



General Assembly

**Substitute Bill No. 5051**

February Session, 2006

\*        HB05051APP        041106        \*

**AN ACT CONCERNING LUMINAIRES AT STATE AGENCIES.**

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

- 1       Section 1. (NEW) (*Effective July 1, 2006*) (a) As used in this section:
- 2       (1) "Fixture" means the assembly that holds a lamp and may include  
3       an assembly housing, a mounting bracket or pole socket, a lamp  
4       holder, a ballast, a reflector or mirror and a refractor or lens;
- 5       (2) "Full cut-off luminaire" means a luminaire that allows no direct  
6       light emissions above a horizontal plane through the luminaire's  
7       lowest light-emitting part;
- 8       (3) "Glare" means direct light emitting from a luminaire that causes  
9       reduced vision or momentary blindness;
- 10      (4) "Illuminance" means the level of light measured at a surface;
- 11      (5) "Lamp" means the component of a luminaire that produces the  
12      light;
- 13      (6) "Light trespass" means light emitted by a luminaire that shines  
14      beyond the boundaries of the property on which the luminaire is  
15      located;
- 16      (7) "Lumen" means a unit of measurement of luminous flux;
- 17      (8) "Luminaire" means the complete lighting unit, including the

18 lamp and the fixture;

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

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

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

33 (c) The provisions of subdivision (3) of subsection (b) of this section  
34 shall not apply to luminaires located on the grounds of any  
35 correctional institution or facility administered by the Commissioner of  
36 Correction, required by federal regulations, required for storm  
37 operation activities performed by the Department of Transportation, or  
38 in a lighting plan for a Department of Transportation facility where  
39 less than twenty-five per cent of the luminaires are to be replaced. The  
40 Commissioner of Public Works, or the commissioner's designee, may  
41 waive the provisions of subdivision (3) of subsection (b) of this section  
42 with respect to luminaires on the grounds of any other state building  
43 or facility when, after a request for such a waiver has been made and  
44 reviewed, the commissioner or the commissioner's designee  
45 determines that such a waiver is necessary for the lighting application.  
46 Requests for such a waiver shall be made to the commissioner or the  
47 commissioner's designee in such form as the commissioner shall  
48 prescribe and shall include, without limitation, a description of the  
49 lighting plan, a description of the efforts that have been made to

50 comply with the provisions of subdivision (3) of subsection (b) of this  
 51 section and the reasons such a waiver is necessary. In reviewing a  
 52 request for such a waiver, the commissioner or the commissioner's  
 53 designee shall consider design safety, costs and other factors deemed  
 54 appropriate by the commissioner or the commissioner's designee.

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

63 Sec. 2. Subsection (d) of section 13a-143d of the general statutes is  
 64 repealed and the following is substituted in lieu thereof (*Effective July*  
 65 *1, 2006*):

66 (d) [Any luminaire] All luminaires in violation of any provision of  
 67 subsection (b) or (c) of this section operating prior to October 1, [2003]  
 68 2004, shall be brought into compliance with the requirements in  
 69 subsection (b) of this section [no later than October 1, 2005] in  
 70 accordance with the following schedule: Approximately twenty per  
 71 cent by October 1, 2006, approximately forty per cent by October 1,  
 72 2007, approximately sixty per cent by October 1, 2008, approximately  
 73 eighty per cent by October 1, 2009, and one hundred per cent by  
 74 October 1, 2010.

This act shall take effect as follows and shall amend the following sections:		
Section 1	<i>July 1, 2006</i>	New section
Sec. 2	<i>July 1, 2006</i>	13a-143d(d)

**GAE**      *Joint Favorable Subst.*

**APP**      *Joint Favorable*