STATE OF CALIFORNIA
# Outdoor Lighting
NRCC-LTO-E (Created 11/19) — CALIFORNIA ENERGY COMMISSION

| | | | |
|---|---|---|---|
| CERTIFICATE OF COMPLIANCE | | | NRCC-LTO-E |
| Project Name: | Goleta West Sanitary District (Administration Building) | Report Page: | Page 3 of 6 |
| Project Address: | UCSB Campus, Parking Lot 32, Santa Barbara, CA 93106 | Date Prepared: | 11/22/2022 |

[1] *FOOTNOTES: Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per §130.0(c)*
[2] *For linear luminaires, wattage should be indicated as W/lf instead of Watts/luminaire. Total linear feet for the luminaire 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*
** Compliance with mandatory cutoff requirements is required for luminaires with initial lumen output ≥ 6,200 unless exempted by §130.2(b).*

## G. CUTOFF REQUIREMENTS (BUG)
*This Section Does Not Apply*

## H. OUTDOOR LIGHTING CONTROLS
*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 (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 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 | |
| | | | | Pass | Fail |
| WALKWAY | Photocontrol | Yes | Yes | ☐ | ☐ |

*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).*

Reset | Add Row | Remove Last

## I. 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 lost 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.*

| 01 | | | | |
|---|---|---|---|---|
| General Hardscape Allowance | "Use it or lose it" Allowances (select all that apply) | | | |
| ☑ | ☐ Per Application | ☐ Sales Frontage | ☐ Ornamental | ☐ Per Specific Area |
| Table I (below) | Table J | Table K | Table L | Table M |

Table Continued



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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.
Selections made in Table O have been changed by the permit applicant. See Table E. Additional Remarks for permit applicant's explanation.

## 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)2L (ie Table N 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).*

**Designed Wattage:**

| 01 | 02 | | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Name or Item Tag | Complete Luminaire Description | | Watts per luminaire[1,2] | How Wattage is determined | Total number luminaires[3] | Luminaire Status[3] | Excluded per §140.7(a) | Design Watts | Cutoff Req. ≥ 6,200 Initial lumen output §130.2(b)[4] | Field Inspector | |
| | | | | | | | | | | Pass | Fail |
| L9 | WALL PACK LED | Linear | 57.8 | Mfr. Spec[1] | 4 | New | ☐ | 231.2 | NA: <6,200 lume | ☐ | ☐ |
| L10 | STEP LIGHT LED | Linear | 4.3 | Mfr. Spec[1] | 10 | New | ☐ | 43 | NA: <6,200 lume | ☐ | ☐ |
| L11 | BOX LED SCONCE | Linear | 11.1 | Mfr. Spec[1] | 18 | New | ☐ | 199.8 | NA: <6,200 lume | ☐ | ☐ |
| L4 | 4" ADJ. DOWN LIGHT | Linear | 20 | Mfr. Spec[1] | 4 | New | ☐ | 80 | NA: <6,200 lume | ☐ | ☐ |
| L12 | LED SCONCE | Linear | 11.1 | Mfr. Spec[1] | 6 | New | ☐ | 66.6 | NA: <6,200 lume | ☐ | ☐ |
| | | | | | | **Total Designed Watts:** | | **620.6** | | | |

* 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).*

Reset | Add Row | Remove Last



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*This document is used to demonstrate compliance with requirements in §110.9, §130.0, §130.2, §140.7, and §141.0(b)2L for outdoor lighting scopes using the prescriptive path.*

## A. GENERAL INFORMATION

| | | | | |
|---|---|---|---|---|
| 01 | Project Location (city) | Santa Barbara | 04 Total Illuminated Hardscape Area (ft²) | 3,386 |
| 02 | Climate Zone | 6 | | |
| 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 | |
| ☐ | LZ-1: Low - Developed Parkland | ☑ LZ-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)2L for alterations.*

My project consists of:

| 01 | 02 | |
|---|---|---|
| | | |
| ☑ 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 |

