

STATE OF CALIFORNIA
OUTDOOR LIGHTING POWER ALLOWANCES
 CERTIFICATE OF COMPLIANCE
 Outdoor Lighting Power Allowances
 Project Name: Greenfield Park Date Prepared: _____

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A. OUTDOOR LIGHTING POWER ALLOWANCE SUMMARY

1. General Hardship Lighting Power Allowance (Site Total from Section 8 of NRCC-LTO-03-E) 1. 1808

2. Additional Specific, Case 1 or Case 2 Lighting Power Allowances listed in each of these cells shall be identical to total allowed watts determined in Section C.1 to C.4 of NRCC-LTO-03-E.

PER APPLICATION from Section C.1	PER UNIT LENGTH (SALES FRONTAGE) from Section C.2	PER HARDSCAPE AREA (ORNAMENTAL LIGHTING) from Section C.3	PER SPECIFIC AREA from Section C.4
0	0	0	0

3. Sum Total ALLOWED Outdoor Lighting Wattage (add rows 1 and 2) 3. 1808

B. GENERAL HARDSCAPE LIGHTING POWER ALLOWANCE FROM TABLE 140.7-A

Area Wattage Allowance (AWA)		Linear Wattage Allowance (LWA)				Initial Wattage Allowance (IWA)	Total General Hardship Lighting Allowance
A	B	C	D	E	F	G	H
Name of area	Hardship Area	AWA per Square Foot	AWA (B x C)	Perimeter Length of General Hardship	LWA per Linear Foot	LWA (E x F)	IWA (G + H)
PARK	700	0.80	560	680	0.80	468	750
TOTAL							1808

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C. ADDITIONAL "USE IT OR LOSE IT" OUTDOOR LIGHTING POWER ALLOWANCES FOR SPECIFIC APPLICATIONS

1. Additional specific outdoor lighting power allowance shall be the smaller of the allowed lighting power or the actual lighting power used.

2. Use Outdoor Lighting Zone (OLZ) that is documented on page 1 of NRCC-LTO-03-E to calculate the specific wattage allowances.

C-1. WATTAGE ALLOWANCE PER APPLICATION - Table 140.7-B

1. Available only for qualifying locations, which include Building Entrances or Exits; Primary Entrances to Senior Care Facilities, Police Stations, Hospitals, Fire Stations, and Emergency Vehicle Facilities; Drive-Up Windows; Vehicle Service Station Uncovered Fuel Dispenser

2. If more than one luminaire type is used per location, use multiple rows for that location.

A	B	C	D	E	F	G	H	I	J
Name of Location for which allowance is claimed	Number of qualifying locations	Wattage Allowance per qualifying location	Alotted Watts (B x C)	Luminaire Code or Symbol	Luminaire Description	Luminaire Quantity	Watts per luminaire	Design Watts (G x H)	Allowed Watts (smaller of D or I)
Sum total allowance per application on this site:									

C-2. WATTAGE ALLOWANCE PER UNIT LENGTH (Sales Frontage) from Table 140.7-B

1. If more than one luminaire type is used per location, use multiple rows for that location.

A	B	C	D	E	F	G	H	I	J
Name of Location for which allowance is claimed	Linear feet of Sales Frontage	Wattage Allowance per linear foot	Alotted Watts (B x C)	Luminaire Code or Symbol	Luminaire Description	Luminaire Quantity	Watts per luminaire	Design Watts (G x H)	Allowed Watts (smaller of D or I)
Sum total allowance for sales frontage on the site:									

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C-3. WATTAGE ALLOWANCE PER SQUARE FOOT OF HARDSCAPE AREA (Ornamental Lighting) - Table 140.7-B

1. Allowance for the total site illuminated hardcape area. Luminaires qualifying for this allowance shall be rated for 100 watts or less as determined in accordance with Section 130.0(c), and shall be post-top luminaires, lanterns, pendant luminaires, or chandeliers.

