



CERTIFICATE OF INSTALLATION		NRCI-LTO-02-E
Energy Management Control System or Lighting Control System		(Page 1 of 4)
Project Name:	Enforcement Agency:	Permit Number:
Project Address:	City:	Zip Code:

<b>GENERAL INFORMATION</b>			
DATE OF BUILDING PERMIT:	PERMIT #:		
BUILDING TYPE	<input type="checkbox"/> Nonresidential Outdoor Lighting		
PHASE OF CONSTRUCTION	<input type="checkbox"/> New Construction	<input type="checkbox"/> Addition	<input type="checkbox"/> Alteration

<b>SCOPE OF RESPONSIBILITY</b>	
<i>Enter the date of approval by enforcement agency of the Certificate of Compliance that provides the specifications for the energy efficiency measures for the scope of responsibility for this Installation Certificate.</i>	Date:

**Requirements in the Standards:**

§130.4(b) - Before an Energy Management Control System (EMCS), or Lighting Control System can be recognized for compliance with the lighting control requirements in Part 6 of Title 24, the person who is eligible under Division 3 of the Business and Professions Code to accept responsibility for the construction or installation of features, materials, components, or manufactured devices shall sign and submit this Installation Certificate.

If any of the requirements in this Installation Certificate fail the Energy Management Control System or Lighting Control System installation requirements, these options for controlling lighting shall not be recognized for compliance with the Building Energy Efficiency Standards.

**Check all that apply:****PART 1 What type of Lighting Control System has been installed?**

- A. Energy Management Control System (EMCS)** - Is an automated control system that regulates the energy consumption of a building by controlling the operation of energy consuming systems and is capable of monitoring loads, and adjusting operations in order to optimize energy usage and respond to demand response signals.
- The Energy Management Control System is installed to function as a lighting control required by Part 6 and its functionally meets all applicable requirements for each application for which it is installed, in accordance with Section 110.9, 130.2, 130.4, 150.0(k), and 150.2, and complies with Nonresidential Appendix NA7.7.2.
- B. Lighting Control System** - Requires two or more components to be installed in the building to provide all of the functionality required to make up a fully functional and compliant lighting control.
- The installed Lighting Control System is installed to comply with applicable requirements in Section 110.9, 130.2, 130.4, 150.0(k), and 150.2, and complies with Reference Nonresidential Appendix NA7.7.1.

**PART 2 Lighting Control Functional requirements:****Check all that are in compliance with the Standards when verifying the installation of an EMCS or Lighting Control System.**

- A. All outdoor lighting controls and equipment have been installed in accordance with the manufacturer's instructions.
- B. All installed EMCS systems meet each respective lighting control for which it is installed for meeting requirements in Section 110.9, 130.2, 130.4, 150.0(k), and 150.2.
- C. Components of all installed lighting control systems meet applicable requirements in Section 110.9, 130.2, 130.4, 150.0(k), and 150.2.



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D. The EMCS or Lighting Control System functions as one or more of the checked items below, and complies with the applicable requirements:

1. The installed controls meet applicable requirements for automatic scheduling controls in Section 110.9(b)1.

Check all that are applicable to the installed controls:

- Time-switch controls  
 Astronomical time-switch controls  
 Multi-level time-switch controls  
 Time-switch controls installed outdoors

2. The installed controls meet applicable requirements for motion sensing controls in Section 110.9(b)4.

**PART 3 Requirements for which the control is being installed to comply with:**

Identify all requirements in the Standards for which the EMCS or Lighting Control System is installed to function as and complies with:

**Check all that are in compliance with the Standards, Section 130.2:**

- A. During daytime, the installed EMCS or lighting control system turn off all controlled outdoor lighting.  
 Check all that are applicable to the installed controls:  
 Photocontrols;  
 Astronomical time-switch control;  
 Other control capable of automatically shutting OFF the outdoor lighting when daylight is available
- B. (Automatic scheduling control functionality) During normally unoccupied schedule, the installed EMCS or lighting control system function as one or more of the checked items below. Check all that are applicable to the installed controls:  
 Reduce the outdoor lighting power between 50 percent and 90 percent.  
 Turn the lighting off.
- C. (Automatic scheduling control functionality) For any override function included with the installed EMCS or lighting control system, the override function turns lighting on during its scheduled dim or off state for no more than 2 hours when an override is initiated.
- D. (Motion sensing control functionality) During unoccupied periods, the installed controls either reduce the lighting power of each controlled luminaire by at least 50 percent, or turn off the luminaire.
- E. (Motion sensing control functionality) After 15 minutes of vacancy in the outdoor area covered by the motion sensing controls, the installed controls either dim or turn off the lighting.
- F. (Motion sensing control functionality) No more than 1500 watts of lighting power is controlled by a single motion sensor.
- G. (Motion sensing control functionality) Motion sensing controls must be installed for the following luminaires, and may be installed for other outdoor lighting and in combination with other outdoor lighting controls. Check all that are applicable:  
 Outdoor luminaires other than building façade, ornamental hardscape, outdoor dining, or outdoor sales frontage lighting, where the bottom of luminaire is mounted 24 feet or less above grade.  
 Outdoor wall mounted luminaires installed for building façade, ornamental hardscape or outdoor dining lighting that have a bilaterally symmetric distribution as described in the IES handbook (typically referred to as "wall packs") mounted 24 feet above grade or lower.



