID (LIDLT) |

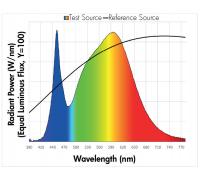


Chromaticity data

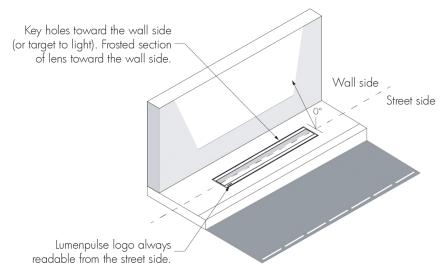
TM-30 - 4000K



Spectral Power Distribution



Optical chamber orientation



Cables (order separately)

LOILC - Leader cable for Lumenfacade Inground



LOILC-CERTIFICATION-LENGTH

Please specify:

CERTIFICATION: UL or CE; LENGTH: 10 ft, 25 ft or 50 ft

- Suitable for dimming/data and non-dimming applications.
- Consult Lumenfacade Inground leader cable specification sheet for details.

LOIJC - Jumper cable for Lumenfacade Inground



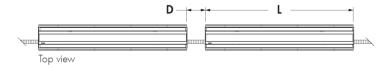
LOIJC-CERTIFICATION-LENGTH

Please specify:

CERTIFICATION: UL or CE; LENGTH: 2 ft, 4 ft or 10 ft

- Suitable for dimming/data and non-dimming applications.
- Consult Lumenfacade Inground jumper cable specification sheet for details.

Jumper cable length selection



- D distance between two fixtures
- L length of fixture

Add the length of one fixture to the distance between two fixtures: L + D. Order the next longest jumper cable available: 2 ft, 4 ft or 10 ft.

Example: if the distance between two 4 ft fixtures is 0.5 ft, L + D = 4.5 ft, therefore a 10 ft jumper cable is required.

Electrical accessories (order separately)

LOI-JBOX - Lumenfacade Inground Junction Box



Lumenfacade Inground IP68 sealed junction box starter kit. Use for stand alone fixtures and/or first of run installations. The LOI-JBOX accessory does not fit in 12 in fixtures.

Control boxes (order separately)

CBX-DMX/RDM - DMX/RDM enabled (daisy chain or star configuration)





DMX/RDM control box. Up to six power and data outputs to fixtures or fixture runs. Consult CBX specification sheet and installation instructions for details. Lumenterminators provided with CBX (2x for daisy chain configuration, 6x for star configuration), consult factory to order spares.

CBX-ENET - Ethernet enabled (daisy chain or star configuration)





Ethernet control box. Up to four power and data outputs to fixture or fixture runs. Consult Ethernet CBX specification sheet and installation instructions for details.

Control systems (order separately)

LTN2 - Lumentone™ 2



Lumentone 2 is a simple pre-programmed DMX 512 controller with a push button rotary dial and live feedback.

PHAROS - Pharos® kit







The Pharos kit, available for 1 or 2 DMX universes, allows for complete control of large lighting installations. 2 DMX universes kit shown.

Diagnostic and addressing tools (order separately)

LID - LumenID



LumenID is a diagnostic and addressing DMX/RDM tool. It must be specified on all DMX applications. Consult LID specification sheet for details.

LID-LT - LumentalkID



LumentalkID is a diagnostic and addressing tool. It must be specified for all Lumentalk (LT) applications. Consult LID-LT specification sheet for details.

Resolution details

DMX/RDM control, resolution per foot: each 12 in section is addressed independently DMX addresses:



DMX/RDM control, resolution per fixture: each fixture is addressed independently



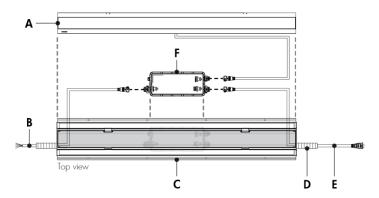
- 48 in fixtures shown.
- Applicable for DMX/RDM control option only. Fixture resolution can be configured on-site within the LumenID V3 software. A DMX/RDM enabled CBX is required.