2. If more than one luminaire type is used per location, use multiple rows for that location.

A	B	C	D	E	F	G	H	I	J
Name of area for which allowance is claimed	Square feet of Hardscape	Wattage Allowance per square foot	Alotted Watts (B x C)	Luminaire Code or Symbol	Luminaire Description	Luminaire Quantity	Watts per luminaire	Design Watts (G x H)	Allowed Watts (smaller of D or I)
Sum total allowance for ornamental lighting on the site:									

C-4. WATTAGE ALLOWANCE PER SQUARE FOOT OF SPECIFIC AREA - Table 140.7-B

1. Allowances for Building Facades, Outdoor Sales Lots, Vehicle Service Station Canopies, Sales Canopies, Non-sales Canopies; Guard Stations; Student Pick-up/Drop-off zone; Outdoor Dining; Special Security Lighting for Retail Parking and Pedestrian Hardscape.

2. If more than one luminaire type is used per location, use multiple rows for that location.

A	B	C	D	E	F	G	H	I	J
Name of Location for which allowance is claimed	Illuminated Area of Application	Wattage Allowance per square foot	Alotted Watts (B x C)	Luminaire Code or Symbol	Luminaire Description	Luminaire Quantity	Watts per luminaire	Design Watts (G x H)	Allowed Watts (smaller of D or I)
Sum total allowance for specific area on the site:									

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DECLARATION STATEMENT

I, the undersigned, certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Alan J Noelle
 Company: Alan Noelle Engineering
 Address: 1616 Anacapa Street
 City/State/Zip: Santa Barbara, CA 93101

Signature Date: _____
 License: E015175
 Phone: 805-563-5444

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RESPONSIBLE PERSON'S DECLARATION STATEMENT

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- 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 1.4 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.

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A. OUTDOOR LIGHTING SCHEDULE and FIELD INSPECTION ENERGY CHECKLIST

A	B	C		D		E	F	G	H	I	
		Watts per luminaire	Quantity	Watts per luminaire	Quantity						
A1	LED POLE LIGHT	29	0	0	4	116					
A2	LED POLE LIGHT	12	0	0	2	58					
F	LED IN-GRADE	19	0	0	1	12					
INSTALLED WATTS PAGE TOTAL:							186	Enter sum total of all pages (Sum Total INSTALLED Outdoor lighting wattage) into NRCC-LTO-03-E, Page 1			

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The NRCC-LTO-02-E shall be used to document all mandatory outdoor lighting controls that are applicable to the project.

Mandatory Outdoor Lighting Control Declaration Statements

Check all that apply:

- Lighting shall be controlled by self-contained lighting control devices which are certified to the Energy Commission according to the Title 20 Appliance Efficiency Regulations in accordance with §110.9.
- Lighting shall be controlled by a lighting control system or energy management control system in accordance with §110.9. An Installation Certificate shall be submitted in accordance with §130.4(b).
- All lighting controls and equipment shall comply with the applicable requirements in §110.9 and shall be installed in accordance with the manufacturer's instructions in accordance with §130.1.
- Part-Night Outdoor Lighting Controls, as defined in Section 100.1, shall meet the requirements in Section 130.3(b)(5).
- All outdoor incandescent luminaires rated over 100 watts, determined in accordance with Section 130.0(c), shall be controlled by a motion sensor.
- All outdoor luminaires rated for use with lamps greater than 150 lamp watts, determined in accordance with Section 130.0(c), shall comply with Backlight, Uplight, and Glare (collectively referred to as "BUG") in accordance with Section 130.2(b).
- All installed outdoor lighting shall be controlled by a photocontrol or outdoor astronomical time-switch control in accordance with Section 130.2(c)(1).
- All installed outdoor lighting shall be controlled by a photocontrol or outdoor astronomical time-switch control in accordance with Section 130.2(c)(1) and shall be controlled by a photocontrol or outdoor astronomical time-switch control in accordance with Section 130.2(c)(2).
- All installed outdoor lighting, where the bottom of the luminaire is mounted 24 feet or less above the ground, shall be controlled with automatic lighting controls in accordance with Section 130.2(c)(3).
- For Outdoor Sales Frontage, Outdoor Sales Lots, and Outdoor Sales Canopies lighting, an automatic lighting control in accordance with Section 130.2(c)(4).
- For Building Facade, Ornamental Hardscape and Outdoor Dining lighting, an automatic lighting control in accordance with Section 130.2(c)(5).
- Before an occupancy permit is granted for a newly constructed building or area, or a new lighting system serving a building, area, or site is operated for normal use, indoor lighting controls serving the building, area, or site shall be certified as meeting the Acceptance Requirements for Code Compliance in accordance with §130.4(a). Outdoor lighting controls shall comply with the applicable requirements of Section 130.2(c) and Reference Nonresidential Appendix NAT.8

