



TRIGGERS for 2013 Title 24, Part 6

Nonresidential

Exterior Lighting

Application	Mandatory Measures							Prescriptive Requirements	
	Motion Sensor § 130.2 (a)	Luminaire Cutoff Requirements § 130.2 (b)	Lighting Controls ⁴ § 130.2 (c) § 130.3 (a)	Demand Responsive EMC control § 130.3 (a)	Documentation Requirements			Outdoor Lighting Power Trade-off § 140.7 (b)	Additional Lighting Power Allowance § 140.7 (d) 2
					Certificate of Compliance	Certificate of Installation	Certificate of Acceptance		
Alterations that replace 10% or more	YES	YES	YES	no	YES	YES	YES	no	no
Alterations that replace greater than 50%	YES	YES	YES	no	YES	YES	YES	YES	YES
Outdoor Incandescent rated >100 Watts	YES	YES	YES	no	YES	YES	YES	no	no
All Outdoor lamps rated >150 Watts ¹	YES	YES	YES ⁵	no	YES	YES	YES	no	no
Lighting for outdoor sales frontage, outdoor sales lots and outdoor sales canopies ^A	YES	no	YES	no	YES	YES	YES	no	YES
Lighting for building facades, ornamental hardscape and outdoor dining ^B	YES	YES	YES	no	YES	YES	YES	no	YES
General hardscape lighting ^C	YES	YES	YES	no	YES	YES	YES	YES	no
Additional Lighting Power Allowance for Specific Applications (Table 140.7-B) ^D	YES	no	YES	no	YES	YES	YES	no	YES
Outdoor Sign lighting	no	no	YES ²	YES ³	YES	YES	YES	no	no



Exceptions:

1. Except signs, lighting for building façade, public monuments, statues, vertical surfaces of bridges, temporary outdoor lighting, lighting for public right of way on roadways, sidewalks and bikeways, replacement for existing non applicable pole mounted luminaires and not permitted by health of life safety statute, ordinance or regulation.
2. Except outdoor signs in tunnels and signs that are lit continuously 24 hours per day year round.
3. Except lighting for EMCs not permitted by health of life safety statute, ordinance or regulation. These lights must be capable of reducing 30% when receiving a demand response signal.
4. Except outdoor lighting not permitted by health of life safety statute, ordinance or regulation. Lighting in tunnels.
5. Except lighting for outdoor sales frontage, outdoor sales lots and outdoor sales canopies and lighting for building facades, ornamental hardscape and outdoor dining. Also exempted are pole lighting that meet conditions in § 130.2 (c) 3. Applies to all exterior lighting mounted at least 24 feet above the ground. Outdoor lighting controlled by a photo-control or outdoor astronomical time-switch. No more than 1500W of lighting power should be controlled together.

Notes:

- A. Automatic part-night lighting control or motion sensor with auto-on functionality and capable of reducing lighting power by 40% but not exceeding 80%.
- B. Automatic part-night lighting control or motion sensor with auto-on functionality or centralized time-based zone lighting control.
- C. General hardscape lighting determined according to § 140.7 (d) 1 may be traded to specific applications in § 140.7 (d) 2.
- D. Additional lighting power allowances for specific applications as per Standards Table 140.7-B. Trade-offs are not allowed. Lighting power allowances are dependent on lighting zone.
 1. Allowance per application: building entrances and exits, primary entrance for twenty-four hour public occupancies, drive-up windows and vehicle service stations.
 2. Allowance per unit length: outdoor sales frontage.
 3. Allowance per hardscape area: ornamental lighting.
 4. Allowance per specific area: building facades, outdoor sales lots, vehicle service station hardscape and canopies, sales and non-sales canopies, guard stations, student drop-off zone, outdoor dining, security lighting and pedestrian hardscape

Additional Notes:

1. Allowed lighting power is calculated:
 - a. For outdoor lighting as per § 140.7 (d)
 - b. For outdoor sign lighting, maximum lighting power \leq product of illuminated sign area and 2.3 W per sq. ft.
2. Light sources for sign lighting are listed in § 140.8 (b)
3. Mandatory Requirements for Outdoor Lighting Control:
 - a. Lighting control devices are regulated by Appliance Standards, Title 20.
 - i. Following self-controlled lighting controls requires certification from manufacturer as compliant with Title 20:
 1. Time-switch controls: automatic time-switch control
 - a. Astronomical time-switch control
 - b. Multi-level astronomical time-switch control
 - c. Outdoor astronomical time-switch control
 2. Daylighting controls:
 - a. Automatic daylighting control
 - b. Photo control
 3. Dimmers
 4. Occupant sensing controls:
 - a. Occupant sensors
 - b. Motion sensors
 - c. Vacancy sensors
 - b. Lighting control systems are regulated by Title 24, Part 6 and must comply with § 110.9 (b).
 - c. All lighting control systems require an Installation Certificate
 4. Outdoor lighting controlled by a photo-control or outdoor astronomical time-switch. No more than 1500W of lighting power should be controlled together.