Typical wiring diagrams

Wiring color code

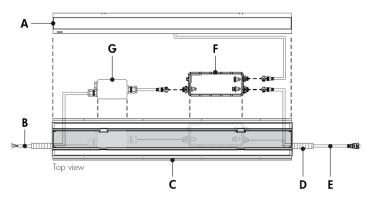
| UL Color Code | USE |
|---------------|----------------|
| Green | Ground |
| Black | Line |
| White | Line/Neutral |
| Red or Purple | 0-10V / Data + |
| Orange | 0-10V / Data - |

Typical installation with leader cable



- A Optical chamber
- B Leader cable (LOILC, order separately)
- C Blockout
- D Conduit (by others)
- **E** Jumper cable to next fixture (LOIJC, order separately, for continuous run installations)
- F PACBOX

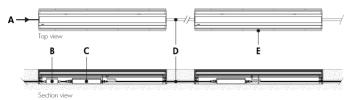
Typical installation with IP68 LOI-JBOX accessory



- A Optical chamber
- **B** Power and data input cable (by others)
- C Blockout
- **D** Conduit (by others)
- **E** Jumper cable to next fixture (LOIJC, order separately, for continuous run installations)
- F PACBOX
- G IP68 LOI-JBOX (order separately)

The IP68 LOI-JBOX accessory cannot be used with 12 in fixtures.

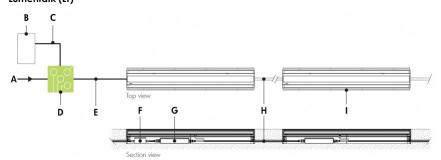
On/Off Control (NO)



- A Power input (120-277V, wiring by others)
- **B** IP68 LOI-JBOX (optional)
- C PACBOX
- D Jumper cable (LOIJC)
- E Lumenfacade Inground

- · Consult the installation instructions for additional wiring details.
- Consult factory for specific applications and maximum fixture count/cable length recommendations.
- ASHRAE version (not available for 12 in fixture lengths): 5 W/ft; Regular Output version: 8.5 W/ft; High Output version: 15.25 W/ft.

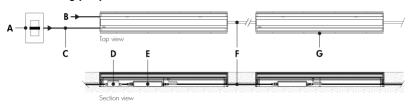
Lumentalk (LT)



- A Power input (100-277V AC, wiring by others)
- **B** Dimmer/controller (order separately from Lumenpulse, or by others)
- C Data wiring (by others)
- D Lumentranslator 2 (LTL2-DIM, -DMX, -TRIAC, -
- E Power wiring (by others)
- F IP68 LOI-JBOX (optional)
- G PACBOX
- H Jumper cable (LOIJC)
- I Lumenfacade Inground

- · Consult the installation instructions for additional wiring details.
- Consult factory for specific applications and maximum fixture count/cable length recommendations.
- Lumentalk enabled fixtures must be commissioned using LumentalkID software and a LID-LT. Consult factory for details.
- Maximum of 1 transmitter (Lumentranslator or Lumenlink) per system.
- No third party fixtures allowed on the same circuit.
- For DMX applications: 1 DMX controller per Lumentalk network, maximum of 48 DMX channels per Lumentalk network (minimum step transition update rate is 1 second, minimum fade time between two colors is 1 minute). Consult factory for applications that require additional capabilities.
- Consult factory for DALI Lumentalk applications.
- 1% minimum dimming value.
- ASHRAE version (not available for 12 in fixture lengths): 5 W/ft; Regular Output version: 8.5 W/ft; High Output version: 15.25 W/ft.

0-10V dimming (DIM)

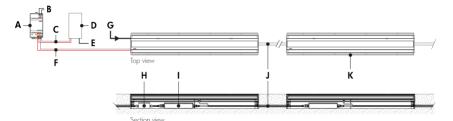


- A Dimmer (by others)
- B Power input (120-277V, wiring by others)
- C Data wiring (by others)
- D IP68 LOI-JBOX (optional)
- **E PACBOX**
- F Jumper cable (LOIJC)
- G Lumenfacade Inground

- · Consult the installation instructions for additional wiring details.
- · Consult factory for specific applications and maximum fixture count/cable length recommendations.
- 0-10V mA ratings: passive dimmer (Current Sink): 3 mA per fixture, active dimmer (Current Source): 0.5 mA per fixture.
- 1% minimum dimming value.
- ASHRAE version (not available for 12 in fixture lengths): 5 W/ft; Regular Output version: 8.5 W/ft; High Output version: 15.25 W/ft.



