STATE OF CALIFORNIA **Outdoor Lighting**

CALIFORNIA ENERGY COMMISSION NRCC-LTO-E CERTIFICATE OF COMPLIANCE NRCC-LTO-E Barstow Parking Lot Report Page: Project Name: (Page 1 of 8) 1161 West Main Street Date Prepared: 3/23/2021 Project Address:

A. GENERAL INFORMATION

Ľ	OL.	CLIAL INFORMATION									
	01	Project Location (city)	Barsto	w	04	Total Illuminated Hardscape Area (ft²)	19033				
	02	Climate Zone	8	8		Total muminated hardscape Area (it)	19033				
	03	Outdoor Lighting Zone per Title 24 Part 1 §10.114 or as designated by Authority Having Jurisdiction (AHJ):									
		LZ-0: Very Low - Undeveloped Parkland	LZ-2: Moderate - Rural Areas			LZ-4: High - Must be reviewed by CA Energy Commission for Approval					
Γ		LZ-1: Low - Developed Parkland	\boxtimes	LZ-3: Moderately High - Urban Areas							

B. PROJECT SCOPE

		This table includes outdoor lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.7 or §141.0(b)2L for alterations.											
į	My Project Consists of:												
		01	02										
	\boxtimes	New Lighting System	Must Comply with Allowances from §140.7										
		Altered Lighting System	Is your alteration increasing the connected lighting	load (Watts)?		Yes		No					
		03	04		05								
		% of Existing Luminaires Being Altered ¹	Sum Total of Luminaires Being Added or Altered	Calculation Method									

Please proceed to Table F. Outdoor Lighting Fixture Schedule to define the project's luminaires. FOOTNOTES: % of Existing Luminaires Being Altered = (Sum Total of Luminaires Being Added or Altered / Existing Luminaires within the Scope of the Permit Application) x 100.

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 \square < 10% \square >= 10% and < 50% \square >= 50%

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STATE OF CALIFORNIA Outdoor Lighting

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F. OUTDOOR LIGHTING FIXTURE SCHEDULE

For new or altered lighting systems demonstrating compliance with §140.7 all new luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application are included in the Table below. For altered lighting systems using the Existing Power method per §141.0(b)2L only new luminaires being installed and replacement luminaires being installed as part of the project scope are included (ie, existing luminaires remaining or existing luminaires being moved are not included).

_ 00.B												
01	02		03	04	05	06	07	08	09 10			
Name or Item Tag	m Complete Luminaire Description		Watts per Iuminaire ^{1, 2}	How is Wattage determined	Total number luminaires ²	Luminaire Status ³	Excluded per §140.7(a)	Design Watts	Cutoff Req. > 6,200 initial lumen output §130.2(b) 4			
F1	F1	☐ Linear	53	Mfr. Spec	9	New		477	Yes		回	
F2 F2 Linear		106	Mfr. Spec	2	New		212	Yes				
	Total Design Watts: 689											

* NOTES: Selections with a * require a note in the space below explaining how compliance is achieved. EX: Luminaire is lighting a statue; EXCEPTION 2 to §130.2(b)

 1 FOOTNOTES: Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per $\underline{\$130.0(c)}$

² For linear luminaires, wattage should be indicated as W/lf instead of Watts/luminaire. Total linear feet should be indicated in column 05 instead of number of luminaires.

³ Select "New" for new luminaires in a new outdoor lighting project, or for added luminaires in an alteration. Select "Altered" for replacement luminaires in an alteration. Select "Existing to Remain" for existing luminaires within the project scope that are not being altered and are remaining. Select "Existing Reinstalled" for existing luminaires which are being removed and reinstalled as part of

the project scope. ⁴ Compliance with mandatory cutoff requirements is required for luminaires with initial lumen output >= 6,200 unless exempted by <u>§130,2</u>(

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STATE OF CALIFORNIA Outdoor Lighting

