



AN ACT REQUIRING ENERGY EFFICIENT ROADWAY LIGHTS.

Be it enacted by the Senate and House of Representatives in General Assembly convened:

1 Section 13a-110a of the general statutes is repealed and the
2 following is substituted in lieu thereof:

3 (a) As used in this section:

4 (1) "Fixture" means the assembly that holds a lamp and may include
5 an assembly housing, a mounting bracket or pole socket, a lamp
6 holder, a ballast, a reflector or mirror, and a refractor or lens;

7 (2) "Full cutoff luminaire" means a luminaire that allows no direct
8 light emissions above a horizontal plane through the luminaire's
9 lowest light-emitting part;

10 (3) "Glare" means direct light emitting from a luminaire that causes
11 reduced vision or momentary blindness;

12 (4) "Illuminance" means the level of light measured at a surface;

13 (5) "Lamp" means the component of a luminaire that produces the
14 light;

15 (6) "Light trespass" means light emitted by a luminaire that shines
16 beyond the boundaries of the property on which the luminaire is
17 located;

18 (7) "Lumen" means a unit of measurement of luminous flux;

19 (8) "Luminaire" means the complete lighting system, including the
20 lamp and the fixture;

21 (9) "Municipality" shall have the same meaning as in subsection (a)
22 of section 7-148;

23 (10) "Municipal funds" means any bond revenue or any money
24 appropriated or allocated by a municipality;

25 (11) "Municipal road" means any public highway, road, street,
26 avenue, alley, driveway, parkway or place, under the control of a
27 municipality of the state, dedicated, appropriated or opened to public
28 travel;

29 [(9)] (12) "Permanent outdoor luminaire" means any luminaire or
30 system of luminaires that is outdoors and intended to be used for
31 seven days or longer; [and]

32 [(10)] (13) "State funds" means any bond revenues or any money
33 appropriated or allocated by the General Assembly; and

34 (14) "State highway" shall have the same meaning as in subsection
35 (a) of section 13a-1.

36 (b) Except as provided in subsection (c) of this section, no state or
37 municipal funds shall be used to install or replace a permanent
38 outdoor luminaire for roadway lighting unless (1) the luminaire is
39 designed to maximize energy conservation and to minimize light
40 pollution, glare and light trespass, (2) the luminaire's illuminance is
41 equal to the minimum illuminance adequate for the intended purpose
42 of the lighting, (3) for a luminaire with a rated output of more than
43 1800 lumens used on state secondary highways, as defined in section
44 13a-14, and state special service highways, as defined in said section
45 13a-14, such luminaire is a full cutoff luminaire, (4) for a luminaire
46 with a rated output of more than 1800 lumens used on municipal
47 roads, such luminaire is a full cutoff luminaire, (5) for a luminaire with

48 a rated output of more than 1800 lumens used on state primary
49 highways, as defined in said section 13a-14, for which, in the opinion
50 of the Commissioner of Transportation, use of a full cutoff luminaire
51 shall not compromise the safety of the highway, increase the cost of the
52 lighting plan or lighting replacement for the highway or violate any
53 provision of federal law, such luminaire is a full cutoff luminaire, [and
54 (5)] (6) the Commissioner of Transportation determines that the
55 purpose of the lighting installation or replacement of lights on state
56 highways cannot be achieved by reducing the speed limit in the area to
57 be lighted or by installing reflectorized roadway markers, lines,
58 warnings, informational signs or other means of passive or reflective
59 lighting, and (7) the chief elected officer of a municipality or such
60 officer's designee, determines that for a municipal road the purpose of
61 the lighting installation or replacement cannot be achieved by reducing
62 the speed limit in the area to be lighted or by installing reflectorized
63 roadway markers, lines, warnings, informational signs or other means
64 of passive or reflective lighting.

65 (c) The Commissioner of Transportation or [his] the commissioner's
66 designee may waive the provisions of subdivision (3) of subsection (b)
67 of this section when, after a request for such a waiver has been made
68 and reviewed, the commissioner or [his] the commissioner's designee
69 determines that such a waiver is necessary for the lighting application.
70 Requests for such a waiver shall be made to the commissioner or [his]
71 the commissioner's designee in such form as the commissioner shall
72 prescribe and shall include, without limitation, a description of the
73 lighting plan, a description of the efforts that have been made to
74 comply with the provisions of subdivision (3) of subsection (b) of this
75 section and the reasons such a waiver is necessary. In reviewing a
76 request for such a waiver, the commissioner shall consider design
77 safety, costs and other factors deemed appropriate by the
78 commissioner.

79 (d) The chief elected official of a municipality or said official's
80 designee may waive the provisions of subdivision (4) of subsection (b)
81 of this section when, after a request for such a waiver has been made

82 and reviewed, said official or said official's designee determines that
83 such a waiver is necessary for the lighting application. Requests for
84 such a waiver shall be made to said official or said official's designee in
85 such form as said official shall prescribe and shall include, without
86 limitation, a description of the lighting plan, a description of the efforts
87 that have been made to comply with the provisions of subdivision (4)
88 of subsection (b) of this section and the reasons such a waiver is
89 necessary. In reviewing a request for such a waiver, said official shall
90 consider design safety, costs and other factors deemed appropriate by
91 said official.

92 [(d)] (e) The provisions of this section shall not apply to the
93 installation or replacement of luminaires for which the Secretary of the
94 Office of Policy and Management (1) conducts a life-cycle cost analysis
95 of one or more luminaires which meet the requirements set forth in
96 subsection (b) of this section and one or more luminaires which do not
97 meet such requirements, and (2) certifies that a luminaire which meets
98 such requirements is not cost effective and is not the most appropriate
99 alternative based on the life-cycle cost analysis.

TRA *Joint Favorable Subst.*