

EXTERIOR LIGHTING PROPOSALS

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TEXT PROPOSAL:

1513.5 Automatic Shut-off Controls, Exterior: Exterior lighting, including signs, shall be capable of being automatically switched off during daylight hours or non-use nighttime hours by either a combination of timer and photocell, or a timer with astronomic control. Automatic time switches shall also have program back-up capabilities, which prevent the loss of program and time settings for at least 10 hours, if power is interrupted.

All exterior lighting, including signs and building facades,

(a) shall be switched off no later than 11 pm - midnight or one hour after the close of business, whichever is later, and

(b) shall be switched on no earlier than 6 am or one hour before the start of business, whichever is earlier.

All open parking and outdoor area lighting

(a) shall be switched to reduce lighting by half or more no later than 11 pm - midnight or one hour after the close of business, whichever is later

(b) shall be switched on no earlier than 6 am or one hour before the start of business, whichever is earlier.

EXCEPTIONS: Neon lighting in signs.

1532 Exterior Lighting Power Allowance: The exterior lighting power allowance shall be calculated separately for (1) covered parking, ~~and~~ (2) outdoor parking, outdoor areas and (3) building exteriors. The lighting in these ~~two~~ three areas shall not be traded.

The lighting allowance for covered parking shall be 0.15-0.18 W/ft², and the allowance for open parking and outdoor areas that are illuminated shall be 0.20-0.15 W/ft². For luminaires mounted above 15 feet, all open parking, outdoor areas and roadway luminaires shall meet IESNA requirements for Full Cutoff Luminaires (*Do we need to specify how the luminaires are mounted to maintain the intent for Full Cutoff and to prevent spillage?*). For luminaires mounted 15 feet and below, IESNA Non-Cutoff luminaires shall be limited to 1800 lumens maximum. (*Do we need to specify how the luminaires are mounted to maintain the intent for Full Cutoff and to prevent spillage?*)

The lighting allowance for building exteriors and externally-illuminated signs (including billboards) shall be calculated either by multiplying the building facade area that is illuminated or sign area that is illuminated by 0.25-0.15 W/ft² or multiplying the building perimeter in feet by 7.5-4 watts per lineal foot. (*Do we need to specify how the luminaires are mounted to prevent spillage?*)

EXCEPTIONS: 1. Group U occupancy accessory to Group R-3 occupancy.

2. For covered parking, 0.30 W/ft² may be used for the lighting provided that the ceilings and walls are painted or stained with a reflectance value of 0.70 or higher. (Reserved.)

3. The top level of a parking garage is allowed to be included with the covered parking garage category provided that the luminaires on the top level meet IESNA requirements for Full Cutoff Luminaires.

DISCUSSION:

1. Prohibit trading between exterior lighting allowances for covered parking, outdoor areas, and building facades.
2. Limit lighting power allowances for covered parking, outdoor area, and building façades to 0.15 W/sqft.
3. Require Full Cutoff to limit light trespass and light pollution. Non Cutoff luminaires are limited to a 100 Watt incandescent maximum per fixture.
4. Eliminate unnecessary lighting during nighttime hours.