Cataooi Lighting		
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C. COMPLIANCE RESULTS

	lesults in this table are automatically calculated from data input and calculations in Tables F through I. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see applicable Table referenced below.														
	Calculations of Total Allowed Lighting Power (Watts) §140.7 or §141.0(b)2L												Co	mpliance Results	
01		02		03		04		05		06		07		08	09
General Hardscape Allowance §140.7(d)1 (See Table I)	+	Per Application §140.7(d)2 (See Table J)	+	Sales Frontage §140.7(d)2 (See Table K)	+	Ornamental §140.7(d)2 (See Table L)	+	Per Specific Area §140.7(d)2 (See Table M)	OR	Existing Power Allowance §141.0(b)21 (See Table N)	II	Total Allowed (Watts)	ΛΙ	Total Actual (Watts)	07 must be >= 08
1,016.08	+		+		+		+		OR		П	1,016.08	2	689	COMPLIES
					Cuto	off Compliance	(See	Table G for Det	tails)			COMPLIE			
	Controls Compliance (See Table H for Details										COMPLIES				

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

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G. CUTOFF REQUIREMENTS (BUG)

This table includes fixtures of >=6,200 initial lumens indicated on Table F as needing to comply with Cutoff Requirements. Maximum lumens can be found in Title 24, Part 11, Section

5.100.6.													
true		02	03	04	05	06	07	08	09	10	11	12	2
			Backlight Rating ²		Uplig	Uplight Rating ²			Glare Rating (Lumens) ²			ld ctor	
Name or Item Tag	Complete Luminaire Description	Mounting Height ¹	Max Allowable Backlight Rating ³	Backlight Rating Per Design		Max Allowable Uplight Rating ³	Uplight Rating Per Design	Mounting Height ¹	Max Allowable Glare Rating ³	Glare Rating Per Design	Pass	Fail	
F1		E-1	Back hemisphere 0.5 MH from prop line	B1	во	All other outdoor lighting, including decorative		UO	Back hemisphere 0.5 MH from prop line	G0	G0		
F2		F /	Back hemisphere 0.5 MH from prop line	B1		All other outdoor lighting, including decorative	l	U0	Back hemisphere 0.5 MH from prop line	G0	G0		

¹FOOTNOTES: Mounting Height is labeled MH in this table.

² Authority Having Jurisdiction may ask for Luminaire cut sheets or other documentation to confirm luminaire type, uplight ratings and glare ratings used for compliance per §130.2(b)

³ BUG ratings with a lower number than the 'Max Allowable' are compliant. Ex. If Max Allowable is Bug Rating B4, then B0, B1, B2 and B3 are all compliant.

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PREPARED BY: Michael Baker

Suite 500
SANTA ANA, CA 92707
PHONE: (949) 472-3505
MBAKERINTL.COM



	MARK	REVISIONS	APPR	DA
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COUNTY OF SAN BERNARDINO REAL ESTATE SERVICES DEPARTMENT -PROJECT MANAGEMENT DIVISION

SAN DIEGO, CA 92131 (858) 824-1761 FAX (858) 824-1768 EPI PROJECT #173-121E ROAD NO. TITLE 24 CALCULATIONS

FILE NO.

BARSTOW PARKING LOT PROJECT # 10.10.1133 COUNTY OF SAN BERNARDINO SHEET

E3.1

CONSULTING ENGINEERS

STATE OF CALIFORNIA **Outdoor Lighting**

CALIFORNIA ENERGY COMMISSION NRCC-LTO-E CERTIFICATE OF COMPLIANCE NRCC-LTO-E Project Name: Barstow Parking Lot Report Page: (Page 5 of 8) 1161 West Main Street Date Prepared: 3/23/2021 Project Address:

H. OUTDOOR LIGHTING CONTROLS

"DOES NOT COMPLY" if the notes are left blank.

This table demonstrates compliance with controls requirements for all new or altered luminaires installed as part of the permit application. For alteration projects, luminaires which are existing to remain (ie untouched) and luminaires which are removed and reinstalled (wiring only) do not need to be included in this table even if they are within the spaces covered by When an option having a * is selected, the notes section of this table must be completed. The lighting controls section of the Compliance Summary Table on the first page will show

Mandatory Controls

iviandatory Controls									
01	02	03	04	0	5				
Area Description	Shut-Off §130.2(c)1	Auto-Schedule <u>§130.2(c)2</u>	Motion Sensor <u>§130.2(c)3</u>	Field Inspector					
				Pass	Fail				
Electrical Panel	Photocontrol	Yes	Yes						
Parking Lot Lights	Photocontrol	Yes	Yes						
Sales Lot Lighting	Photocontrol	Yes	Yes						
NOTES: Controls with a * require a note in the space helpy explaining how compliance is achieved									

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EX: Not permitted by health & safety to be turned off; EXCEPTION 1 to §130.2(c)

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N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)

This section does not apply to this project.

