OUTDOOR LIGHTING POWER ALLOWANCES

Project Name:	Date Prepared:

A. OUTDOOR LIGHTING POWER ALLOWANCE SUMMARY

1. General Hardscape Lighting Power Allowance (Site Total from Section B of NRCC-LTO-03-E)								1.
2. Additional Specific "use it or lose it" Lighting Power Allowances listed in each of these cells shall be identical to total allowed watts determined in Section C-1 to C-4 of NRCC-LTO-03-E.								
PER APPLICATION from Section C-1		PER UNIT LENGTH (SALES FRONTAGE) from Section C-2		PER HARDSCAPE AREA (ORNAMENTAL LIGHTING) from Section C-3		PER SPECIFIC AREA from Section C-4.		
	+		+		+		=	2.
3. **Sum Total ALLOWED** Outdoor Lighting Wattage (add rows 1 and 2)								3.

B. GENERAL HARDSCAPE LIGHTING POWER ALLOWANCE FROM TABLE 140.7-A

Area Wattage Allowance (AWA)				Linear Wattage Allowance (LWA)			Initial Wattage Allowance (IWA)	Total General Hardscape Lighting Allowance
01	02	03	04	05	06	07	08	09
Name of area	Illuminated Hardscape Area	AWA Per Square Foot	AWA (B02 x B03)	Perimeter Length of General Hardscape	LPA per Linear Foot	LWA (B05 x B06)	IWA (Watts)	B04 + B07 + B08
							TOTAL	

CERTIFICATE OF COMPLIANCE	NRCC-LTO-03-E
Outdoor Lighting Power Allowances	(Page 2 of 4)
Project Name:	Date Prepared:

C. ADDITIONAL "USE IT OR LOSE IT" OUTDOOR LIGHTING POWER ALLOWANCES FOR SPECIFIC APPLICATIONS

☐ The additional specific outdoor lighting power allowance shall be the smaller of the allowed lighting power or the actual lighting power used.

☐ Use Outdoor Lighting Zone (OLZ) that is documented on page 1 of NRCC-LTO-01-E to calculate the specific wattage allowances.

C-1. WATTAGE ALLOWANCE PER APPLICATION – Table 140.7-B

☐ Available only for qualifying locations, which include Building Entrances or Exits; Primary Entrances to Senior Care Facilities, Police Stations, Hospitals, Fire Stations, and Emergency Vehicle Facilities; Drive Up Windows; Vehicle Service Station Uncovered Fuel Dispenser, ATM Machine Lighting

☐ If more than one luminaire type is used per location, use multiple rows for that location

01	02	03	04	05	06	07	08	09	10
	ALLOTTED WATTS			**DESIGN WATTS**					
Name of Location for which allowance is claimed	Number of qualifying locations	Wattage Allowance per qualifying location	Allotted Watts (02 x 03)	Luminaire Code or Symbol	Luminaire Description	Luminaire Quantity	Watts per ~~I~~Luminaire	Design Watts (07 x 08)	Allowed Watts (smaller of 04 or 09)
								Sum total allowance per application on this site:	

C-2. WATTAGE ALLOWANCE PER UNIT LENGTH (Sales Frontage) from Table 140.7-B

☐ If more than one luminaire type is used per location, use multiple rows for that location

~~A~~01	~~B~~02	~~C~~03	~~D~~04	~~E~~05	~~F~~06	~~G~~07	~~H~~08	~~I~~09	~~J~~10
	ALLOTTED WATTS			**DESIGN WATTS**					
Name of Location for which allowance is claimed	Linear feet of Sales Frontage	Wattage Allowance per linear foot	Allotted Watts (02~~B~~ x 03~~C~~)	Luminaire Code or Symbol	Luminaire Description	Luminaire Quantity	Watts per ~~I~~Luminaire	Design Watts (07~~G~~ x 08~~H~~)	Allowed Watts (smaller of 04~~D~~ or 09~~I~~)
								Sum total allowance for sales frontage on the site:.	

