

Indoor Lighting

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E	
<i>This document is used to demonstrate compliance with requirements in 110.9, 110.12(c), 130.0, 130.1, 140.6 and 141.0(b)2 for indoor lighting scopes using the prescriptive path for nonresidential and hotel/motel occupancies. It is also used to document compliance with requirements in 160.5, 170.2(e) and 180.2(b)4 for indoor lighting scopes using the prescriptive path for multifamily occupancies. Multifamily includes dormitory and senior living facilities.</i>			
Project Name: Nonresidential Sample Building		Report Page: (Page 1 of 9)	
Project Address: 1234 Main St.		Date Prepared: 10/31/2023	

A. GENERAL INFORMATION					
01	Project Location (city)	Sacramento	04	Total Conditioned Floor Area (ft²)	4,480
02	Climate Zone	12	05	Total Unconditioned Floor Area (ft²)	1,200
03	Occupancy Types Within Project (select all that apply):		06	# of Stories (Habitable Above Grade)	2
• Office • Parking Garage • Restaurant • Retail					

B. PROJECT SCOPE					
<i>This table includes any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.6 / 170.2(e) or 141.0(b)2 / 180.2(b)4 for alterations.</i>					
Scope of Work		Conditioned Spaces		Unconditioned Spaces	
01		02		03	
My Project Consists of (check all that apply):		Calculation Method		Area (ft²)	
<input checked="" type="checkbox"/> New Lighting System		Area Category Method		4480	
<input type="checkbox"/> New Lighting System - Parking Garage					
Total Area of Work (ft²)		4480		1200	

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C. COMPLIANCE RESULTS												
If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance.												
Lighting in conditioned and unconditioned spaces must not be combined for compliance per 140.6(b)1 / 170.2(e)	Allowed Lighting Power per 140.6(b) / 170.2(e) (Watts)						≥	Adjusted Lighting Power per 140.6(a) / 170.2(e) (Watts)				Compliance Results
	01	02	03	04	=	05		06	07	=	08	09
	Complete Building 140.6(c)1	Area Category 140.6(c)2 / 170.2(e)4	Area Category Additional 140.6(c)2G / 170.2(e)4Av (+)	Tailored 140.6(c)3 / 170.2(e)4B (+)		Total Allowed (Watts)		Total Designed (Watts)	Adjustments		Total Adjusted (Watts) *Includes Adjustments	05 must be >= 08 140.6 / 170.2(e)
									PAF Lighting Control Credits 140.6(a)2 / 170.2(e)1B (-)			
	(See Table I)	(See Table I)	(See Table J)	(See Table K)		(See Table F)		(See Table P)				
Conditioned		2,944	0		=	2,944	≥	2,036	0	=	2036	COMPLIES
Unconditioned		120	0		=	120	≥	124	0	=	124	DOES NOT COMPLY
Controls Compliance (See Table H for Details)												COMPLIES
Rated Power Reduction Compliance (See Table Q for Details)												

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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F. INDOOR LIGHTING FIXTURE SCHEDULE

This table includes all planned permanent and portable lighting other than dwelling unit/ hotel/ motel room lighting. Multifamily dwelling unit and hotel/motel room lighting is documented in Table T. If using Table T to document lighting in multifamily common use areas providing shared provisions for living, eating, cooking or sanitation, those luminaires are not included here.

Designed Wattage: Conditioned Spaces

01	02	03	04	05	06	07	08	09	10	
Name or Item Tag	Complete Luminaire Description	Modular (Track) Fixture	Small Aperture & Color Change ¹	Watts per luminaire ²	How is Wattage determined	Total Number of Luminaires	Excluded per 140.6(a)3 / 170.2(e)2C	Design Watts	Field Inspector	
									Pass	Fail
A-1	Suspended LED	No	NA	28	Mfr. Spec	27	No	756	<input type="checkbox"/>	<input type="checkbox"/>
D-1	LED Can	No	NA	12	Mfr. Spec	10	No	120	<input type="checkbox"/>	<input type="checkbox"/>
F-1	Suspended LED	No	NA	28	Mfr. Spec	20	No	560	<input type="checkbox"/>	<input type="checkbox"/>
F-2	Standard Track	Yes	NA	300	Mfr. Spec	2	No	600	<input type="checkbox"/>	<input type="checkbox"/>
FW-1	75w Low Voltage Halogen	No	NA	80	Mfr. Spec	8	Exempt	---	<input type="checkbox"/>	<input type="checkbox"/>
Total Designed Watts: CONDITIONED SPACES								2,036		

Designed Wattage: Unconditioned Spaces

01	02	03	04	05	06	07	08	09	10	
Name or Item Tag	Complete Luminaire Description	Modular (Track) Fixture	Small Aperture & Color Change ¹	Watts per luminaire ²	How is Wattage determined	Total Number of Luminaires	Excluded per 140.6(a)3 / 170.2(e)2C	Design Watts	Field Inspector	
									Pass	Fail
F-3	2 Lamp 4 ft T8 Rapid Start Elec	No	NA	62	Mfr. Spec	2	No	124	<input type="checkbox"/>	<input type="checkbox"/>
Total Designed Watts: UNCONDITIONED SPACES								124		

¹FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per 140.6(a)4B / 170.2(e)2D is adjusted to be 75% /80% of their rated wattage. Table F automatically makes this adjustment, the permit applicant should enter full rated wattage in column 05.

²Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b). Wattage used must be the maximum rated for the luminaire, not the lamp.

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G. MODULAR LIGHTING SYSTEMS

This table calculates wattage for modular lighting systems/ track lighting fixtures indicated on Table F and transfers wattage to Table F.

