

Indoor Lighting

NRCC-LTI-E (Created 01/20)

Nonresidential forms can be found here:
energycodeace.com/nonresidentialforms

Before starting the NRCC-LTI-E on a project, make sure to use a compatible PDF viewer, such as Adobe Acrobat Reader 2017.



CERTIFICATE OF COMPLIANCE

NRCC-LTI-E

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.

Project Name: NRCC-LTI-E New Retail Lighting Report Page: Page 1 of 8
 Project Address: 1234 Any Pl Date Prepared: 9/25/2020

A. GENERAL INFORMATION

Selections in Tables A and B will trigger other applicable tables throughout this form.

Hover over these ? in the NRCC dynamic forms to get helpful tips when filling out the form.

01	Project Location (city)	San Jose	04	Total Conditioned Floor Area (ft ²)	5,080
02	Climate Zone	4	05	Total Unconditioned Floor Area (ft ²)	0
03	Occupancy Types Within Project (select all that apply):		06	# of Stories (Habitable Above Grade)	1
<input checked="" type="checkbox"/>	Office	<input checked="" type="checkbox"/>	Retail	<input type="checkbox"/>	Warehouse
<input type="checkbox"/>	Parking Garage	<input type="checkbox"/>	High-Rise Residential	<input type="checkbox"/>	Relocatable
		<input type="checkbox"/>	Hotel/Motel	<input type="checkbox"/>	School
		<input type="checkbox"/>	Healthcare	<input type="checkbox"/>	Other (write in):
				<input checked="" type="checkbox"/>	Support Areas

B. PROJECT SCOPE

Table Instructions: Include any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in [§140.6](#) or [§141.0\(b\)2](#) for alterations. WARNING: Changing the Calculation Method in this table will result in the deletion of data previously input. If you need to change the calculation method, please open a new form or use "Save As".

Scope of Work	Conditioned Spaces		Unconditioned Spaces	
01	02	03	04	05
My Project Consists of (check all that apply):	Calculation Method	Area (ft ²)	Calculation Method	Area (ft ²)
<input checked="" type="checkbox"/> New Lighting System	Area Category	5,080		
	Add Parking Garage-Complete Bldg Method		Remove Parking Garage	
<input type="checkbox"/> Altered Lighting System	Add Altered Lighting System		Remove Last Altered System	
	Total Area of Work (ft ²)		5,080	

C. COMPLIANCE RESULTS

Table C will be consistent on all forms and shows what the compliance results are as the form is filled out.

Table Instructions: 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 .	Allowed Lighting Power per §140.6(b) (Watts)					=	Adjusted Lighting Power per §140.6(a) (Watts)			Compliance Results
	01	02	03	04	05		06	07	08	
	Complete Building §140.6(c)1 (See Table I)	Area Category §140.6(c)2 (See Table I)	Area Category Additional §140.6(c)2G (+) (See Table J)	Tailored §140.6(c)3 (+) (See Table K)	Total Allowed (Watts)		Total Designed (Watts) (See Table F)	Adjustments PAF Control Credits §140.6(a)2 (-) (See Table P)	Total Adjusted (Watts) *Includes Adjustments	
Conditioned:		4,984	960		= 5,944	≥	3,749		= 3,749	COMPLIES
Unconditioned:					=	≥			=	

Table Continued

Grey cells mean these Tables do not apply to the project.

Compliance at the project level must be verified in column 09 at the end of completing this form in order to comply with the Energy Code.

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Controls Compliance (See Table H for Details)	COMPLIES with Exceptional Conditions
Rated Power Reduction Compliance (See Table Q for Details)	Not Applicable

D. EXCEPTIONAL CONDITIONS ?

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

Track Lighting has been included in this project, details are provided in Table G.
 Table H Indoor Lighting Controls Permit Applicant Notes:
 Office: LPD is <0.5 w/sf
 Restroom: EXCEPTION 2 to Section 130.1(b): Restrooms
 Corridor: Area is < 100 ft2 and LPD is <0.5 w/sf

Exceptional Conditions will populate here based on selections made in the following tables. Some of these notes are errors for the permit applicant to resolve in the form, while some, like the ones shown here, are for the plans examiner.

E. ADDITIONAL REMARKS ?

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

Place any comments for the Building Official here.

F. INDOOR LIGHTING FIXTURE SCHEDULE ?

Table Instructions: Include all permanent designed lighting and all portable lighting in offices.

There are code section links throughout the dynamic form for you to reference the code requirements being documented.

