

[First Reprint]

ASSEMBLY, No. 2196

STATE OF NEW JERSEY
221st LEGISLATURE

PRE-FILED FOR INTRODUCTION IN THE 2024 SESSION

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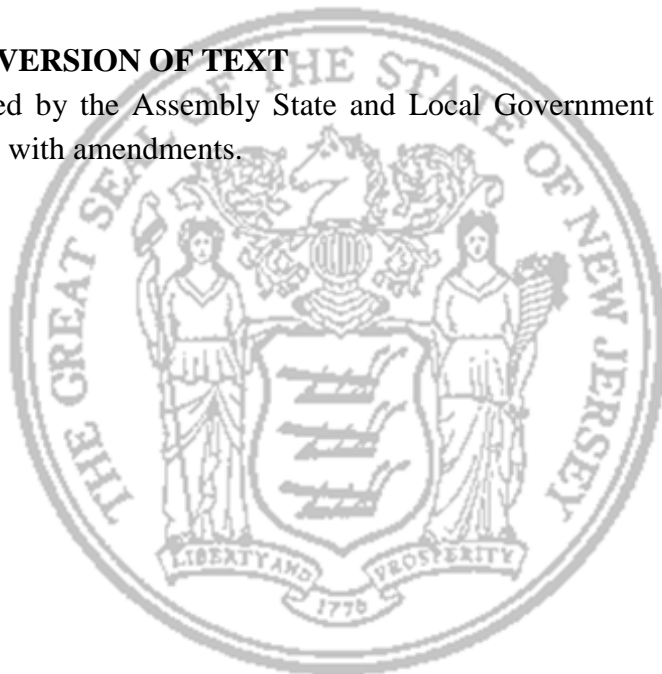
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SYNOPSIS

Requires outdoor lighting fixtures installed or replaced by, or on behalf of State, or at projects receiving State funds, to meet certain criteria.

CURRENT VERSION OF TEXT

As reported by the Assembly State and Local Government Committee on June 6, 2024, with amendments.



(Sponsorship Updated As Of: 6/28/2024)

1 AN ACT concerning certain outdoor lighting fixtures and
2 supplementing Title 52 of the Revised Statutes.

3

4 **BE IT ENACTED** by the Senate and General Assembly of the State
5 of New Jersey:

6

7 1. As used in this act:

8 ¹"Backlight, uplight, and glare rating," or "BUG rating" means a
9 rating assigned to a luminaire, using criteria developed by the
10 Illuminating Engineering Society, where the light emitted behind
11 the desired direction of illumination ("backlight"), upward
12 ("uplight"), and in a slant angle causing glare ("glare") from the
13 luminaire are rated from 0 (desirable) to 5 (worst).¹

14 "Energy conservation" means the reduction of energy costs and
15 resources by use of methods including, but not limited to, the use of
16 light fixtures with the lowest feasible wattage or a photo-sensitive
17 ¹**[or]**, motion detecting, or ¹timer switch.

18 "Full cutoff fixture" means a luminaire whose luminous intensity
19 in candelas at or above an angle of 90 degrees above nadir ¹**[does**
20 **not numerically exceed 2.5 percent of the luminous flux, in lumens,**
21 **of the lamp or lamps in the luminaire,]** is zero¹ and the luminous
22 intensity, in candelas, at or above a vertical angle of 80 degrees
23 above nadir does not numerically exceed ¹**[10]** two¹ percent of the
24 luminous flux of the lamp or lamps in the luminaire.

25 "Fully shielded luminaire" means a luminaire that allows no
26 direct light emissions above a horizontal plane through the lowest
27 light-emitting part of the luminaire.

28 "Glare" means direct light emitting from a luminaire that is
29 significantly greater than luminance to which the eyes are adapted,
30 and which causes reduced vision or momentary blindness.

31 "Illuminance" means the unit measure of light at a surface.

32 "Lamp" means the component of a luminaire that produces the
33 specific form of radiant energy that is observed as light.

34 "Light trespass" means light emitted by a luminaire that shines
35 beyond the boundaries of the property on which the luminaire is
36 located.

37 "Lumen" means an international standard unit of luminous flux
38 representing the quantity of visible light output.

39 "Luminaire" means the complete lighting unit fixture consisting
40 of a lamp, or lamps and ballasts, together with the parts designed to
41 distribute light, including, but not limited to, a reflector, lens, and
42 diffuser, to position and protect the lamps, and to connect the lamps
43 to the power supply.

