
A BILL FOR AN ACT

RELATING TO LIGHT POLLUTION.

BE IT ENACTED BY THE LEGISLATURE OF THE STATE OF HAWAII:

1 SECTION 1. The legislature finds that the night sky is a
2 tremendously valuable natural and cultural resource for the
3 residents of and visitors to Hawaii. The dark night sky has
4 tremendous scientific value for astronomy and is vitally
5 important for wildlife in Hawaii, including seabirds, sea
6 turtles, pollinators, bats, and coral reefs. Dark night skies
7 are essential for maintaining Native Hawaiian cultural practices
8 and traditions that are closely tied to the visibility of the
9 night sky. In addition, public health and safety benefit from
10 the dark night sky.

11 The legislature further finds that unnecessary light
12 pollution threatens the dark night sky over the Hawaiian
13 islands. The legislature passed Act 287, Session Laws of Hawaii
14 2012 (also known as the Hawaii Night Sky Protection Act), to
15 address light pollution from state agencies. The Hawaii Night
16 Sky Protection Act implemented recommendations from the
17 starlight reserve committee, a temporary advisory committee



1 formed by Act 161, Session Laws of Hawaii 2009, to assist the
2 department of business, economic development, and tourism to
3 develop a statewide starlight reserve strategy to preserve the
4 quality of the night sky and its associated cultural,
5 scientific, astronomical, natural, and landscape-related values.
6 Act 185, Session Laws of Hawaii 2017, established the dark skies
7 protection advisory committee, whose purpose is to assist the
8 university of Hawaii in developing a statewide dark night skies
9 protection strategy.

10 Therefore, the purpose of this Act is to implement the
11 recommendations of the statewide dark night skies protection
12 strategy to prevent light pollution by establishing requirements
13 for outdoor light fixtures throughout the State.

14 SECTION 2. Chapter 201, Hawaii Revised Statutes, is
15 amended by adding a new section to be appropriately designated
16 and to read as follows:

17 "§201- Statewide dark night skies protection strategy;
18 establishment of outdoor light fixture requirements throughout
19 the State. (a) As used in this section:

20 "County" includes the city and county of Honolulu, county
21 of Hawaii, county of Kauai, and county of Maui.



1 "DLC-LUNA list" means a light fixture, retrofit kit, or
2 lamp on the DesignLights Consortium (DLC) Light Usage for Night
3 Applications (LUNA) Qualified Products List (QPL).

4 "Glare" means light emitted from an outdoor light fixture
5 with intensity enough to produce annoyance, discomfort, or a
6 reduction in a viewer's ability to see.

7 "Light trespass" means direct light emitted by an outdoor
8 light fixture that shines beyond the boundaries of the property
9 on which the outdoor light fixture is installed.

10 "Low wattage" means a light fixture on one plug or set of
11 light fixtures on one plug using five watts or less.

12 (b) Except as provided in subsection (o), beginning
13 July 1, 2027, all new outdoor light fixtures shall comply with
14 outdoor light fixture requirements for backlighting, uplight,
15 and glare pursuant to subsections (c) and (d), subject to the
16 appropriate county permit and inspection requirements thereof,
17 except for new outdoor light fixtures affecting turtle nesting
18 habitat.

19 (c) An outdoor light fixture is considered to comply with
20 backlighting, uplight, and glare lighting fixture requirements
21 when:



1 (1) The outdoor light fixture is on the DLC-LUNA list; or

2 (2) The outdoor light fixture has a maximum American

3 National Standards Institute (ANSI)/Illuminating

4 Engineering Society of North America (IES) Uplight

5 Rating of U1 per ANSI/IES TM-15-20, a correlated color

6 temperature that shall not exceed three thousand

7 Kelvin, a continuous dimming capability of twenty per

8 cent of maximum output power or lower, and has at

9 least one shielding option; provided that dimming

10 shall be performed automatically by a control system.

11 (d) In addition to the requirements of subsection (c), to

12 mitigate glare and light trespass, all outdoor light fixtures

13 shall be equipped with shielding, filters, lenses, or cutoff

14 devices required to eliminate light trespass onto any street or

15 abutting lot or parcel, to eliminate glare perceptible to

16 persons on any street or abutting lot or parcel and to minimize

17 uplighting.

18 (e) Outdoor light fixtures shall be extinguished or dimmed

19 by a minimum of seventy-five per cent during curfew hours,

20 unless otherwise superseded by county building codes. Light

21 trespass shall not occur, and outdoor light fixtures shall be



1 extinguished or dimmed, during curfew hours; provided that for a
2 commercial user, if normal operating hours end or begin between
3 10:00 p.m. and sunrise, curfew hours means between 10:00 p.m. or
4 one hour after closing, whichever is later, and sunrise or one
5 hour before opening, whichever is earlier.