Designed Wattage: Conditioned Spaces									10	
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 Wattage is determined	Total number luminaires	Exempt per §140.6(a)3	Design Watts	Field Inspector	
									Pass	Fail
L1	42 Watt LED Troffer	<input type="checkbox"/>	<input type="checkbox"/>	42	Mfr. Spec ²	72	<input type="checkbox"/>	3,024	<input type="checkbox"/>	<input type="checkbox"/>
L2	24' LED Track Lighting	<input checked="" type="checkbox"/>	<input type="checkbox"/>	600	See Table G	1	<input type="checkbox"/>	600	<input type="checkbox"/>	<input type="checkbox"/>
L3	25 Watt LED Surface Mount	<input type="checkbox"/>	<input type="checkbox"/>	25	Mfr. Spec ²	5	<input type="checkbox"/>	125	<input type="checkbox"/>	<input type="checkbox"/>
Total Designed Watts CONDITIONED SPACES:								3,749		
							Reset	Add Row	Remove Last	

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

² Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per [§130.0\(c\)](#) Wattage used must be the maximum rated for the luminaire, not the lamp.

Table Continued

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G. MODULAR LIGHTING SYSTEMS

Table Instructions: Complete this table for track lighting fixtures indicated on Table F. Luminaire classification and power should be per [§130.0\(c\)6](#).

01	02	03						04					
Name or Item Tag	Complete Track Description	Calculation Method per §130.0(c)6						Track Wattage					
L2	24' LED Track Lighting	<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					
Look out for footnotes as they may provide more clarity when filing out the form.		Number of luminaires in system	x	Rated Watts per luminaire	=	Total Watts	OR	Linear ft of track or busway	x	Default W/LF	=	Total Watts	600
		16		4.5		72		20		30		600	

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)

Table Instructions: Please include lighting controls for conditioned and unconditioned spaces in this table. 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.

Building Level Controls

01	02	03	
Mandatory Demand Response §110.12(c)	Shut-Off Controls §130.1(c)	Field Inspector	
Not Required ≤ 10,000 SF	See Area/Space Level Controls	Pass	Fail
		<input type="checkbox"/>	<input type="checkbox"/>

Area Level Controls

04	05	06	07	08	09	10	11	12	
Area Description	Complete Building or Area Category Primary Function Area	Area Controls §130.1(a)	Multi-Level Controls §130.1(b)	Shut-Off Controls §130.1(c)	Primary/Skylit Daylighting §130.1(d)	Secondary Daylighting §140.6(d)	Interlocked Systems §140.6(a)1	Field Inspector	
								Pass	Fail
Retail	Retail Merchandise Sales, Wholesale Showroom	Manual ON/OFF	Dimmer	Auto Timeswitch	Included	Included	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Office	Office (≤ 250 square feet)	Manual ON/OFF	Exempt*	Partial On*	NA	NA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Lighting controls can be documented room by room, or similar room/ function areas can be grouped together if their lighting controls are the same.

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Restroom	Restroom	Manual ON/ OFF	Exempt*	Occ. Sensor	NA	NA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Corridor	Corridor	Manual ON/ OFF	Exempt*	Occ. Sensor	NA	NA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
*NOTES: Controls with a * require a note in the space below explaining how compliance is achieved. EX: Conference 1: Primary/Skylight Daylighting: Exempt because less than 120 watts of general lighting; EXCEPTION 1 to §130.1(d)2							13		
							Plan Sheet Showing Daylit Zones:		
							L1		
Office	LPD is <0.5 w/sf								
Restroom	EXCEPTION 2 to Section 130.1(b): Restrooms								
Corridor	Area is < 100 ft2 and LPD is <0.5 w/sf								
Use this space to explain the exemptions that apply.					Reset	Add Row	Remove Last		

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS ?

Table Instructions: Complete the table for each area complying using the Complete Building or Area Category Methods per §140.6(b). Indicate if additional lighting power allowances per §140.6(c) or adjustments per §140.6(a) are being used.

Depending on what is selected here, Tables J and P will expand.

01	02	03	04	05	06	
Area Description	Complete Building or Area Category Primary Function Area	Allowed Density (W/ft ²)	Area (ft ²)	Allowed Wattage (Watts)	Additional Allowances / Adjustment	
					Area Category	PAF
Retail Space	Retail Merchandise Sales, Wholesale Showroom	1	4,800	4,800	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Office	Office (≤ 250 square feet)	0.7	120	84	<input type="checkbox"/>	<input type="checkbox"/>
Restroom	Restroom	0.65	80	52	<input type="checkbox"/>	<input type="checkbox"/>
Corridor	Corridor	0.6	80	48	<input type="checkbox"/>	<input type="checkbox"/>
TOTAL:			5,080	4,984	See Tables J or P for detail	
				Reset	Add Row	Remove Last

Lighting power allowances can be documented room by room, or rooms with the same function areas can be grouped together to calculate the allowed wattages. If grouping, it needs to be done so that it's reasonably able to be reviewed against the floorplans by the plans examiner. If Additional Allowances/ Adjustments are taken in column 06, those areas must be separated out from other similar areas.