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Schedule of luminaires exempt from the outdoor lighting power requirements in §140.7

Name or Symbol	Description of exempt luminaire in accordance with the exemptions

Schedule of luminaires exempt from the cutoff requirements in §130.2(b)

Name or Symbol	Description of exempt luminaire in accordance with the exemptions

Schedule of luminaires exempt from the outdoor lighting control requirements in §130.2(c)

Name or Symbol	Description of exempt luminaire in accordance with the exemptions

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MANDATORY OUTDOOR LIGHTING CONTROL SCHEDULE and FIELD INSPECTION CHECKLIST

A	B	C						I	J
		D	E	F	G	H			
Location and Application of Luminaire being controlled	Type/Description of Lighting Control (i.e. motion sensor, photocontrol, outdoor astronomical time-switch control, centralized time-based zone lighting control)	# of Units	RECEDES	EXPOSED	EXPOSED	EXPOSED	EXPOSED	EXPOSED	EXPOSED

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Project Information

Phase of Construction: New Construction Addition Alteration

Outdoor Lighting Zone (OLZ): OLZ-1 OLZ-2 OLZ-3 OLZ-4

I have confirmed with the AHJ which OLZ applies to this site. For default lighting zone designations, see Title 24 Part 6, §10-114

LIGHTING COMPLIANCE DOCUMENTS (check box for each document included)

For detailed instructions on the use of this and all Energy Efficiency Standards compliance documents, refer to the Nonresidential Manual published by the California Energy Commission.

NRCC-LTO-01-E Certificate of Compliance
 NRCC-LTO-02-E Outdoor Lighting Controls Certificate of Compliance
 NRCC-LTO-03-E Outdoor Lighting Power Allowance Certificate of Compliance

Summary of Allowed Outdoor Lighting Power

Watts
1. Sum Total ALLOWED Outdoor Lighting Wattage from NRCC-LTO-03-E, page 1 + 1808
2. Sum Total INSTALLED Outdoor Lighting Wattage from NRCC-LTO-03-E, page 3 186

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Declaration of Required Installation Certificates - Declare by checking all Installation Certificates that will be submitted. (Retain copies and verify forms are completed and signed.)

NRCC-LTO-01-E - Must be submitted for all buildings Field Inspector
 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. Field Inspector

Declaration of Required Certificates of Acceptance - Declare by checking all of the Certificates of Acceptance that will be submitted. (Retain copies and verify forms are completed and signed.)

NRCA-LTO-02-A - Must be submitted for outdoor lighting controls. Field Inspector

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ANE
 Alan Noelle Engineering
 1616 Anacapa Street
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 Electrical Engineering Lighting Design

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Approvals/Consultants:

Professional Engineer Seal: Alan J. Noelle, No. E015175, Exp. 6/16

Project: **GREENFIELD PARK**

Third and Apple Greenfield, CA

Sheet Title: **ELECTRICAL EXTERIOR LIGHTING TITLE 24**

Revisions:

Job No: A1459 Sheet: _____
 Date: 3.16.16
 Drawn: TCN
 Checked: A/JN

E13

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