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***Check all that are applicable and in compliance with the Standards:***

- A. Single-Family Building Outdoor Lighting.
  - Outdoor lighting attached to building, private patios, entrances, balconies, and porches: All lighting must be controlled by a manual on and off switch and one of the following:
    - Astronomical time clock control
    - Photocontrol and either a motion sensor or an automatic time switch control
  - Parking lots and carports with 8 vehicles or more per site: All lighting must comply with nonresidential outdoor lighting control requirements.
  - Parking lots and carports with less than 8 vehicles per site: The lighting must comply with one of the following:
    - Residential outdoor lighting control requirements in Section 150.0(k)3A
    - Nonresidential outdoor lighting control requirements in Section 130.2.
- B. Low-Rise Residential Building Outdoor Lighting.
  - All lighting attached to the residence or to other buildings on the same lot must comply with one of the following:
    - Section 150.0(k)3A.
    - Section 130.2.
  - Private patios, entrances, balconies, porches and other lighting not regulated by Section 150.0(k)3B: All lighting must comply with one of the following:
    - Residential outdoor lighting control requirements in Section 150.0(k)3A
    - Nonresidential outdoor lighting control requirements in Section 130.2.
  - Parking lots and carports with 8 vehicles or more per site: All lighting must comply with nonresidential outdoor lighting control requirements.
  - Parking lots and carports with less than 8 vehicles per site: The lighting must comply with one of the following:
    - Residential outdoor lighting control requirements in Section 150.0(k)3A
    - Nonresidential outdoor lighting control requirements in Section 130.2.
- C. High-Rise Residential Building Outdoor Lighting.
  - Outdoor lighting attached to the building that is not controlled from within the dwelling unit must comply with Section 130.2.
  - Outdoor lighting attached to the building that is controlled from within the dwelling unit must comply with Section 150.0(k)3A.
  - Parking lot and carport lighting must comply with Section 130.2.



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<b>DOCUMENTATION AUTHOR'S DECLARATION STATEMENT</b>		
1. I certify that this Certificate of Installation documentation is accurate and complete.		
Documentation Author Name:	Documentation Author Signature:	
Documentation Author Company Name:	Date Signed:	
Address:	CEA Certification Identification (If applicable):	
City/State/Zip:	Phone:	
<b>RESPONSIBLE PERSON'S DECLARATION STATEMENT</b>		
I certify the following under penalty of perjury, under the laws of the State of California:		
<ol style="list-style-type: none"> <li>The information provided on this Certificate of Installation is true and correct.</li> <li>I am eligible under Division 3 of the Business and Professions Code in the applicable classification to accept responsibility for the system design, construction, or installation of features, materials, components, or manufactured devices for the scope of work identified on this Certificate of Installation and attest to the declarations in this statement (responsible builder/installer), otherwise I am an authorized representative of the responsible builder/installer.</li> <li>The constructed or installed features, materials, components or manufactured devices (the installation) identified on this Certificate of Installation conforms to all applicable codes and regulations, and the installation conforms to the requirements given on the plans and specifications approved by the enforcement agency.</li> <li>I reviewed a copy of the Certificate of Compliance approved by the enforcement agency that identifies the specific requirements for the scope of construction or installation identified on this Certificate of Installation, and I have ensured that the requirements that apply to the construction or installation have been met.</li> <li>I will ensure that a completed signed copy of this Certificate of Installation shall be posted, or 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 Installation is required to be included with the documentation the builder provides to the building owner at occupancy.</li> </ol>		
Responsible Builder/Installer Name:	Responsible Builder/Installer Signature:	
Company Name: (Installing Subcontractor or General Contractor or Builder/Owner)	Position With Company (Title):	
Address:	CSLB License:	
City/State/Zip:	Phone:	Date Signed:

CERTIFICATE OF INSTALLATION—USER INSTRUCTIONS	NRCI-LTO-02-E
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### **NRCI-LTO-02-E User Instructions**

This Certificate of Installation must be submitted whenever a lighting control system, and whenever an Energy Management Control System (EMCS), has been installed to comply with any of the outdoor lighting control requirements in the Standards.

If this Certificate of Installation is not submitted, or if all of the appropriate boxes have not been checked, the lighting controls system or the EMCS will not be recognized for compliance with the lighting control requirements in the Standards.

Note that if lighting control systems are installed, a Certificate of Acceptance must also be submitted.

Check all appropriate boxes in this certificate as a declaration that the control system has been installed to meet all of the minimum specifications and functionalities.

- Part 1 – Identify if the system is a lighting control system, or an EMCS, by checking the appropriate boxes.
- Part 2 - Lighting Control Functional requirements: Check all boxes that apply to verify the functionality of the Lighting Control System or EMCS.
- Part 3 – Check all boxes to indicate what sections of the Standards the control has been installed to comply with.