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J. ADDITIONAL LIGHTING ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM*Table Instructions: Please complete the table for all areas indicated in Table I as using an additional allowance per the Area Category Method in [Table 140.6-C](#).***Conditioned Spaces**

01	02	03	04	05	06	07	08	09	10
Area Description	Primary Function Area	Applicable Qualifying Lighting System from Table 140.6-C	Allowed Density (W/ft ²) or (W/lf)	Ltg Area, Length or ATM/Mirror (ft ² , lf or #)	Extra Allowance (Watts)	Luminaire Name or Item Tag	Watts per Luminaire	Number of Luminaires	Total Design Watts
Retail Space	Retail Merchandise Sales, Wholesale Showroom	Accent/Display	0.2	4,800	960	L2	600	2	1,200
						Add Luminaire	Remove Last		
Total Design Watts:	Calculated Allowance (Watts):	Total Additional Allowance for this area:		Add System					
1,200	960	960		Spaces indicated in Table I. as using the Additional Allowance will be documented here. Only some Primary Function Areas include Qualifying Lighting Systems that have additional allowances. If the dropdown in column 03 is blank for your Function Area, check Table 140.6-C to see if there is a Qualifying Lighting System.					
11									
Total Additional Allowance (Watts) CONDITIONED SPACES:		960							

K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE*This Section Does Not Apply***L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY***This Section Does Not Apply***M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING***This Section Does Not Apply***N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED ORNAMENTAL/SPECIAL EFFECTS***This Section Does Not Apply***O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE***This Section Does Not Apply*

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P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))*This Section Does Not Apply***Q. RATED POWER REDUCTION COMPLIANCE FOR ALTERATIONS***This Section Does Not Apply***R. 80% LIGHTING POWER FOR ALTERATIONS - CONTROLS EXCEPTIONS***This Section Does Not Apply***S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)***This Section Does Not Apply***T. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION**

Check to make sure the inputs made in this form have triggered the correct NRCI forms to be filled out.



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://ww2.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

YES	NO	Form/Title	Field Inspector	
			Pass	Fail
<input checked="" type="radio"/>	<input type="radio"/>	NRCI-LTI-01-E - Must be submitted for all buildings	<input type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/>	<input checked="" type="radio"/>	NRCI-LTI-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"/>	<input type="checkbox"/>
<input type="radio"/>	<input checked="" type="radio"/>	NRCI-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.	<input type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/>	<input checked="" type="radio"/>	NRCI-LTI-05-E - Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance.	<input type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/>	<input checked="" type="radio"/>	NRCI-LTI-06-E - Must be submitted for additional wattage installed in a video conferencing studio to be recognized for compliance.	<input type="checkbox"/>	<input type="checkbox"/>

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U. 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 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>

YES	NO	Form/Title	Field Inspector	
			Pass	Fail
<input checked="" type="radio"/>	<input type="radio"/>	NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="radio"/>	<input type="radio"/>	NRCA-LTI-03-A - Must be submitted for automatic daylight controls.	<input type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/>	<input checked="" type="radio"/>	NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls.	<input type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/>	<input checked="" type="radio"/>	NRCA-LTI-05-A - Must be submitted for institutional tuning power adjustment factor (PAF).	<input type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/>	<input checked="" type="radio"/>	NRCA-ENV-03-F - Must be submitted for daylighting design power adjustment factors (PAF).	<input type="checkbox"/>	<input type="checkbox"/>

Check to make sure the inputs made in this form have triggered the correct NRCA forms to be filled out.

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Print to PDF to then sign a static copy of the form and send to the client. Be sure to save a copy of the dynamic form if any edits need to be made.

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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:	Signature Date:
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:	Responsible Designer Signature:
Company :	Date Signed:
Address:	License:
City/State/Zip:	Phone:

Add Responsible Person

For more training on the NRCC forms, visit Energy Code Ace for Decoding Talks: energycodeace.com/decoding-talks

2019 Dynamic Form Introduction Series: youtube.com/playlist?list=PLVH9EjkDaO5IMvxfVJg2oDwq2B3wljTQ1

Decoding NRCC: Let's Talk 2019 Nonresidential Dynamic Forms Handout and Recording: energycodeace.com/content/training-ace/courseId=35705