

STATE OF CALIFORNIA
INDOOR LIGHTING POWER ALLOWANCE
CERTIFICATE OF COMPLIANCE
Project Name: ROOSEVELT ELEMENTARY
Date Prepared: 12/23/2015

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance
June 2014

A separate page must be filled out for Conditioned and Unconditioned Spaces. This page is only for:
 CONDITIONED SPACES UNCONDITIONED SPACES

A. SUMMARY TOTALS OF LIGHTING POWER ALLOWANCES
1. Complete Building Method Allowed Watts. Documented in section B of NRCC-LTI-03-E (below on this page)
2. Area Category Method Allowed Watts. Documented in section C-1 of NRCC-LTI-03-E (below on this page)
3. Tailored Method Allowed Watts. Documented in section A of NRCC-LTI-04-E

(a)	(b)
447	447

B. COMPLETE BUILDING METHOD LIGHTING POWER ALLOWANCE

A	B	C	D
TYPE OF BUILDING (From §140.6 Table 140.6-B)	WATTS PER (ft ²)	COMPLETE BLDG. AREA	ALLOWED WATTS
Total Area:			
Total Watts. Enter Total Watts into section A, row 1 (Above on this page)			

C-1 AREA CATEGORY METHOD TOTAL LIGHTING POWER ALLOWANCES (C-2 plus C-3)

Watts
Total from section C-2: 447
Total from section C-3: ZERO
Total Watts. Enter Total Watts into section A, row 2 (Above on this page): 447

STATE OF CALIFORNIA
INDOOR LIGHTING - Lighting Controls
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MANDATORY AND PRESCRIPTIVE INDOOR LIGHTING CONTROL SCHEDULE, PAF CALCULATION, and FIELD INSPECTION CHECKLIST

Lighting Control Schedule	Type/Description of Lighting Control (i.e., occupancy sensor, automatic time switch, dimmer, automatic daylight, etc.)	# of Units	Standards Complying With										PAF Credit Calculation	Field Inspector	
			A	B	C	D	E	F	G	H	I	J			
SEE PLANS	SWITCH	2	X												
SEE PLANS	WALL SWITCH SEN.	2	X												
SEE PLANS	CEILING OCC. SEN.	4		X											

Control Credit PAGE TOTAL (Sum of Column M):

Enter Control Credit total into NRCC-LTI-01-E, Page 1.

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INDOOR LIGHTING - LIGHTING CONTROLS
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CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance
June 2014

Documentation Author's Declaration Statement
1. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: DALE FERRANTI
Signature: Dale Ferranti
Signature Date: 2/12/2016
Address: 1211 MARICOPA HWY. SUITE 250
City/State/Zip: OJAI, CA 93023

Responsible Person's Declaration Statement
1. 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: DALE FERRANTI
Signature: Dale Ferranti
Signature Date: 2/12/2016
Address: 1211 MARICOPA HWY. SUITE 250
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C-2 AREA CATEGORY METHOD GENERAL LIGHTING POWER ALLOWANCE
1. Do not include portable lighting for offices. Portable lighting for offices shall be documented only in section B of NRCC-LTI-01-E.
2. Separately list lighting for each primary function area as in §100.1 of the Standards.

A	B	C	D
AREA CATEGORY (From §140.6 Table 140.6-C)	WATTS PER (ft ²)	AREA (ft ²)	ALLOWED WATTS
SEE PLANS	RESTROOMS	499	299.4
SEE PLANS	CUSTODIAL	247	148.2
TOTALS			746

Enter sum total Area Category allowed watts into section C-1 of NRCC-LTI-03-E (this compliance form)

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C-3 AREA CATEGORY METHOD Additional Lighting Wattage Allowance (from Table 140.6-C Footnotes)

A	B	C	D	E	F	G
Primary Function	Sq Ft or linear ft	Additional Watts Allowed	Wattage Allowance (B x C)	Description(s) and Quantity of Special Luminaire Types in each Primary Function Area	Total Design Watts	ALLOWED WATTS Smaller of D or F
NOT USED						

TOTALS - Enter into TOTAL AREA CATEGORY METHOD ADDITIONAL ALLOWANCES - Section C-1

1. Use linear feet only for additional allowance for white board or chalk board. All other additional Area Category allowances shall use watts per square foot.
2. Additional watts are available only when allowed according to the footnotes on bottom of Table 140.6-C, which include: Specialized task work; Ornamental lighting; Precision commercial and industrial work; Per linear foot of white board or chalk board; Accent, display and feature lighting; and Videoconferencing Studio lighting.
3. Luminaire classification and wattage shall be determined in accordance with §130.0(c) of the Standards.

