

MANDATORY MEASURES

SIGNAGE

(Reference: Sub-Chapter 4, Section 130.3)

REQUIRED CONTROLS

Outdoor sign lighting must be automatically controlled by one of the following two options:

1. A photocontrol *and* an automatic time switch
or
2. An astronomical time switch

All outdoor sign lighting that is on during the day and night must be equipped with a control that provides the ability to automatically reduce the lighting power of the sign at least 65% at night.

Indoor signs must be equipped with:

1. An astronomical time switch
or
2. An automatic time switch

DEMAND RESPONSE FOR EMCs

An **Electronic Message Center (EMC)** is an electronically controlled sign that produces pixelated images using any type of light source or lighting system.

An EMC that has a connected lighting power load larger than 15 kW must have a control installed that can reduce lighting power at least 30% in response to a demand response (DR) signal.



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ENERGY COMPLIANCE

Signs must also:

1. Comply with an allowed lighting power maximum
or
2. Use one of several approved and compliant light sources

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INTERNALLY ILLUMINATED SIGNS

Internally illuminated signs may use no more than **12 W/ft²** of the illuminated sign area. For double-faced signs, only the area of one of the faces needs to be counted.



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EXTERNALLY ILLUMINATED SIGNS

Externally illuminated signs may use up to **2.3 W/ft²** of illuminated sign area. If both faces are lit, then both must be counted.



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COMPLIANT LIGHT SOURCES

If a sign is only equipped with one of the following light sources, it does not need to meet the allowed lighting power requirements:

1. High pressure sodium (HPS) lamps
2. Metal halide (MH) lamps that are pulse start or ceramic with a ballast that has a minimum efficiency of 88%
3. Neon or cold cathode lamps with transformer or power supply efficiency of:
at least 75% for a rated output current less than 50 mA
greater than 68% when the rated output current is at least 50 mA
4. Fluorescent lighting systems that only use lamps with a CRI over 80 or only use electronic ballasts with an output frequency greater than 20 kHz
5. LEDs with a power supply efficiency of at least 80%
6. CFLs that do not use a medium screw-base socket