

STATE OF CALIFORNIA

Indoor Lighting

NRCC-LTI-E (Created 11/19)

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

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) for indoor lighting scopes using the prescriptive path.

Project Name: La Mirada High School New Football Stadium - BUILDING W

Report Page: Page 1 of 7

Project Address: 13520 Adelfa Dr.

Date Prepared: 2020-02-25

A. GENERAL INFORMATION

01 Project Location (city)

La Mirada

04 Total Conditioned Floor Area (ft²)

02 Climate Zone

9

05 Total Unconditioned Floor Area (ft²)

03 Occupancy Types Within Project (select all that apply):

06 # of Stories (Habitable Above Grade)

☐ Office

☐ Retail

☐ Warehouse

☐ Hotel/Motel

☒ School

☐ Support Areas

☐ Parking Garage

☐ High-Rise Residential

☐ Relocatable

☐ Healthcare

☐ Other (write in):

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) 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

01

02

03

04

05

My Project Consists of (check all that apply):

Calculation Method

Area (ft²)

Calculation Method

Area (ft²)

☒ New Lighting System

☐ Altered Lighting System

Total Area of Work (ft²)

1,958

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.

Lighting in conditioned and unconditioned spaces must not be combined for compliance per §140.6(b).

01

02

03

04

05

06

07

08

09

Complete Building §140.6(c)1

Area Category §140.6(c)2

Area Category Additional §140.6(c)2G (+)

Tailored §140.6(c)3 (+)

= Total Allowed (Watts)

≥

Total Designed (Watts)

PAF Control Credits §140.6(a)2 (+)

= Total Adjusted (Watts) \*Includes Adjustments

05 Must be ≥ 08 §140.6

Conditioned:

1,362.75

=

1,362.75

≥

1,810

=

1,810

DOES NOT COMPLY

Unconditioned:

=

≥

=

Table Continued

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards>

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Report Page: Page 4 of 7

Project Address: 13520 Adelfa Dr.

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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 Allowances / Adjustment

Area Category

PAF

TEAM ROOM

Classroom, Lecture, Training, Vocational

0.7

914

639.8

RESTROOM

Restroom

0.65

600

390

ELECTRIC ROOM

Electrical, Mechanical, Telephone Rooms

0.4

48

19.2

STORAGE

Commercial and Industrial Storage

0.6

103

61.8

JANITOR

All Other Space Types

0.4

48

19.2

CONCESSIONS

Kitchen, Food Preparation

0.95

245

232.75

TOTAL:

1,958

1,362.75

See Tables J or P for detail

J. ADDITIONAL LIGHTING ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM

This Section Does Not Apply

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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Project Name: La Mirada High School New Football Stadium - BUILDING W

Report Page: Page 7 of 7

Project Address: 13520 Adelfa Dr.

Date Prepared: 2020-02-25

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete

Documentation Author Name:

ANTONIO ROQUE

Documentation Author Signature:

Company:

TURPIN & RATTAN ENGINEERING INC.

Signature Date:

2020-02-25

Address:

2441 HONOLULU AVE. SUITE 200

CEA/ HERS Certification Identification (if applicable):

City/State/Zip:

MONTROSE, CA 91020

Phone:

818-249-0444

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:

ANTONIO ROQUE

Responsible Designer Signature:

Company:

TURPIN & RATTAN ENGINEERING, INC.

Date Signed:

2020-02-25

Address:

2441 HONOLULU AVE. SUITE 200

License:

E14542

City/State/Zip:

MONTROSE, CA 91020

Phone:

818-249-0444

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Report Page: Page 2 of 7

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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.