C-3. WATTAGE ALLOWANCE PER SQUARE FOOT OF HARDSCAPE AREA (Ornamental Lighting) – Table 140.7-B

☐ Allowance for the total site illuminated hardscape area. Luminaires qualifying for this allowance shall be rated for 100 watts or less as determined in accordance with Section 130.0(c), and shall be post-top luminaires, lanterns, pendant luminaires, or chandeliers.

☐ If more than one luminaire type is used per location, use multiple rows for that location

01	02	03	04	05	06	07	08	09	10
	ALLOTTED WATTS			DESIGN WATTS					
Name of area for which ornamental allowance is claimed	Square feet of Hardscape	Wattage Allowance per square foot	Allotted Watts (~~B~~02 x ~~C~~03)	Luminaire Code or Symbol	Luminaire Description	Luminaire Quantity	Watts per L~~l~~uminaire	Design Watts (~~G~~07 x ~~H~~08)	Allowed Watts (smaller of ~~D~~04 or ~~I~~09)
Sum total allowance for ornamental lighting on the site:.									

C-4. WATTAGE ALLOWANCE PER SQUARE FOOT OF SPECIFIC AREA - Table 140.7-B

☐ Allowances for Building Facades; Outdoor Sales Lots; Vehicle Service Station Hardscape; Vehicle Service Station Canopies; Sales Canopies; Non-sales Canopies; Tunnels; Guard Stations; Student Pick-up/Drop-off zone: Outdoor Dining; Special Security Lighting for Retail Parking and Pedestrian Hardscape.

☐ If more than one luminaire type is used per location, use multiple rows for that location

01	02	03	04	~~E~~05	~~F~~06	~~G~~07	~~H~~08	~~I~~09	~~J~~10
	ALLOTTED WATTS			DESIGN WATTS					
Name of Location for which allowance is claimed	Illuminated Area of Application	Wattage Allowance per square foot	Allotted Watts (02 x 03)	Luminaire Code or Symbol	Luminaire Description	Luminaire Quantity	Watts per luminaire	Design Watts (07 x 08)	Allowed Watts (smaller of 04 or 09)
Sum total allowance for specific area on the site:									

CERTIFICATE OF COMPLIANCE	NRCC-LTO-03-E
Outdoor Lighting Power Allowances	(Page 4 of 4)
Project Name:	Date Prepared:

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT	
1. I certify that this Certificate of Compliance documentation is accurate and complete.	
Documentation Author Name:	Documentation Author Signature:
Company:	Signature Date:
Address:	CEA 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:

NRCC-LTO-03-E User Instructions

The NRCC-LTO-03-E shall be completed and submitted to indicate the allowed lighting power for the project. This form is not required to be on the plans; it may be submitted separately in the energy compliance package, or it may be included on the plans.

Section A. Outdoor Lighting Power Allowance Summary

This table is used to calculate of the total lighting power allowance for the project, calculated as the sum of the hardscape allowances shown in table B, and the additional specific "use-it-or-lose-it" allowances shown in tables C-1 through C-4

Section B. General Hardscape Lighting Power Allowance from Table 140.7-A

This table is used to calculate the general hardscape lighting power allowances for general hardscape illumination (Standards Table 140.7-A).