6 (f) The following outdoor light fixtures are exempt from
7 the requirements of subsections (c), (d), and (e):

8 (1) Open flame gas lamps;

9 (2) Low-wattage fixtures used for holiday decorations;

10 (3) Outdoor advertising signs, when used during curfew
11 hours, if the signs are:

12 (A) Constructed of translucent material; and

13 (B) Illuminated totally from within and colored with
14 an opaque background using translucent letters or
15 symbols;

16 (4) Search lights used for advertising purposes, except
17 that the operation of such lights shall be limited to
18 the hours of dusk to 10:00 p.m.; and

19 (5) Emergency lighting required for public safety.

20 (g) Outdoor light fixtures affecting turtle nesting

21 habitats shall be exempt from subsections (c), (d), and (e);



1 provided that outdoor light fixtures affecting turtle nesting
2 habitats shall comply with section 205A-71 and this section
3 when:

4 (1) Designated as Turtle Lighting, Eero-Uplight fixtures
5 on the DLC-LUNA list; or

6 (2) The outdoor light fixture:

7 (A) Uses narrowband or direct-emission amber light-
8 emitting diodes with the sum of the optical
9 radiation between 380 nm to 560 nm equal to one
10 per cent or less of the total optical radiation
11 between 330 nm to 700 nm;

12 (B) Has a maximum ANSI/IES Uplight Rating of U0 and a
13 maximum glare rating of B1 per ANSI/IES TM-15-20,
14 unless otherwise stated;

15 (C) Has a continuous dimming capability of twenty per
16 cent of maximum output power or lower; and

17 (D) Has at least one shielding option for pole-
18 mounted light fixtures.

19 (h) Pole-mounted outdoor light fixtures shall have a
20 maximum light output of 10,000 lumens. All pole-mounted outdoor



1 light fixtures shall face away from the shoreline and have a
2 house side shield to ensure that the light source is:

3 (1) Not visible from sea turtle nests or the waterline;

4 and

5 (2) Six inches above the waterline at turtle eye height.

6 (i) Wall-mounted or ceiling- or canopy-mounted outdoor

7 light fixtures shall have a maximum light output of 2,500

8 lumens. All wall-mounted or ceiling-mounted outdoor light

9 fixtures that face the shoreline shall be shielded so that the

10 light source is:

11 (1) Not visible from sea turtle nests or the waterline;

12 and

13 (2) Six inches above the waterline at turtle eye height.

14 (j) Bollards shall have a maximum light output of 1,000

15 lumens and an ANSI/IES Glare Rating of B0. All bollards that

16 face the shoreline shall be shielded so that the light source

17 is:

18 (1) Not visible from sea turtle nests or the waterline;

19 and

20 (2) Six inches above the waterline at turtle eye height.



1 (k) All outdoor light fixtures planned and approved by the
2 counties or existing and legally installed prior to June 30,
3 2026, are exempt from the requirements of subsections (c), (d),
4 and (e); provided that when existing outdoor light fixtures
5 become inoperable, the outdoor light fixtures that replace them
6 shall comply with the requirements of this section.

7 (l) Outdoor light fixtures for airports, highways, and
8 harbors shall comply with this section, except as required by
9 any safety regulation or federal law, regulation, or mandate,
10 pursuant to sections 262-4.5, 264-45, and 266-2.5, respectively.

11 (m) This section shall be considered to be supplemental to
12 any county lighting ordinance or rule and shall not be construed
13 to supersede or modify any county lighting ordinance or rule;
14 provided that:

15 (1) The county lighting ordinance or rule is not less
16 restrictive than this section; and

17 (2) This section shall not apply to counties with
18 populations of less than one hundred thousand persons.

19 (n) This section shall be construed in conjunction with
20 section 201-8.5.



1 (o) Notwithstanding subsection (b), all outdoor light
2 fixtures planned and approved for department of education
3 facilities by any county, or existing and legally installed
4 prior to June 30, 2026, or that are in design prior to July 1,
5 2027, shall be exempt from the requirements of this section.
6 This exemption shall include outdoor lighting fixtures used for
7 school and public safety, campus security, emergency response,
8 or other school-authorized activities.

9 (p) As used in this section, "curfew hours" means:

10 (1) For residential uses: between 10:00 p.m. to sunrise;

11 and

12 (2) For all commercial users: between 10:00 p.m. and

13 sunrise, except as otherwise provided in this

14 section."

15 SECTION 3. New statutory material is underscored.

16 SECTION 4. This Act shall take effect on July 1, 3000.



Report Title:

Light Pollution; Outdoor Light Fixtures

Description:

Beginning 7/1/2027, establishes outdoor light fixture requirements throughout the State. Provides certain exemptions for Department of Education facilities. Effective 7/1/3000.
(HD1)

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