

**FINAL EMERGENCY EXPRESS TERMS  
FOR  
PROPOSED BUILDING STANDARDS  
OF THE  
DIVISION OF THE STATE ARCHITECT –STRUCTURAL SAFETY (DSA-SS)  
IN THE  
2010 CALIFORNIA GREEN BUILDING STANDARDS CODE  
CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 11**

**LEGEND FOR EXPRESS TERMS**

1. Existing California amendments or code language being modified appears in *italics*, with modified language underlined.
2. Repealed text appears in ~~strikeout~~.

**EXPRESS TERMS**

**SECTION A5.106  
SITE DEVELOPMENT**

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*[The following section is moved from voluntary Appendix A5 to mandatory Chapter 5]*

**A5.106.8 Light pollution reduction.** Outdoor lighting systems shall be designed and installed to comply with the following:

1. The minimum requirements in the California Energy Code for Lighting Zones 1-4 as defined in Chapter 10 of the California Administrative Code; and
2. Backlight, Uplight and Glare (BUG) ratings as defined in IESNA TM-15-~~0711~~; and
3. Allowable BUG ratings not exceeding those shown in Table ~~A5.106.8~~, or

Comply with a local ordinance lawfully enacted pursuant to Section 101.7, whichever is more stringent.

**Exceptions:**

1. Luminaires that qualify as exceptions in Section 147 of the California Energy Code
2. Emergency lighting

**Note:** See also California Building Code, Chapter 12, Section 1205.6 for college campus lighting requirements for parking facilities and walkways.

**5.106.8.1 Effective date.** Newly constructed nonresidential projects with outdoor lighting for which an application for a building permits is submitted on or after July 1, 2012 shall comply with this section.

**TABLE ~~A5.106.8~~**  
Maximum Allowable Backlight, Uplight and Glare (BUG) Ratings<sup>1,2</sup>

Allowable Rating	Lighting Zone 1	Lighting Zone 2	Lighting Zone 3	Lighting Zone 4
<del>Maximum Allowed</del> <u>Maximum Allowable</u> Backlight Rating <sup>3</sup>				
<del>Luminaire g</del> <u>Luminaire</u> Greater than 2 mounting heights (MH) from property line	<del>B3</del> <u>No Limit</u>	<del>B4</del> <u>No Limit</u>	<del>B5</del> <u>No Limit</u>	<del>B5</del> <u>No Limit</u>
<del>Luminaire back hemisphere is 1 – 2 mounting heights MH from property line and oriented with B towards the property line</del>	B2	B3	B4	B4
<del>Luminaire back hemisphere is 0.5 – 1 MH mounting height from property line and oriented with B towards the property line</del>	B1	B2	B3	B3
<del>Luminaire back hemisphere is l</del> <u>Less than 0.5 MH mounting height from property line and oriented with B towards the property line</u>	B0	B0	B1	B2
<del>Less than 0.5 mounting height from property line adjacent to a street and oriented with B towards</del>	<del>B0</del>	<del>B1</del>	<del>B2</del>	<del>B3</del>

the property line <sup>2</sup>				
Maximum Allowable Uplight Rating	U0	U1	U2	U3
For area lighting <sup>4</sup>	U0	U0	U0	U0
For all other outdoor lighting, including decorative luminaires	U1	U2	U3	U4
Maximum Allowable Glare Rating <sup>2,5</sup>	G1	G2	G3	G4
Allowed Glare Rating, Building Mounted Luminaires <sup>3</sup>				
Luminaire greater than 2 MH mounting height to any from property line	G1	G2	G3	G4
Luminaire front hemisphere is 1 – 2 MH mounting height to any from property line	G0	G1	G1	G2
Luminaire front hemisphere is 0.5 – 1 mounting height to any from property line	G0	G0	G1	G1
Luminaire back hemisphere is Less than 0.5 mounting height to any from property line	G0	G0	G0	G1

1 IESNA Lighting Zones 0 and 5 are not applicable; refer to Lighting Zones as defined in the California Energy Code and Chapter 10 of the California Administrative Code.

2 For purposes of compliance with this section, the property line may be considered to be the centerline of a public roadway or transit line. For properties adjacent to public walkways, bikeways, plazas and parking lots, the property line may be considered to be five feet beyond the site boundary. For property lines that abut public walkways, bikeways, plazas, and parking lots, the property line may be considered to be 5 feet beyond the actual property line for purpose of determining compliance with this section. For property lines that abut public roadways and public transit corridors, the property line may be considered to be the centerline of the public roadway or public transit corridor for the purpose of determining compliance with this section.

3 Building-mounted luminaires that cannot be mounted with their backlight to the property line shall meet the Allowed Glare rating for all luminaires. Light from a building-mounted luminaire shall not exceed the Backlight rating in the direction of the property line. If the nearest property line is less than or equal to two mounting heights from the back hemisphere of the luminaire distribution, the applicable reduced Backlight rating shall be met.

4 General lighting luminaires in areas such as outdoor parking, sales or storage lots shall meet these reduced ratings. Decorative luminaires located in these areas shall meet U value limits for “all other outdoor lighting”.

5 If the nearest property line is less than or equal to two mounting heights from the front hemisphere of the luminaire distribution, the applicable reduced Glare rating shall be met.

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Notation

Authority – Education Code Sections 17310 and 81142

Reference – Education Code Sections 17280--17317 and 81130-81147