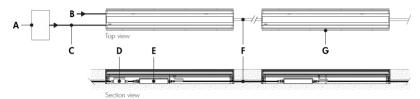
DALI dimming (DALI)



- A DALI bus power supply (by others)
- **B** Power input for DALI bus power supply (wiring by others)
- **C** Data output to DALI controller (wiring by others)
- **D** DALI controller (by others)
- **E** Power input for DALI controller (wiring by others)
- **F** Data output to fixture (wiring by others)
- G Power input (120-277V, wiring by others)
- H IP68 LOI-JBOX (optional)
- I PACBOX
- J Jumper cable (LOIJC)
- **K** Lumenfacade Inground

- Consult the installation instructions for additional wiring details.
- Consult factory for specific applications and maximum fixture count/cable length recommendations.
- Maximum of 64 DALI fixtures per DALI loop.
- 1% minimum dimming value.
- ASHRAE version (not available for 12 in fixture lengths): 5 W/ft; Regular Output version: 8.5 W/ft; High Output version: 15.25 W/ft.
- Commissioning may be required based on the selection of 3rd party DALI controller. Controller and commissioning provided by others.

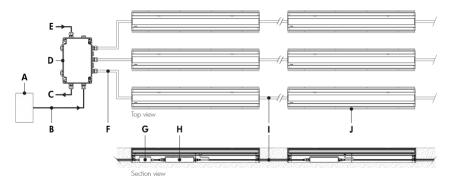
Lutron® EcoSystem® Enabled dimming (ES)



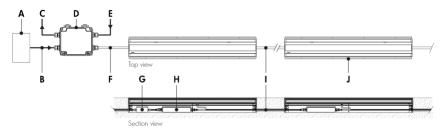
- A Lutron® EcoSystem® controller (by others)
- B Power input (120-277V, wiring by others)
- C Data wiring (by others)
- D IP68 LOI-JBOX (optional)
- E PACBOX
- F Jumper cable (LOIJC)
- G Lumenfacade Inground

- Consult the installation instructions for additional wiring details.
- Consult factory for specific applications and maximum fixture count/cable length recommendations.
- Each Lutron® EcoSystem® enabled fixture has its own address; for the example shown, there are a total of 2 EcoSystem® addresses.
- 1% minimum dimming value.
- ASHRAE version (not available for 12 in fixture lengths): 5 W/ft; Regular Output version: 8.5 W/ft; High Output version: 15.25 W/ft.

Star Layout (DMX/RDM)



Daisy Chain Layout (DMX/RDM)



A - DMX/RDM controller (order separately from Lumenpulse, or by others)

- **B** Data input (Belden 9841 or equivalent, by others)
- **C** Data output to next CBX (optional, not isolated/not boosted)
- D CBX-ST
- E Power input (120-277V, wiring by others)
- F Leader cable (LOILC)
- G IP68 LOI-JBOX (optional)
- **H** PACBOX
- I Jumper cable (LOIJC)
- J Lumenfacade Inground
- **A -** DMX/RDM controller (order separately from Lumenpulse, or by others)
- **B** Data input (Belden 9841 or equivalent, by others)
- **C** Data output to next CBX (optional, not isolated/not boosted)
- D CBX-DS
- E Power input (120-277V, wiring by others)
- F Leader cable (LOILC)
- G IP68 LOI-JBOX (optional)
- **H** PACBOX
- I Jumper cable (LOIJC)
- **J** Lumenfacade Inground

Maximum Run of Fixtures, Lumenfacade® LOI ASHRAE White & Static Colors 5 W/ft

Voltage

| The state of the s | | |
|--|----------|--|
| Voltage | 120/277V | |
| Maximum Run of Fixtures* | 1 28ft | |
| Maximum Run of Fixtures, Lumenfacade® LOI RO White & Static Colors 8.5 W/ft | | |
| Voltage | 120/277V | |
| Maximum Run of Fixtures* | 1 20ft | |
| Maximum Run of Fixtures, Lumenfacade® LOI HO White & Static Colors 15.25 W/ft | | |

Maximum Run of Fixtures*

Based on 15A maximum, 50ft leader cable.