EXPLANATION – Matter enclosed in bold-faced brackets **[thus]** in the above bill is
not enacted and is intended to be omitted in the law.

Matter underlined thus is new matter.

Matter enclosed in superscript numerals has been adopted as follows:

¹Assembly ASL committee amendments adopted June 6, 2024.

1 "Luminous flux" means the measure of the perceived power of
2 the light in lumens.

3 "Outdoor lighting fixture" means any type of fixed or movable
4 lighting equipment that is designed or used for illumination
5 outdoors. "Outdoor lighting fixture" shall not include lighting
6 equipment that is required by law to be installed on motor vehicles,
7 or lighting required for the safe operation of aircraft or installed at
8 an aviation facility.

9 "Project" means the acquisition, construction, improvement,
10 reconstruction, or repair of all or part of any building, facility,
11 structure, or real property.

12 "State agency" means any of the principal departments in the
13 Executive Branch of State Government, any division, board, bureau,
14 office, commission, or other instrumentality created by a principal
15 department, and any independent State authority, commission,
16 instrumentality, or agency established by law.

17

18 2. a. Commencing on the effective date of this act, an outdoor
19 lighting fixture installed or replaced by, or on behalf of, a State
20 agency, or as part of a project that receives funds from a State
21 agency, shall comply with the following specifications:

22 (1) the luminaire shall be a fully shielded luminaire;

23 (2) the outdoor lighting fixture shall emit only as much light as
24 necessary for the intended purpose and shall not exceed the
25 minimum illuminance level recommended for that purpose by the
26 Illuminating Engineering Society of North America or the Federal
27 Highway Administration;

28 (3) the outdoor lighting fixture shall use a full cutoff fixture
29 when the output of light is greater than 1,800 lumens; ¹**[and]**¹

30 (4) full consideration has been given to energy conservation,
31 and to reducing glare, minimizing light trespass and light pollution,
32 and to preserving the natural night environment ¹and public health;

33 (5) the correlated color temperature of an outdoor lighting fixture
34 shall be no more than 2,700 Kelvin, except that:

35 (a) a luminaire within direct line-of-sight to areas seaward of a
36 frontal dune or within close proximity to a nature preserve shall
37 emit no radiant energy with a wavelength of less than 560
38 nanometers;

39 (b) the maximum correlated color temperature for outdoor sports
40 lighting shall be the lowest possible for the sport, class of play, and
41 viewing audience, but shall not exceed 5,700 Kelvin; and

42 (c) luminaires used specifically for the decoration of facades or
43 landscapes may have a correlated color temperature in excess of
44 2,700 Kelvin; and

45 (6) a luminaire emitting more than 600 lumens shall have a BUG
46 rating of U0 and emit no more than two percent of its total lumen
47 output above 80 degrees from nadir, except that aerial sport lighting

- 1 installations may emit up to eight percent of total lumen output
2 above 80 degrees from nadir¹.
- 3 b. The provisions of subsection a. of this section shall not apply
4 in the following circumstances:
- 5 (1) the outdoor lighting fixture is used on a temporary basis
6 because emergency personnel require additional illumination for
7 emergency procedures;
- 8 (2) the outdoor lighting fixture is used on a temporary basis for
9 nighttime work; or
- 10 (3) a compelling safety interest exists that cannot be addressed
11 by another method.
- 12 c. Notwithstanding the provisions of this section to the contrary,
13 in the case of outdoor lighting fixtures installed along any roadway
14 in the State, the Department of Transportation shall assess whether
15 the purpose of the outdoor lighting fixture can be achieved by the
16 installation of reflective road markers, lines, warning or
17 informational signs, or other effective passive methods in lieu of the
18 installation of outdoor lighting fixtures.
- 19 d. The State Treasurer shall provide guidance to every State
20 agency concerning the requirements of this act.
21
- 22 3. Notwithstanding the provisions of any other law, or rule or
23 regulation adopted pursuant thereto, to the contrary, the Director of
24 the Division of Purchase and Property in the Department of the
25 Treasury, the Director of the Division of Property Management and
26 Construction in the Department of the Treasury, or any State agency
27 having authority to contract for the purchase of goods or services,
28 shall comply with the requirements of this act.
29
- 30 4. This act shall take effect on the first day of the third month
31 next following the date of enactment.