1. **NAME OF AREA**
2. **ILLUMINATED HARDSCAPE AREA** is the area of the general hardscape determined in accordance with §140.7(d)1A.
3. **AREA WATTAGE ALLOWANCE (AWA) PER SQUARE FOOT** is amount of wattage allowed per square foot of hardscape area found listed in Standards Table 147-A.
4. **AWA** is calculated by multiplying the ILLUMINATED HARDSCAPE AREA (B01) and the AWA PER SQUARE FOOT (B02). The result is the allowed wattage in watts for that area.
5. **PERIMETER LENGTH** is the measured length of the general hardscape area determined in accordance with §140.7(d) 1B.
6. **LINEAR WATTAGE ALLOWANCE (LWA) PER LINEAR FOOT** is the allowed wattage per linear foot listed in Standards Table 140.7-A.
7. **LWA** is calculated by multiplying the PERIMETER LENGTH (B04) and the LWA PER LINEAR FOOT (B05). The result is the allowed wattage in watts.
8. **INITIAL WATTAGE ALLOWANCE (IWA)** is a power allowance given for each project, irrespective of the type, area or perimeter length of the project. The number of Watts allowed is dependent of the lighting zone, and listed in Standards Table 147-A.
9. **TOTAL GENERAL HARDSCAPE LIGHTING ALLOWANCE** is the total allowed watts for the general hardscape illumination and is calculated by the sum of the AWA (B03), LWA (B06) and the IWA (B07).

Add up all of the rows for B08, and insert the total site General Hardscape Lighting Allowance into the summary table above, and in NRCC-LTO-01-E, into row 1 of the table labeled "Summary of Allowed Outdoor Lighting Power".
The "Yes" box shall be checked to declare that the AWA, LWA, and IWA from Table 140.7-A was used as appropriate for the Outdoor Lighting Zone for this particular site.

Section C. Additional Specific "Use It Or Lose It" Outdoor Lighting Power Allowances

The four tables in this section are used to calculate the four types of additional specific "use-it-or-lose-it" allowances. For each allowance, the allowed wattage (for use in the Performance Method of compliance) is the lesser of the allotted wattage or the design wattage.

C-1. Lighting Compliance Summary per Application

This section is for specific application lighting wattage allowance per application in accordance with Table 140.7-B.

1. **NAME OF LOCATION FOR WHICH ALLOWANCE IS CLAIMED**
2. **NUMBER OF QUALIFYING LOCATIONS**
3. **WATTAGE ALLOWANCE PER QUALIFYING LOCATION** is the allowed watts for the specific application listed in this row, dependent on outdoor lighting zone, and found in Standards Table 140.7-B. Note: for this section this shall be listed as watts.
4. **ALLOTTED WATTS** is the product of the NUMBER OF LUMINAIRES (column 02) and the SPECIFIC APPLICATION ALLOWANCE of column 03.
5. **LUMINARE CODE OR SYMBOL** is the description corresponding to the plans.
6. **LUMINAIRE DESCRIPTION** is the description of the lighting type.

7. **LUMINAIRE QUANTITY** is the number of identical luminaire types for this single specific application.
8. **WATTS PER LUMINAIRE** is the number of watts the luminaire is rated at as determined according to §130.0(c). It is not the wattage of the lamp (bulb) or light source installed in the luminaire.
9. **DESIGN WATTS** is the product of the number of luminaires of the same type (column 07) and the watts per luminaire (column 08).
10. **ALLOWED WATTS** is the smaller of the wattage allowed in column 04 or the DESIGN WATTS of column 09.

Add up all of the rows for column 10, and insert the Specific application wattage allowance per application into cell C-1 in Row 2 of Table A (page 1 of the NRCC-LTO-03-E).

Section C-2. Wattage Allowance p**er Unit Length** (Sales Frontage)

This section is for specific application lighting wattage allowance per unit length, which is available only for projects with a sales frontage.