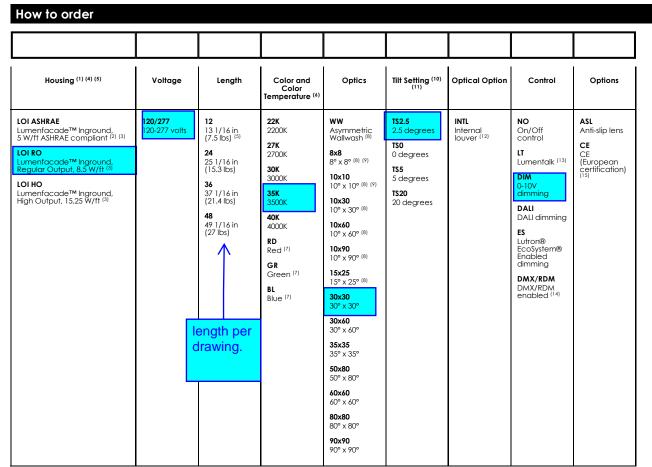
- Consult the installation instructions for additional wiring details.
- Consult factory for specific applications and maximum fixture count/cable length recommendations. Maximum run length calculations are typically based on 48 in fixtures.
- The DMX/RDM protocol states a maximum of 32 DMX/RDM enabled fixtures on any single run.

120/277V

68ft

- Maximum of 4 DMX/RDM repeaters/CBX cascading in line.
- Maximum of 6 outputs per CBX-ST; maximum of 1 output per CBX-DS.
- Each fixture requires 1 DMX address.
- 1% minimum dimming value.
- ASHRAE version (not available for 12 in fixture lengths): 5 W/ft; Regular Output version: 8.5 W/ft; High Output version: 15.25 W/ft.

^{*}Example: 120V = 120ft maximum run of end to end fixtures (30 fixtures maximum for 4ft LOI RO).



Notes:

- 1. A Lumenfacade Inground fixture includes one optical chamber (LOIC), one power and control box (PACBOX) and one recessed blockout (RBO). The LOIC, PACBOX and RBO are provided according to the output/color, length and control configuration.
- 2. ASHRAE version not available for 12 in fixture lengths.
- 3. Consult factory for products that are BAA-approved (Buy America.n Act).
 4. Consult the installation instructions to plan all aspects of the fixture installation.
- 5. Power consumption is typically 20% higher for 12 in fixture lengths
- 6. Consult factory for availability of static Royal Blue, 6500K and 90+ CRI
- 7. Static colors made to order 8-10 weeks.
- 8. 8x8, 10x10, 10x30, 10x60, 10x90, 15x25 and WW distributions come with a half-frosted lens to bring light low on the wall for grazing applications. Clear lens also available, consult factory.
- 9. For best results use with HO fixtures at a 6 in setback from surface. Contact factory for application support.
- 10. Do not specify a tilt setting for the asymmetric wallwash option. The asymmetric wallwash optic is factory set with a 2.5 degree tilt.
- 11. Tilt setting is factory set and cannot be adjusted in the field.
- 12. The addition of an internal louver will affect beam distribution. Consult factory for application support.

 13. A Lumentranslator 2 (LTL2) and LumentalkID (LIDLT) must be specified for Lumentalk applications. Consult Lumentranslator 2
- and Lumentalk pages and specification sheets for details.

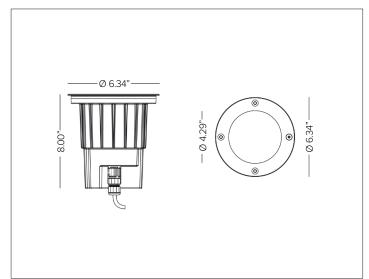
 14. A control box (CBX) and LumenID (LID) must be specified.
- 15. Consult European specification sheet and installation instructions for CE wiring information.

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Professional Inground LED Fixture



KEPLERO® Mini HE Factory Sealed with brushed natural trim and clear lens















○. CONCEPT

Factory sealed compact high performance inground for even illumination with maximum efficiency.