[1] *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)2L | | | | | | | | | | | | Compliance Results | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 01 | | 02 | | 03 | | 04 | | 05 | | 06 | | 07 | | 08 | 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 §140.7(d)2 | OR | Existing Power §141.0(b)2L | = | **Total Allowed** (Watts) | ≥ | **Total Actual** (Watts) | **07 Must be ≥ 08** |
| (See Table I) | | (See Table J) | | (See Table K) | | (See Table L) | | (See Table M) | | (See Table N) | | | | (See Table F) | |
| 672.35 | + | | + | | + | | + | | OR | | = | 672.35 | ≥ | 620.6 | **COMPLIES** |

| | |
|---|---|
| **Cutoff Compliance (See Table G for Details)** | **Not Applicable** |
| **Controls Compliance (See Table H for Details)** | **COMPLIES** |



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## DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
I certify that this Certificate of Compliance documentation is accurate and complete

| | | | |
|---|---|---|---|
| Documentation Author Name: | Paul D. Halum | Documentation Author Signature: | |
| Company: | eDesign Group | Signature Date: | 11/22/2022 |
| Address: | 2415 E. Camelback Rd., | CEA/ HERS Certification Identification (If applicable): | |
| City/State/Zip: | Phoenix, AZ 85016 | Phone: | 602-560-3344 |

**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.**
**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: | Paul D. Halum | Responsible Designer Signature: | |
| Company : | eDesign Group | Date Signed: | 11/22/2022 |
| Address: | 2415 E. Camelback Rd., | License: | E-20361 |
| City/State/Zip: | Phoenix, AZ 85016 | Phone: | 602-560-3344 |



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## 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/NRCI/*

| YES | NO | Form/Title | Field Inspector | |
|---|---|---|---|---|
| | | | Pass | 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
*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/attcp/providers.html*

| YES | NO | Form/Title | Field Inspector | |
|---|---|---|---|---|
| | | | Pass | Fail |
| ◉ | ○ | NRCA-LTO-02-A - Must be submitted for all outdoor lighting controls except for alterations where controls area added to ≤ 20 luminaires. | ☐ | ☐ |



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Calculated General Hardscape Lighting Power Allowance per Table 140.7-A (LZ 2 & 3)

| 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 |
|---|---|---|---|---|---|---|---|---|
| Area Description | Surface Type | Area Wattage Allowance (AWA) | | | Linear Wattage Allowance (LWA) | | | Total General AWA + LWA (Watts) |
| | | Illuminated Area (ft²) | Allowed Density (W/ft²) | Area Allowance (Watts) | Perimeter Length (lf) | Allowed Density (W/lf) | Linear Allowance (Watts) | |
| WALKWAY | Concrete | 4,945 | 0.03 | 148.35 | 435 | 0.4 | 174 | 322.35 |
| | | | | | | | | 0 |
| | | | | | | | | 0 |

Reset | Add Row | Remove Last

| | |
|---|---|
| **Initial Wattage Allowance for Entire Site (Watts):** | **350** |
| **Total General Hardscape Allowance (Watts):** | **672.35** |

## 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*



GOLETA WEST SANITARY DISTRICT
Your environmental partner since 1954

**UCSB Campus**
Parking Lot 32
Santa Barbara, CA 93106
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ADMINISTRATION BUILDING

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2415 East Camelback Road., Suite 700,
Phoenix, AZ 85016
T 602-560-3344 E: info@edesigngroup.org
Proj. Mgr.: Paul H. Proj. No.: 17-045

| ISSUED | REV | DATE |
|---|---|---|
| DART Submittal | | 15 May 2015 |
| Site Development Plan 1 | | 23 June 2015 |
| 30% Schematic Design | | 30 Oct. 2015 |
| Pre-App & Architectural Board of Review Submittal | | 23 Apr. 2016 |
| Architectural Board of Review | | 25 Jan. 2017 |
| Architectural Board of Review | | 10 OCT 2022 |
| Building Permit Review | | 28 AUG 2023 |

REGISTERED PROFESSIONAL ENGINEER
PAUL D. HALUM
NO. E-20361
EXP. 6-30-2025
ELECTRICAL
STATE OF CALIFORNIA
08-24-23

DRAWING
**TITLE 24 COMPLIANCE - OUTDOOR LIGHTING**

SCALE: NTS
PROJECT NUMBER: 40903
DRAWING NUMBER: **A-E7.1**

Plot Date: