



General Assembly

Amendment

February Session, 2002

LCO No. 3750

HB0553203750HDO

Offered by:

REP. O'ROURKE, 32nd Dist.
REP. FAHRBACH, 61st Dist.
REP. PANARONI, 102nd Dist.
REP. GODFREY, 110th Dist.
REP. FLEISCHMANN, 18th Dist.
REP. SPALLONE, 36th Dist.
REP. MCCLUSKEY, 20th Dist.
REP. URBAN, 43rd Dist.

REP. CARDIN, 53rd Dist.
REP. JANOWSKI, 56th Dist.
REP. CARUSO, 126th Dist.
REP. BACKER, 121st Dist.
REP. FONTANA, 87th Dist.
REP. MUSHINSKY, 85th Dist.
REP. FLOREN, 149th Dist.

To: Subst. House Bill No. 5532

File No. 138

Cal. No. 100

"AN ACT REQUIRING REDUCTION IN GLARE AND LIGHT POLLUTION FROM PRIVATE AREA FLOODLIGHTING LOCATED WITHIN THE STATE RIGHT-OF-WAY."

1 After line 52, insert the following:

2 "Sec. 2. (NEW) (*Effective October 1, 2002*) (a) As used in this section:

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

6 (2) "Full cut-off luminaire" means a luminaire that allows no direct
7 light emissions above a horizontal plane through the luminaire's

8 lowest light-emitting part;

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

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

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

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

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

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

20 (9) "Permanent outdoor luminaire" means any luminaire or system
21 of luminaires that is outdoors and intended to be used for seven days
22 or longer; and

23 (10) "State funds" means any bond revenues or any money
24 appropriated or allocated by the General Assembly.

25 (b) Except as provided in subsection (c) of this section, no state
26 funds shall be used to install or replace a permanent outdoor luminaire
27 for lighting on the grounds of any state building or facility unless (1)
28 the luminaire is designed to maximize energy conservation and to
29 minimize light pollution, glare and light trespass, (2) the luminaire's
30 illuminance is equal to the minimum illuminance adequate for the
31 intended purpose of the lighting, and (3) for a luminaire with a rated
32 output of more than one thousand eight hundred lumens, such
33 luminaire is a full cut-off luminaire.

34 (c) The Commissioner of Public Works, or the commissioner's
35 designee, may waive the provisions of subdivision (3) of subsection (b)

36 of this section when, after a request for such a waiver has been made
37 and reviewed, the commissioner or the commissioner's designee
38 determines that such a waiver is necessary for the lighting application.
39 Requests for such a waiver shall be made to the commissioner or the
40 commissioner's designee in such form as the commissioner shall
41 prescribe and shall include, without limitation, a description of the
42 lighting plan, a description of the efforts that have been made to
43 comply with the provisions of subdivision (3) of subsection (b) of this
44 section and the reasons such a waiver is necessary. In reviewing a
45 request for such a waiver, the commissioner or the commissioner's
46 designee shall consider design safety, costs and other factors deemed
47 appropriate by the commissioner or the commissioner's designee.

48 (d) The provisions of this section shall not apply to the installation
49 or replacement of luminaires for which the Secretary of the Office of
50 Policy and Management (1) conducts a life-cycle cost analysis of one or
51 more luminaires which meet the requirements set forth in subsection
52 (b) of this section and one or more luminaires which do not meet such
53 requirements, and (2) certifies that a luminaire which meets such
54 requirements is not cost effective and is not the most appropriate
55 alternative based on the life-cycle cost analysis.

56 Sec. 3. (NEW) (*Effective July 1, 2002*) (a) There is established a
57 Commission to Study the Extent, Causes and Consequences of Light
58 Pollution in Connecticut.

59 (b) The commission shall consist of the following members:

60 (1) Four appointed by the speaker of the House of Representatives,
61 two of whom shall be members of the House of Representatives and
62 two of whom shall represent environmental organizations;

63 (2) Four appointed by the president pro tempore of the Senate, two
64 of whom shall be members of the Senate and two of whom shall
65 represent the Connecticut Dark Sky Association;

66 (3) Eight appointed by the Governor, one each of whom shall

67 represent the professional astronomy community of the state, the
68 amateur astronomy community of the state, the Illuminating
69 Engineering Society of North America, state or municipal law
70 enforcement, science educators at the secondary school level, and
71 municipal governments, and two of whom shall represent the two
72 electric utility distribution companies in the state;

73 (4) One appointed by the Commissioner of Environmental
74 Protection, who shall be an employee of the Department of
75 Environmental Protection;

76 (5) One appointed by the chairperson of the Public Utilities Control
77 Authority, who shall be an employee of the authority;

78 (6) One appointed by the Commissioner of Transportation, who
79 shall be an employee of the Department of Transportation;

80 (7) One appointed by the Commissioner of Public Works, who shall
81 be an employee of the Department of Public Works;

82 (8) One appointed by the Connecticut Energy Advisory Board, who
83 shall represent the board; and

84 (9) One appointed by the Connecticut Energy Conservation Board,
85 who shall represent the board.

86 (d) All initial appointments to the commission shall be made no
87 later than thirty days after the effective date of this section. Any
88 vacancy shall be filled by the appointing authority. The members of
89 the commission shall serve without compensation. The commission
90 shall elect a chairperson from its membership, who shall serve for a
91 term to be designated by the commission.

92 (e) The Commissioner of Environmental Protection shall, within
93 available resources, provide staffing for the commission.

94 (f) The commission shall:

95 (1) Study and document the sources of light pollution in
96 Connecticut;

97 (2) Study and document the consequences of light pollution in
98 Connecticut, including its impact on driving safety, nocturnal fauna,
99 astronomical research and observation, the natural beauty of the night
100 sky, and such other consequences the commission determines are
101 appropriate for its attention;

102 (3) Survey and document the technology and standards currently
103 available to minimize light pollution;

104 (4) Estimate the potential costs and savings, including the potential
105 impact on the state budget and the budgets of municipalities,
106 associated with the adoption of lighting practices that minimize light
107 pollution while meeting important illumination and safety lighting
108 requirements;

109 (5) Prepare recommendations for public and private action to
110 minimize light pollution in Connecticut, including, but not limited to,
111 appropriate legislation and regulation for consideration by the General
112 Assembly and municipalities; and

113 (6) Document annually the state's progress in reducing light
114 pollution, restoring the night sky, and reducing electricity use and
115 public expense.

116 (g) Not later than January 1, 2003, and annually thereafter until
117 January 1, 2007, the commission shall submit a report on its findings
118 and recommendations to the General Assembly, in accordance with
119 the provisions of section 11-4a of the general statutes. The commission
120 shall terminate on January 1, 2007."