MECHANICAL CHARACTERISTICS

| Housing | 8"H x 6.34"Dia. Housing. |
|---------------------|--|
| Materials | Anodized marine grade cataphoresis A die-cast aluminum heat sink body with PVC installation sleeve. AISI316L stainless steel trim ring with beveled edge with extra clear glass lens. |
| Finish | ■ Brushed Natural ■ Bronze PVD* ■ Black PVD* |
| | *Physical Vapor Deposition. |
| Power Connection | Provided with 4ft SJ00W 16-6 cable and DSMT anti-wicking quick disconnect to direct burial brass ingrade j-box (required, sold separately). |
| Functionality | Light beam is fixed at 0° on the vertical axis. Consult factory for preset tilt angles. |
| Mounting | Flush, semi-flush or raised tube mountings. Installation sleeve for flush or semi-flush mountings includes optional stainless steel 'L' brackets for additional mounting support. Fixture equipped with fastening holes and stainless steel screws for attachment into installation sleeve assembly. |
| Weight | 2.43lbs |
| Protection | IP68 ^B / IP69K |
| Impact | IK10 |
| Load | Resistant to static loads up to 4,496lbs in flush mounted cement and pavement installations. |

(CERTIFICATIONS

cULus Wet Location Listed. Tested in accordance with LM-79-08. Compliant for California installations. IEC 62471 RoHS3 EU 215/863

SUSTAINABILITY

Targetti USA

Luminaire designed for disposal/recycling at end-of-life. Replaceable LED light source and control gear by a Targetti technician.

ELECTRICAL CHARACTERISTICS

| Power Supply | Integral 4/1 smart driver (Non-Dimmable / 0-10V / Reverse Phase / Forward Phase). |
|--------------|---|
| Wattage | 14W |
| Voltage | Universal Voltage 120-277V AC 50/60Hz |

SOURCE

| High efficiency | LED Chip | on Board. |
|-----------------|----------|-----------|
|-----------------|----------|-----------|

| TM30 | CCT (Nominal) | CRI | Rf | Rg | SDCM |
|------|---------------|-----|----|----|------|
| | 2700K | 80 | 82 | 96 | 2 |
| | 3000K | 80 | 83 | 96 | 2 |
| | 3500K | 80 | 83 | 95 | 2 |
| | 4000K | 80 | 82 | 95 | 2 |

O OPTIC

Highly reflective metallic polycarbonate optic.

Ra90 available upon request

| Beam | | SP 11° | FL 18° | MWFL 40° | |
|-----------------------------------|---|---------------------------------------|------------------------------|-------------------------|---|
| Delivered Lumens | 3000K | 1387Lm | 1397Lm | 1384Lm | |
| | 4000K | 1423Lm | 1434Lm | 1420Lm | |
| | | lumen values us multiplier of 1.02 | | m 3000K For 3500K lumer | n |
| Efficacy | 102Lm/W max. Refer to photometric graphs for specific values. | | | | |
| Lifetime | | • | max TA +25°C max TA +25°C | | |
| Photobiological Classification | Low risk | safety RG1 | | | |

WARRANTY

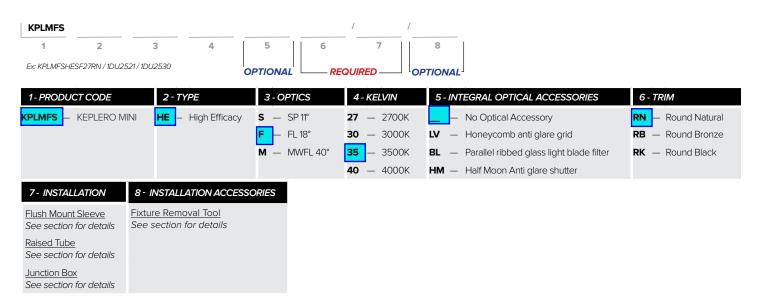
5 year limited warranty.

^AFixture body complete with marine grade cataphoresis suitable for use in marine grade environments. Stainless steel trim will need to be maintained and cleaned regularly to avoid mineral deposits. Not to be in direct contact with salt or corrosive agents for extended periods of time.

 $^{\rm B}$ Temporary immersion up to 24 hours at a max depth of 2 meters. Installation of fixture requires proper drainage to prevent any standing water. Should not be used for permanent submersion.



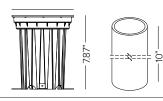
SPECIFICATION INFORMATION





7 - INSTALLATION (REQUIRED)





Installation sleeve for concrete pour applications. Grey Nylon casing with PVC installation outer pipe. For flush or semi-flush installations. Required for use with 1DU2530 by NEC.

Part No.