Table H Indoor Lighting Controls Permit Applicant Notes:  
RESTROOM: MULTI-LEVEL CONTROLS NOT REQUIRED IN RESTROOMS  
SUPPORT AREAS: MULTI-LEVEL AND SHUT OFF CONTROLS NOT REQUIRED IN ELECTRICAL ROOMS

E. ADDITIONAL REMARKS

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

F. INDOOR LIGHTING FIXTURE SCHEDULE

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

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\*

Watts per luminaire²

How Wattage is determined

Total number luminaires

Exempt per §140.6(a)3

Design Watts

Field Inspector

Pass

Fail

B

LED SURFACE LINEAR FIXTURE

☐

☐

34.9

Mfr. Spec²

2

☐

69.8

☐

☐

C

LED ROUND DOWNLIGHT

☐

☐

34.8

Mfr. Spec²

35

☐

1,218

☐

☐

G

LED LINEAR FIXTURE

☐

☐

34.8

Mfr. Spec²

13

☐

452.4

☐

☐

H

LED LINEAR FIXTURE

☐

☐

34.9

Mfr. Spec²

2

☐

69.8

☐

☐

Total Designed Watts CONDITIONED SPACES:

1,810

\* 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.

\* 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.

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards>

November 2019

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Report Page: Page 5 of 7

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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

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://www2.energy.ca.gov/title24/2019standards/2019\\_compliance\\_documents/Nonresidential\\_Documents/NRCC/](https://www2.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCC/)

YES

NO

Form/Title

Field Inspector

Pass

Fail

☒

☐

NRCC-LTI-01-E - Must be submitted for all buildings

☐

☐

☐

☒

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.

☐

☐

☐

☒

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.

☐

☐

☐

☒

NRCC-LTI-05-E - Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance.

☐

☐

☐

☒

NRCC-LTI-06-E - Must be submitted for additional wattage installed in a video conferencing studio to be recognized for compliance.

☐

☐

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards>

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Report Page: Page 3 of 7

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G. MODULAR LIGHTING SYSTEMS

This Section Does Not Apply

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

Shut-Off Controls §130.1(c)

Field Inspector

Pass

Fail

Not Required ≤ 10,000 SF

See Area/Space Level Controls

☐

☐

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

LOCKER ROOM

Locker/Dressing Room

Manual ON/OFF

Dimmer

Occ. Sensor

NA

NA

☐

☐

☐

RESTROOM

Restroom

Manual ON/OFF

Exempt\*

Occ. Sensor

NA

NA

☐

☐

☐

SUPPORT AREAS

Electrical, Mechanical, Telephone Rooms

Manual ON/OFF

Exempt\*

Exempt\*

NA

NA

☐

☐

☐

13

Plan Sheet Showing Daylit Zones:

\*NOTES: Controls with a \* require a note in the space below explaining how compliance is achieved.  
EXCEPTION 1: Primary/Skylit Daylighting: Exempt because less than 120 watts of general lighting;  
EXCEPTION 1 to §140.1(d)2

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.

Conditioned Spaces

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards>

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Report Page: Page 6 of 7

Project Address: 13520 Adelfa Dr.

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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 EXCEPTION 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-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.

☐

☐

☐

☒

NRCA-LTI-03-A - Must be submitted for automatic daylight controls.

☐

☐

☐

☒

NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls.

☐

☐

☐

☒

NRCA-LTI-05-A - Must be submitted for institutional tuning power adjustment factor (PAF).

☐

☐

☐

☒

NRCA-ENV-03-F - Must be submitted for daylighting design power adjustment factors (PAF).

☐

☐

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards>

November 2019

REVISIONS

NORWALK LA MIRADA UNIFIED SCHOOL DISTRICT  
LA MIRADA HIGH SCHOOL NEW FOOTBALL STADIUM PROJECT  
13520 ADELEFA DRIVE, LA MIRADA, CA 91698

DSA # 03-120551

NAC  
ARCHITECTURE

NAC NO. 161-19015  
DATE 12/10/2020

DSA BACKCHECK  
SUBMISSION

TITLE 24  
DOCUMENTATION  
(LIGHTING) -  
BUILDING "W"

E0.13

3/2/2020 1:48:18 PM D:\Revit\161-19015-LaMirada\Notes\FIELD\_ARCH\j04ecr.docx

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