O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.eneray.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Barstow Parking Lot Report Page:

71ccp3.77 00 00 01	ipsi// www.energy.car.gov/ inic2 i/ 2015standards/ 2015_compilance_documents/ vomesidential_bocuments/ vively								
Yes	No	Form/Title		spector					
103	110			Fail					
		NRCI-LTO-01-E - Must be submitted for all buildings							
•	()	NRCI-LTO-02-E- Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.							

P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification

Provider (AT					
Yes	No	Form/Title	Field Inspector		
163			Pass	Fail	
•	()	NRCA-LTO-02-A - Must be submitted for all outdoor lighting controls except for alterations where controls are added to <= 20 luminaires.			

Registration Number:

BENCHMARK:

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I. LIGHTING POWER ALLOWANCE (per <u>§140.7</u>)										
	s table includes areas using allowance calculations per <u>§140.7</u> . General Hardscape				01					
Allowance is per <u>Table 140.7-A</u> while "Use it or lose it" Allowances are per <u>Table 140.7-B</u> . Indicate which allowances are being used to expand sections for user input. Luminaires that qualify for one of the "Use it or lose it" allowances shall not qualify for another "Use it or lose it" allowance.				☐ General Hardscape Allowance Fable I (below) Use it or lose it Allowance (select all that apply)		t all that apply)				
						ation La Sal			☐ Per Specific Area Table M	
Calculated General Hardscape Lighting Power	Allowance per Table	140.7-A (LZ 0, 1 8	& 4)							
This section does not apply to this project.	This section does not apply to this project.									
Calculated General Hardscape Lighting Power	lated General Hardscape Lighting Power Allowance per Table 140.7-A (LZ 2 & 3)									
02	03	04	05	06		07	08	9	10	
		Area W	attage Allowanc	e Allowance (AWA)		Area Wattage Allov		ce (AWA)	Total General	
Area Description	Surface Type	Illuminated Area (ft²)	Allowed Density (W/ft²)	Area Allov (Watt		Perimeter Length (If)	Allowed Density (W/If	Linear Allowance (Watts)	AWA + LWA (Watts)	
Parking Lot	Asphalt	19033	0.03	475.82	25	761	0.4	190.25	666.075	
	Initial Wattage Allowance for Entire Site (Watts):								: 350	
Total General Hardscape Allowance (Watts					llowance (Watts)	: 1016.075				

J. LIGHTING ALLOWANCE: PER APPLICATION This section does not apply to this project.

K. LIGHTING ALLOWANCE: SALES FRONTAGE

L. LIGHTING ALLOWANCE: ORNAMENTAL This section does not apply to this project.

This section does not apply to this project.

M. LIGHTING ALLOWANCE: PER SPECIFIC AREA

This section does not apply to this project

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DOCUMENTATION AUTHOR'S DECLARATION STATEMENT					
certify that this Certificate of Compliance documentation is accurate and complete.					
Documentation Author Name: Scott Langille	Documentation Author Signature:				
Company: The Engineering Partners, Inc.	Signature Date: 2021-03-23				
Address: 10150 Meanley Drive, Suite 200	CEA/ HERS Certification Identification (if applicable):				
City/State/Zip: San Diego, CA 92131	Phone: 858-824-1761				
RESPONSIBLE PERSON'S DECLARATION STATEMENT I certify the following under penalty of perjury, under the laws of the State of California: 1. The information provided on this Certificate of Compliance is true and correct. 2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)					

3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

~	Responsible Designer Name: Benedick Balisi	Responsible Designer Signature:
	• •	Date Signed: 2021-03-23
	Address: 11150 Meanley Drive, Suite 200	License:
	and I to an appropriate and I a	Phone: 858-824-1761

Registration Number:

Registration Date/Time:

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CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

COUNTY OF SAN BERNARDINO REAL ESTATE SERVICES DEPARTMENT -PROJECT MANAGEMENT DIVISION

BARSTOW PARKING LOT PROJECT # 10.10.1133 COUNTY OF SAN BERNARDINO SHEET

TITLE 24 CALCULATIONS FILE NO. E3.2