1DU2521





Raised installation sleeve for ground cover (succulents and low level planting) applications. 18"H stainless steel, includes factory pre-installed inner PVC sleeve. To be used with round trim options. Not suitable with 1DU2521 or 1DU2522. (Field cuttable. Used for fixture elevation 7" above grade). Required for use with 1DU2530 by NEC.

Finish

Deep Black

1DU434418 Part No.



Direct burial brass ingrade j-box. Features stainless steel cover screws and strain relief for power cord, (2) 3/4" NPT bottom holes and (2) 3/4" NPT side holes. Includes (4) 3/4" to 1/2" adapters and (2) 1/2" NPT plugs. (REQUIRED by NEC).

Part No. 1DU2530





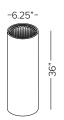
At grade or raised installation sleeve for turf or ground cover applications. 12" ${\sf H}$ stainless steel, includes factory pre-installed inner PVC installation sleeve. To be used with round trim options only. Not suitable for use with 1DU2521 or 1DU2522. (Field cuttable. Used for fixture elevations at grade to 3" above grade). Required for use with 1DU2530 by NEC.

Finish

Deep Black

Part No. 1DU434412





Raised installation sleeve for landscape applications. 36"H stainless steel, includes factory pre-installed inner PVC sleeve. To be used with round trim options. Not suitable with 1DU2521 or 1DU2522. (Field cuttable. Used for fixture elevation 21" above grade). Required for use with 1DU2530 by NEC.

Finish

Deep Black

Part No. 1DU4344

8 - INSTALLATION (OPTIONAL)



Fixture metal maintenance removal handle. Helpful one per 10 fixtures.

