



STATE OF CALIFORNIA  
**Outdoor Lighting**  
 NRCC-LTO-E (Revised 01/21) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE  
 Project Name: 7100 Galilee Road Report Page: Page 1 of 7  
 Project Address: 7100 Galilee Road Date Prepared: December 6, 2022

**A. GENERAL INFORMATION**

01 Project Location (city) Roseville 04 Total Illuminated Hardscape Area (ft<sup>2</sup>) 10,000  
 02 Climate Zone 12  
 03 Outdoor Lighting Zone per Title 24, Part 1 §10-1.14 or as designated by Authority Having Jurisdiction (AHJ):  
 L2-0: Very Low - Undeveloped Parkland  L2-1: Moderate - Rural Areas  L2-4: High - Must be reviewed by CA Energy Commission for Approval  
 L2-1: Low - Developed Parkland  L2-3: Moderately High - Urban Areas

**B. PROJECT SCOPE**

Table Instructions: Include any 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)(2) for alterations.  
 My project consists of:  
 01  New Lighting System Must Comply with Allowances from §140.7 02  Altered Lighting System Is your alteration increasing the connected lighting load (Watts)?  Yes  No  
 03  Existing Luminaires Being Altered<sup>1</sup> Sum Total of Luminaires Being Added or Altered 04  Existing Luminaires within the Scope of the Permit Application x 100  
 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

**C. COMPLIANCE RESULTS**

Table Instructions: If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D, for guidance.

Calculation of Total Allowed Lighting Power (Watts) §140.7 or §141.0(b)(2)										Compliance Results	
01	02	03	04	05	06	07	08	09			09
General Hardscape Allowance §140.7(d)(1)	Per Application §140.7(d)(2)	Sales Frontage §140.7(d)(2)	Ornamental §140.7(d)(2)	Per Specific Area Power §140.7(d)(2) OR §141.0(b)(2)	Existing Power §141.0(b)(2)	Total Allowed (Watts)	Total Actual (Watts)	07 Must be ≥ 08		09	
1,653.9						1,653.9	1,322	COMPLIES		COMPLIES	
Cutoff Compliance (See Table G for Details)										COMPLIES	
Controls Compliance (See Table H for Details)										COMPLIES	

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards> January 2021

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Table Instructions: Complete this table demonstrating 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 (or untouched) and luminaires which are removed (swung only) do not need to be included in this table even if they are within the spaces covered by the permit application.  
 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 "DOES NOT COMPLY" if the notes are left blank. For each requirement in columns 02 through 04, do not leave the field blank, instead select NA or Exempt\* from the dropdown list to indicate not applicable or an exemption.

**Mandatory Controls**

01	02	03	04	05
Area Description	Shut-Off §130.2(c)(1)	Auto-Schedule §130.2(c)(2)	Motion Sensor §130.2(c)(3)	Field Inspector
Site Lighting	Photocontrol	Yes	Yes	<input type="checkbox"/> Pass <input type="checkbox"/> Fail

\*NOTES: Controls with a "\*" require a note in the space below explaining how compliance is achieved.  
 EX: Not permitted by health & safety to be turned off; EXCEPTION 1 to §130.2(c).

**L. LIGHTING POWER ALLOWANCE (per §140.7)**

Table Instructions: Please complete this table for areas using the allowance calculations per §140.7. General Hardscape Allowance is per Table 140.7-A while "Use it or lose it" Allowances are per Table 140.7-B. 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										*Use it or lose it* Allowances (select all that apply)			
Table I (below)										Per Application	Sales Frontage	Ornamental	Per Specific Area
Calculated General Hardscape Lighting Power Allowance per Table 140.7-A (L2 & 3)													
02	03	04	05	06	07	08	09	10					
Area Description	Surface Type	Illuminated Area (ft <sup>2</sup> )	Allowed Density (W/ft <sup>2</sup> )	Area Allowance (Watts)	Perimeter Length (ft)	Allowed Density (W/ft)	Linear Allowance (Watts)	Total General AWA + LWA (Watts)					
Site	Asphalt	31,746	0.025	793.65	2,041	0.25	510.25	1,303.9					
Initial Wattage Allowance for Entire Site (Watts):								350					
Total General Hardscape Allowance (Watts):								1,653.9					

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**DOCUMENTATION AUTHOR'S DECLARATION STATEMENT**

I certify that this Certificate of Compliance documentation is accurate and complete

Documentation Author Name: William V. Norberg, P.E. Documentation Author Signature:

Company: Norberg Engineering Co., Inc. Signature Date: December 6, 2022  
 Address: PO Box 5090 CEA/HERS Certification Identification (if applicable):  
 City/State/Zip: El Dorado Hills, CA 95762 Phone: 916 996-8322

**RESPONSIBLE PERSON'S DECLARATION STATEMENT**

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.  
 4. 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.  
 5. 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: William V. Norberg, P.E. Responsible Designer Signature:

Company: Norberg Engineering Co., Inc. Date Signed: December 6, 2022  
 Address: PO Box 5090 License: E9668  
 City/State/Zip: El Dorado Hills, CA 95762 Phone: 916 996-8322

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**D. EXCEPTIONAL CONDITIONS**

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.  
 Total Hardscape Area in Table A does not match the areas entered in Table I. Please review for compliance.

**E. ADDITIONAL REMARKS**

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

**F. OUTDOOR LIGHTING FIXTURE SCHEDULE**

Table Instructions: For new or altered lighting systems demonstrating compliance with §140.7 (ie Table I has expanded for input), include all luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application in the table below. For altered lighting systems using the Existing Power method per §141.0(b)(2), (ie Table II has expanded for input), include only new luminaires being installed and replacement luminaires being installed as part of the project scope (ie, do not include existing luminaires remaining or existing luminaires being moved).