01	02	03										04			
Name or Item Tag	Complete Track Description	Calculation Method per 130.0(c)6										Track Wattage			
F-2	Standard Track	<input checked="" type="checkbox"/>	i Installed Luminaires vs Default 30 W/ft	<input type="checkbox"/>	ii Current Limiter	<input type="checkbox"/>	iii Overcurrent Protection Panel	<input type="checkbox"/>	iv Power supplied by driver, power supply or transformer ¹						
		Number of luminaires in system		x	Rated Watts per luminaire	=	Total Watts	OR	Linear ft of track or busway		x	Default W/LF 30	=	Total Watts	300
									10			30		300	

¹FOOTNOTE: For power-over-Ethernet lighting systems, power provided to installed non-lighting devices may be subtracted from the total power rating of the power-over-Ethernet system.

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

This table includes lighting controls for conditioned and unconditioned spaces.

Building Level Controls

01	02	03	
Mandatory Demand Response 110.12(c)	Shut-off controls 130.1(c) / 160.5(b)4C	Field Inspector	
		Pass	Fail
Required >= 4,000W subject to multilevel	Whole Building Auto Time Switch	<input type="checkbox"/>	<input type="checkbox"/>

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H. INDOOR LIGHTING CONTROLS (Not including PAFs)									
Area Level Controls									
04	05	06	07	08	09	10	11	12	
Area Description	Complete Building or Area Category Primary Function Area	Manual Area Controls 130.1(a) / 160.5(b)4A	Multi-Level Controls 130.1(b) / 160.5(b)4B	Shut-Off Controls 130.1(c) // 160.5(b)4C	Primary/Sky lit Daylighting 130.1(d) / 160.5(b)4D	Secondary Daylighting 130.1(d) / 160.5(b)4D	Interlocked Systems 140.6(a)1/ 170.2(e)2A	Field Inspector	
								Pass	Fail
Offices	Office (<=250 square feet)	Readily Accessible	Dimmer	See Building Level	Included	Included	No	<input type="checkbox"/>	<input type="checkbox"/>
Retail Space	Retail Merchandise Sales	Readily Accessible	Dimmer	See Building Level	Included	Included	No	<input type="checkbox"/>	<input type="checkbox"/>
Restaurant	Dining - Bar/Fine	Readily Accessible	Dimmer	See Building Level	Included	Included	No	<input type="checkbox"/>	<input type="checkbox"/>
					13				
					Plan Sheet Showing Daylit Zones:				
					Sheet L1.1				

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS						
Each area complying using the Complete Building or Area Category Methods per 140.6(b) are included in this table. Column 06 indicates if additional lighting power allowances per 140.6(c) or adjustments per 140.6(a) are being used .						
Conditioned Spaces						
01	02	03	04	05	06	
Area Description	Complete Building or Area Category Primary Function Area	Allowed Density (W/ft²)	Area (ft²)	Allowed Wattage (Watts)	Additional Allowance / Adjustment	
					Area Category	PAF
Retail Zone	Retail Merchandise Sales	0.95	1,280	1,216	No	No
Office Zone	Office (>250 square feet)	0.6	1,920	1,152	No	No
Restaurant Zone	Dining - Bar/Fine	0.45	1,280	576	No	No
TOTALS:			4,480	2,944	See Tables J, or P for detail	

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I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS						
Unconditioned Spaces						
01	02	03	04	05	06	
Area Description	Complete Building or Area Category Primary Function Area	Allowed Density (W/ft²)	Area (ft²)	Allowed Wattage (Watts)	Additional Allowance / Adjustment	
					Area Category	PAF
Parking Garage	Parking Garage - Parking Area & Ramps	0.1	1,200	120	No	No
TOTALS:			1,200	120	See Tables J, or P for detail	

J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM
<i>This section does not apply to this project.</i>

K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE
<i>This section does not apply to this project.</i>

L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY
<i>This section does not apply to this project.</i>

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING
<i>This section does not apply to this project.</i>

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED DECORATIVE /SPECIAL EFFECTS
<i>This section does not apply to this project.</i>

O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE
<i>This section does not apply to this project.</i>

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P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))
<i>This section does not apply to this project.</i>

Q. RATED POWER REDUCTION COMPLIANCE FOR ONE-FOR-ONE ALTERATIONS
<i>This section does not apply to this project.</i>

R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS
<i>This section does not apply to this project.</i>

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)
<i>This section does not apply to this project.</i>

T. DWELLING UNIT LIGHTING
<i>This section does not apply to this project.</i>

U. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION
<i>Selections have been made based on information provided in this document. If any selections 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</i>
Form/Title
NRCI-LTI-E - Must be submitted for all buildings

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V. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in this document. If any selections have been changed by the permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and any with "-A" in the form name must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: <http://www.energy.ca.gov/title24/attcp/providers.html>

Form/Title	Systems/Spaces To Be Field Verified
NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	Whole Building Time Switch;
NRCA-LTI-03-A - Must be submitted for automatic daylight controls.	Offices; Retail Space; Restaurant;
NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls.	Whole Building Demand Response;

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

Documentation Author Name:	Documentation Author Signature:
Company: DEBUG	Signature Date: 2023-10-31
Address:	CEA/ HERS Certification Identification (if applicable):
City/State/Zip:	Phone:

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: Alan Lux	Responsible Designer Signature:
Company: Luminaire Design	Date Signed: 2023-10-31
Address: 3030 Pine	License: KS-3345
City/State/Zip: Los Altos CA 92334	Phone: (916) 555-4321