Part No 1E2524

Targetti USA

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rev. 01.31.23

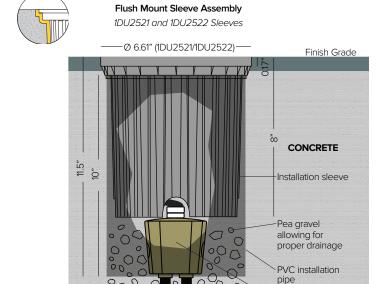
pg. 3 of 7

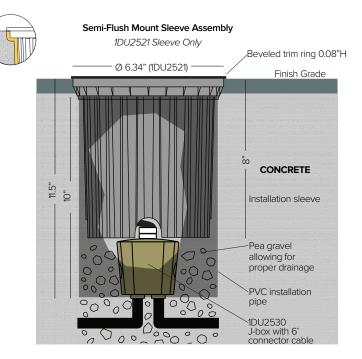


ADU2530 J-box with 6' connector cable

INSTALLATION DIAGRAM

CONCRETE POUR APPLICATION



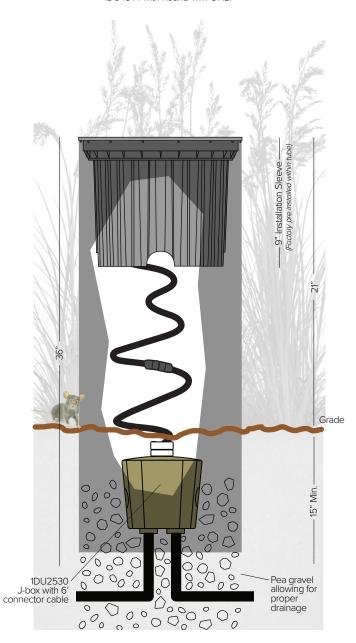


INSTALLATION DIAGRAM

LANDSCAPE APPLICATION

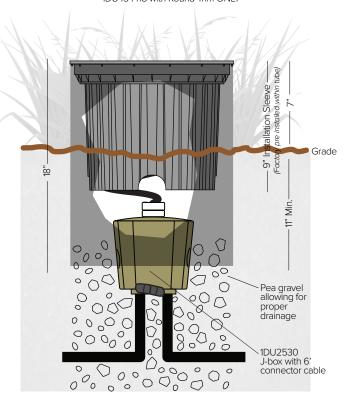
RAISED TUBE INSTALLATION ASSEMBLY

Recommended for Landscape Installation 1DU4344 with Round Trim ONLY



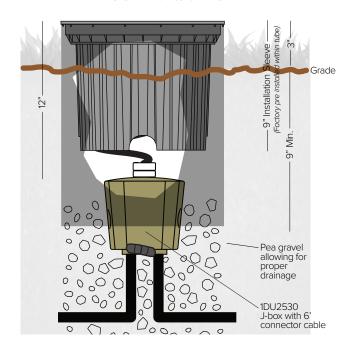
RAISED TUBE INSTALLATION ASSEMBLY

Recommended for Ground Level Installation 1DU434418 with Round Trim ONLY

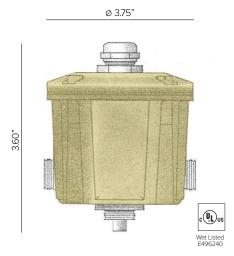


RAISED TUBE INSTALLATION ASSEMBLY

Recommended for Turf Installation 1DU434412 with Round Trim ONLY



INSTALLATION DIAGRAM - 1DU2530 J-Box



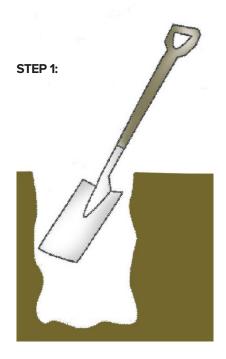
Brass junction box is supplied with the following components:

(4) 3/4" side/bottom NPT holes

(4) ½" reduction NPT adapters

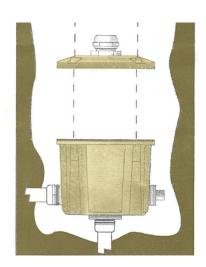
(2) 1/2" cap plugs

NOTE: Box fill size = 15.94 IN³



Dig a hole large enough to accommodate the junction box.

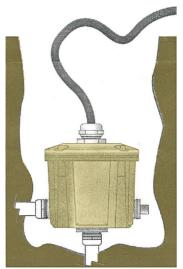
STEP 2:



Connect brass junction box to conduit system. Seal conduit entries inside junction box with a good grade RTV sealant per sealant manufacturer's instructions.

Note: Drainage must be in place below junction box.

STEP 3:



Seal threads. Tighten locking screw on bottom of cover. Connect all wires observing polarity (i.e. green-to-ground, white-to-common, and black-to-voltage). Provided with 1/2" strain relief.

PHOTOMETRY

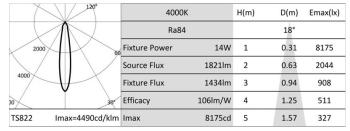
SPOT

| | 120° | 3000k | (| H(m) | D(m) | Emax(lx) |
|-----------------------|------|---------------|---------|------|------|----------|
| | | Ra84 | | | 11° | |
| 5000 | 66 | Fixture Power | 14W | 1 | 0.20 | 17736 |
| | | Source Flux | 1775lm | 2 | 0.39 | 4434 |
| 10000 | V | Fixture Flux | 1387lm | 3 | 0.59 | 1971 |
| 00 | 30 | Efficacy | 103lm/W | 4 | 0.79 | 1109 |
| TS821 Imax=9992cd/klm | | Imax | 17736cd | 5 | 0.99 | 709 |



FLOOD

| 120° | 3000K | | H(m) | D(m) | Emax(lx) |
|-----------------------|---------------|---------|------|------|----------|
| | Ra84 | | 18° | | |
| 2000 | Fixture Power | 14W | 1 | 0.31 | 7969 |
| | Source Flux | 1775lm | 2 | 0.63 | 1992 |
| 4000 | Fixture Flux | 1397lm | 3 | 0.94 | 885 |
| 30 | Efficacy | 104lm/W | 4 | 1.25 | 498 |
| TS822 Imax=4490cd/klm | Imax | 7969cd | 5 | 1.57 | 319 |



MEDIUM WIDE FLOOD

| | 120° | 3000k | (| H(m) | D(m) | Emax(lx) |
|-------|-----------------|---------------|---------|------|------|----------|
| | | Ra84 | | 40° | | |
| 800 | 60 | Fixture Power | 14W | 1 | 0.73 | 2861 |
| | | Source Flux | 1775lm | 2 | 1.47 | 715 |
| 1600 | | Fixture Flux | 1384lm | 3 | 2.20 | 318 |
| 00 | 30* | Efficacy | 102lm/W | 4 | 2.93 | 179 |
| TS823 | lmax=1624cd/klm | Imax | 2882cd | 5 | 3.67 | 114 |