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STATE OF CALIFORNIA
INDOOR LIGHTING - Lighting Controls
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The NRCC-LTI-02-E shall be used to document all mandatory and prescriptive lighting controls that are applicable to the project.

Mandatory Lighting Control Declaration Statements (Indicate if the measure applies by checking yes or no below.)

YES	NO	Control Requirements
X		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 Section 110.9.
X		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 Section 130.4(b).
X		One or more Track Lighting Integral Current Limiters shall be installed which have been certified to the Energy Commission in accordance with §110.9 and §130.0. Additionally, an Installation Certificate shall be submitted in accordance with Section 130.4(b).
X		A Track Lighting Supplementary Overcurrent Protection Panel shall be installed in accordance with Section 110.9 and Section 130.0. Additionally, an Installation Certificate shall be installed in accordance with Section 130.4(b).
X		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 Section 130.1.
X		All luminaires shall be functionally controlled with manually switched ON and OFF lighting controls in accordance with Section 130.1(a).
X		General lighting shall be separately controlled from all other lighting systems in an area. Floor and wall display, window display, case display, ornamental, and special effects lighting shall each be separately controlled on circuits that are 20 amps or less. When track lighting is used, general, display, ornamental, and special effects lighting shall each be separately controlled; in accordance with Section 130.1(a).
X		The general lighting of any enclosed area 100 square feet or larger, with a connected lighting load that exceeds 0.5 watts per square foot shall meet the multi-level lighting control requirements in accordance with Section 130.1(b).
X		All installed indoor lighting shall be equipped with controls that meet the applicable Shut-OFF control requirements in Section 130.1(c).
X		Lighting in all Daylit Zones shall be controlled in accordance with the requirements in Section 130.1(d) and daylight zones are shown on the plans.
X		Lighting power in buildings larger than 10,000 square feet shall be capable of being automatically reduced in response to a Demand Responsive Signal in accordance with Section 130.1(e).

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 CONDITIONED SPACE UNCONDITIONED SPACE

C. INDOOR LIGHTING SCHEDULE and FIELD INSPECTION ENERGY CHECKLIST

Luminaire Schedule	Installed Watts				Location	Field Inspector
	A	B	C	D		
L1 4FT LED SURF 25W DRVR	25	0	0	11	SEE PLANS	
S 4FT LED SURF 28W DRVR	28	0	0	2	SEE PLANS	
V 2FT LED SURF 114W DRIVER	14	0	0	2	SEE PLANS	

INSTALLED WATTS PAGE TOTAL: 359

Enter sum total of all pages into NRCC-LTI-01-E, Page 2

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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.
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Climate Zone: 6
Conditioned Floor Area: 746 SQ. FT.

General Information
Building Type: Nonresidential High-Rise Residential Hotel/Motel
 Schools Relocated Public Schools Conditioned Spaces Unconditioned Spaces
Phase of Construction: New Construction Addition Alteration
Method of Compliance: Complete Building Area Category Tailored

LIGHTING COMPLIANCE DOCUMENTS (select yes 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.

YES	NO	FORM	TITLE
X		NRCC-LTI-01-E	Certificate of Compliance. All Pages required on plans for all submittals.
X		NRCC-LTI-02-E	Lighting Controls, Certificate of Compliance, and PAF Calculation. All Pages required on plans for all submittals.
X		NRCC-LTI-03-E	Indoor Lighting Power Allowance
X		NRCC-LTI-04-E	Tailored Method Worksheets
X		NRCC-LTI-05-E	Line Voltage Track Lighting Worksheets

Summary of Allowed Lighting Power
Conditioned and Unconditioned space Lighting must not be combined for compliance

Indoor Lighting Power for Conditioned Spaces	Watts	Indoor Lighting Power for Unconditioned Spaces	Watts
1. Installed Lighting NRCC-LTI-01-E, page 4	+	Installed Lighting NRCC-LTI-02-E, page 1	359
2. PORTABLE ONLY FOR OFFICES NRCC-LTI-01-E, page 3	-		
3. Minus Lighting Control Credits - NRCC-LTI-02-E, page 1	-	Minus Lighting Control Credits - NRCC-LTI-02-E, page 1	ZERO
4. Adjusted Installed Lighting Power (row 1 plus row 2 minus row 3)	=	Adjusted Installed Lighting Power (row 1 minus row 3)	359