Designated Wattage:

01	02	03	04	05	06	07	08	09	10
Name or Item Tag	Complete Luminaire Description	Watts per luminaire <sup>1,2</sup>	How Wattage is determined	Total number luminaires <sup>3</sup>	Luminaire Status <sup>4</sup>	Excluded per §140.7(a)	Design Watts	Cutoff Req. ≥ 6,200 initial lumen output §130.2(b) <sup>5</sup>	Field Inspector
D25MQ	Double 2 Square SMQ <input type="checkbox"/> Linear	226	Mfr. Spec <sup>1</sup>	1	New		226	Yes	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
S1SLZ	Single 1 Square SLZ <input type="checkbox"/> Linear	59	Mfr. Spec <sup>1</sup>	9	New		531	NA: <6,200 lumens	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
S25MQ	Single 2 Square SMQ <input type="checkbox"/> Linear	113	Mfr. Spec <sup>1</sup>	2	New		226	Yes	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
S274W	Single 2 Square T4W <input type="checkbox"/> Linear	113	Mfr. Spec <sup>1</sup>	2	New		226	Yes	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
S274FT	Single 2 Square T4FT <input type="checkbox"/> Linear	113	Mfr. Spec <sup>1</sup>	1	New		113	Yes	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
Total Designated Watts: 1,322									

\* 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).

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**J. LIGHTING ALLOWANCE: PER APPLICATION**

This Section Does Not Apply

**K. LIGHTING ALLOWANCE: SALES FRONTAGE**

This Section Does Not Apply

**L. LIGHTING ALLOWANCE: ORNAMENTAL**

This Section Does Not Apply

**M. LIGHTING ALLOWANCE: PER SPECIFIC AREA**

This Section Does Not Apply

**N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)**

This Section Does Not Apply

**O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION**

Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at [https://www.energy.ca.gov/title24/2019standards/2019\\_compliance\\_documents/Nonresidential\\_Documents/NRCC/](https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCC/)

YES	NO	Form/Title	Field Inspector
<input checked="" type="radio"/>	<input type="radio"/>	NRCC-LTO-01-E - Must be submitted for all buildings.	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
<input checked="" type="radio"/>	<input type="radio"/>	NRCC-LTO-02-E - Must be submitted for a lighting control system; or for an Energy Management Control System (EMCS), to be recognized for compliance.	<input type="checkbox"/> Pass <input type="checkbox"/> Fail

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**G. CUTOFF REQUIREMENTS (BUG)**

Table Instructions: Complete this table for fixtures of ≥ 6,200 initial luminaire lumens indicated on Table F as needing to comply with Cutoff Requirements. Maximum lumens can be found in Table 24, Part 11, Section 5.106.8.

01	02	03	04	05	06	07	08	09	10	11	12
Name or Item Tag	Complete Luminaire Description	Backlight Rating <sup>1</sup>		Lighting Type	Uplight Rating <sup>2</sup>		Glare Rating <sup>3</sup>		Field Inspector	Pass	Fail
		Mounting Height from Property Line <sup>1</sup>	Max Allowable Backlight Rating <sup>1</sup>		Max Allowable Uplight Rating <sup>2</sup>	Uplight Rating Per Design	Mounting Height from Property Line <sup>1</sup>	Max Allowable Glare Rating <sup>3</sup>			
D25MQ	Double 2 Squ	> 2 MH from property line	No Limit	B4	Area Lighting	U0	U0	> 2 MH from property line	G3	G2	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
S25MQ	Single 2 Squa	> 2 MH from property line	No Limit	B4	Area Lighting	U0	U0	> 2 MH from property line	G3	G2	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
S274W	Single 2 Squa	> 2 MH from property line	No Limit	B2	Area Lighting	U0	U0	> 2 MH from property line	G3	G2	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
S274FT	Single 2 Squa	> 2 MH from property line	No Limit	B2	Area Lighting	U0	U0	> 2 MH from property line	G3	G2	<input type="checkbox"/> Pass <input type="checkbox"/> Fail

**H. OUTDOOR LIGHTING CONTROLS**

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**P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE**

Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why 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 (ATTCP). For more information visit: <http://www.energy.ca.gov/title24/utcca/providers.html>

YES	NO	Form/Title	Field Inspector
<input checked="" type="radio"/>	<input type="radio"/>	NRCC-LTO-02-A - Must be submitted for all outdoor lighting controls except for alterations where controls area added to ≤ 20 luminaires.	<input type="checkbox"/> Pass <input type="checkbox"/> Fail

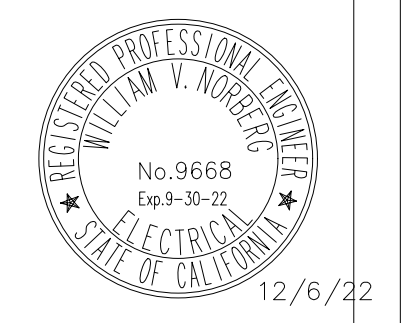
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards> January 2021

dwg. no.  
 AS NOTED

SAM'S AIRPACK PLUS - 7100 GALILEE ROAD  
 ENERGY CALCULATIONS  
 CITY OF ROSEVILLE, CALIFORNIA

scale  
 AS NOTED

date  
 AUGUST 2022



designed \_\_\_\_\_  
 drawn \_\_\_\_\_  
 checked \_\_\_\_\_  
 approved \_\_\_\_\_

datum  
 U.S.G.S.

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**NORBERG**  
 ENGINEERING CO. INC.  
 PO Box 5090  
 El Dorado Hills, California 95762  
 (916)996-8322 norberg@norberg.net