1. **NAME OF LOCATION FOR WHICH ALLOWANCE IS CLAIMED**
2. **LINEAR FEET OF FRONTAGE** is the measured value of the sales frontage measured in feet.
3. **WATTAGE ALLOWANCE PER LINEAR FOOT** is the watts per linear foot listed, dependent on lighting zone, and found in Standards Table 140.7-B.
4. **ALLOTTED WATTS** is the product of the LINEAR FEET (column 02) and the SALES FRONTAGE ALLOWANCE of column 03.
5. **LUMINARIE CODE OR SYMBOL** is the description corresponding to the plans.
6. **LUMINAIRE DESCRIPTION** is the description of the lighting type.
7. **LUMINAIRE QUANTITY** is the number of identical luminaires.
8. **WATTS PER LUMINAIRE** is the rated watts the luminaire as determined in accordance with §130.0(c). It is not the wattage of the lamp (bulb) or light source installed in the luminaire.
9. **DESIGN WATTS** is the product of the number of luminaires of the same type (column 07) and the watts per luminaire (column 08).
10. **ALLOWED WATTS** is the smaller of the wattage allowed in column 04 or the DESIGN WATTS of column 09.

Add up all of the rows for column 10 and insert the Specific application lighting wattage allowance per unit length into cell C-2 in Row 2 of Table A (page 1 of the NRCC-LTI-03-E.

Section C-3. Wattage Allowance per Square Foot of Hardscape Area (Ornamental Lighting)

This section is for specific application lighting wattage allowance for ornamental lighting, which is available only for projects with hardscape ornamental lighting.

1. **NAME OF LOCATION FOR WHICH ALLOWANCE IS CLAIMED**
2. **SQUARE FEET OF HARDSCAPE** is the total hardscape area for the site, as defined in §100.1.
3. **WATTAGE ALLOWANCE PER SQUARE FOOT** is the watts per square foot listed, dependent on outdoor lighting zone, and found in Standards Table 140.7-B.
4. **ALLOTTED WATTS** is the product of the SQUARE FEET (column 02) and the ORNAMENTAL LIGHTING ALLOWANCE of column 03.
5. **LUMINARIE CODE OR SYMBOL** is the description corresponding to the plans.
6. **LUMINAIRE DESCRIPTION** is the description of the lighting type.
7. **LUMINAIRE QUANTITY** is the number of identical luminaires.
8. **WATTS PER LUMINAIRE** is the rated watts of the luminaire in accordance with §130.0(c). It is not the wattage of the lamp (bulb) or light source installed in the luminaire.
9. **DESIGN WATTS** is the product of the number of identical luminaires (column G) and the watts per luminaire (column H).
10. **ALLOWED WATTS** is the smaller of the wattage allowed in column D or the DESIGN WATTS of column I.

Add up all of the rows for column 10, and insert the Specific application wattage allowance for ornamental lighting into cell C-3 in Row 2 of Table A (page 1 of the NRCC-LTO-03-E).

Section C-4. Wattage Allowance Per Square Foot of Specific Area

This section is for specific application lighting wattage allowance area.

1. **NAME OF LOCATION FOR WHICH ALLOWANCE IS CLAIMED**
2. **ILLUMINATED AREA** is the calculated area specific to the single application listed on this row.
3. **WATTAGE ALLOWANCE PER SQUARE FOOT** is the watts per square foot listed, dependent on outdoor lighting zone, and found in Standards Table 140.7-B.
4. **ALLOTTED WATTS** is the product of the SQUARE FEET (column 02) and the SPECIFIC APPLICATION ALLOWANCE of column 03.
5. **LUMINARIE CODE OR SYMBOL** is the description corresponding to the plans.
6. **LUMINAIRE DESCRIPTION** is the description of the lighting type.
7. **LUMINAIRE QUANTITY** is the number identical luminaires for this single specific application.
8. **WATTS PER LUMINAIRE** is the number of watts the luminaire is rated as determined in accordance with §130.0(c). It is not the wattage of the lamp (bulb) or light source installed in the luminaire.
9. **DESIGN WATTS** is the product of the number of identical luminaires (column 07) and the watts per luminaire (column 08).
10. **ALLOWED WATTS** is the smaller of the wattage allowed in column 04 or the DESIGN WATTS of column 09.

Add up all of the rows for column 10, and insert the Specific application lighting wattage allowance per area into cell C-4 in Row 2 of Table A (page 1 of the NRCC-LTO-03-E).