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5. Complies ONLY if Installed < Allowed
6. Allowed Lighting Power Conditioned NRCC-LTI-03-E, page 1
Unconditioned NRCC-LTI-03-E, page 1
447

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

YES	NO	Form/Title	Field Inspector
X		NRCC-LTI-01-E - Must be submitted for all buildings	
X		NRCC-LTI-02-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.	
X		NRCC-LTI-03-E - Must be submitted for a line-voltage track lighting integral current limiter, or for a supplementary overcurrent protection panel used to energize only line-voltage track lighting, to be recognized for compliance.	
X		NRCC-LTI-04-E - Must be submitted for two interlocked systems serving an auditorium, a convention center, a conference room, a multipurpose room, or a theater to be recognized for compliance.	
X		NRCC-LTI-05-E - Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance.	
X		NRCC-LTI-06-E - Must be submitted for additional wattage installed in a video conferencing studio to be recognized for compliance.	

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.)

YES	NO	Form/Title	Field Inspector
X		NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	
X		NRCA-LTI-03-A - Must be submitted for automatic daylight controls.	
X		NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls.	

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A. INDOOR LIGHTING SCHEDULE and FIELD INSPECTION ENERGY CHECKLIST
1. The actual indoor lighting power listed on this page and on the next page includes all installed permanent and planned portable lighting systems.
2. When Complete Building Method is used for compliance, list each different type of luminaire on separate lines.
3. When Area Category Method or Tailored Method is used for compliance, list each different type of luminaire by each different function area on separate lines
4. Also include track lighting in schedule, and submit the track lighting compliance form (NRCC-LTI-05-E) when line-voltage track lighting is installed.

B. Installed Portable Luminaires in Offices - Exception to Section 140.6(a)
1. This section shall be filled out ONLY for portable luminaires in offices (As defined in §100.1). All other planned portable luminaires shall be documented on next page of this compliance form.
2. This section is to determine if greater than 0.3 watts of portable lighting is planned for any office
3. Fill out a separate line for each different office. Small offices that are typical (having the same general and portable lighting) may be grouped together. This allowance shall not be traded between offices having different lighting systems.

Office Portable Luminaire	Office Installed Portable Luminaire Watts Per Square Foot	Office Location	Field Inspector
A	B	C	D
Complete Luminaire Description (i.e., LED under cabinet, furniture mounted direct/indirect)	Watts per Luminaire	Identify office area in which these portable luminaires are installed	

Total installed portable luminaire watts that are greater than 0.3 watts per square foot per office: Enter sum total of all pages into NRCC-LTI-01-E, Page 1

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Signature: Dale Ferranti
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IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
APPL. 03-106979
EXE. 15-6
AC: [initials] RES: [initials] SS: [initials]
DATE: 7-13-16
PTN: 63321-204

ARCHITECT
S
INC.
1601 NEW STINE ROAD, SUITE 280
BAKERSFIELD, CA 93309
PH: (661) 397-4377
FAX: (661) 397-4378
WWW.SCARCHITECT.COM

STEPHEN J. COLOM, N.CARB., NIA, LEED AP BD+C

INDOOR TITLE 24 DOCUMENTATION

Know what's below.
Call before you dig.
FERRANTI ENGINEERING
CONSULTING ELECTRICAL ENGINEERS
1211 MARICOPA HWY, SUITE 250
OJAI, CA 93023
(805) 705-4772
DALEFERRANTI@LIVE.COM

PERMIT SUBMITTAL

JOB NO.
DRAWN BY: G.GARCIA
CHECKED BY: D.FERRANTI
DATE: 2/12/2016

E
1.2
OF 2 SHEETS

CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK. REPORT DISCREPANCIES TO THE ARCHITECT. ALL CONSTRUCTION SHALL CONFORM TO THE C.B.C.

SITE IMPROVEMENTS FOR MODULAR CLASSROOM
ROOSEVELT ELEMENTARY SCHOOL
FOR
BAKERSFIELD CITY SCHOOL DISTRICT
2324 VERDE STREET
BAKERSFIELD, KERN COUNTY, CALIFORNIA, 93306