

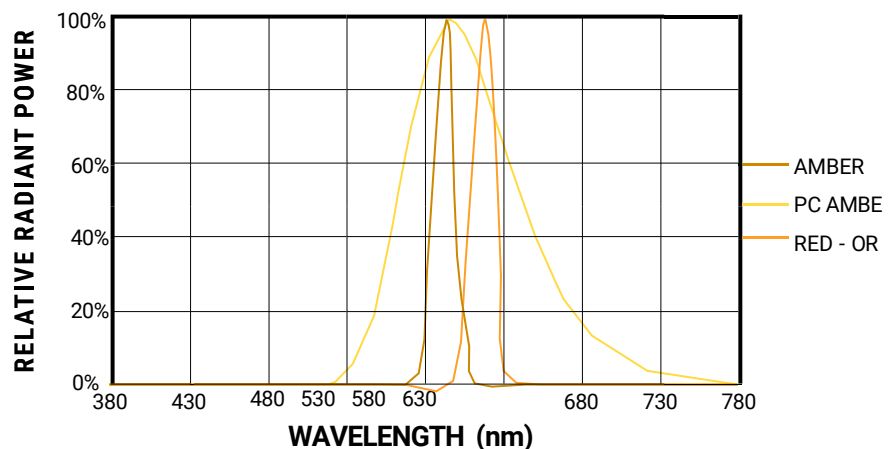
AMBER LED

Integrated 590nm LED for wildlife, observatories and special applications

The responsible use and management of artificial lighting are essential not only for ensuring safety and security but also for preserving our natural environment. One critical issue is the decline of sea turtle populations worldwide, a crisis exacerbated by improper lighting in coastal areas. Implementing appropriate lighting solutions is crucial to their recovery. To address this, long-wavelength amber LEDs have been proven to significantly minimize the environmental impact of coastal lighting when used correctly*. Recognizing their effectiveness, these LEDs are now standard in various outdoor luminaires designed for site and area lighting, wall-mounted fixtures, roadways, and pedestrian pathways, offering a sustainable solution for both human and wildlife needs.

In addition, narrow-band, monochromatic amber LEDs with a precise wavelength of $590\text{nm} \pm 5\text{nm}$ offer significant advantages in environments where artificial light needs to be carefully managed. These LEDs are particularly beneficial near observatories, as their specific wavelength can be effectively filtered to minimize interference with astronomical observations, ensuring optimal performance. Beyond scientific applications, their warm color temperature makes them an excellent choice for specialized settings that require reliable, low-maintenance lighting solutions while preserving the familiar appearance of traditional light sources. This combination of functionality and sustainability makes them a valuable option for a wide range of lighting needs.

- True narrow-band, monochromatic amber in 590nm, $\pm 5\text{ nm}$, not phosphor-converted (PC) or red-orange LED
- Offered in multiple optical distributions; view product specifications for details
- Available for use with house side shield (HSS) option
- Drive current optimized for maximum efficiency, output and life



* For additional information on the impact of artificial lighting on coastal environments, see Witherington, B. E., R. E. Martin and R. N. Trindell. 2014. Understanding, assessing, and resolving light-pollution problems on sea turtle nesting beaches, revised. Florida Fish and Wildlife Research Institute Technical Report TR-2. vii + 83 p.

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Supplemental guide

Product Availability

Series	Brand	Category
BRT6 Bollard	McGraw-Edison	Bollard and Pathway
Cambria 203	Lumière	Accent and Flood
Cambria 206	Lumière	Bollard and Pathway
Cambria 213	Lumière	Accent and Flood, Specialty Application
Cambria 230	Lumière	Accent and Flood
Cambria 920	Lumière	Specialty Application, Sign
ClearCurve Pedestrian	Invue	Decorative
ClearCurve Wall	Invue	Wall Mount
Eon 303 Accent	Lumière	Accent and Flood
Eon 303 Bollard	Lumière	Bollard and Pathway
Eon 303 Pathway	Lumière	Bollard and Pathway
Eon 303 Sign & Ceiling	Lumière	Specialty Application, Sign
Eon 303 Wall	Lumière	Wall Mount
Epic	Invue, Streetworks	Decorative, Area and Site
Galleon II	McGraw-Edison, Streetworks	Area and Site
GAN Adjustable	Streetworks	Flood and Motion
GAN Galleon	McGraw-Edison, Streetworks	Area and Site, Flood and Motion
Galleon Wall	Streetworks	Wall Mount
Galleon II Floodlight	McGraw-Edison	Flood and Motion
Galleon Adjustable	McGraw-Edison, Streetworks	Area and Site, Flood and Motion
Galleon Pedestrian Companion	Invue	Decorative, Wall Mount
Galleon Wall	McGraw-Edison	Wall Mount
Infrastructure Flood	Streetworks	Flood and Motion
Impact Elite Wall Series	McGraw-Edison	Wall Mount
Lexington	Streetworks	Decorative
LuxeScape Series	Invue	Decorative
Mesa	Invue	Decorative
Navion	Streetworks, Lumark	Area and Site
Mesa	Streetworks	Decorative
Springdale	Streetworks	Decorative
TopTier Site	McGraw-Edison	Area and Site
UTLD Traditionaire	Streetworks	Decorative
Westwood 903 Flood	Lumière	Wall Mount
Westwood 904	Lumière	Wall Mount

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Printed in USA
Publication No. SA525295EN
March 19, 2025

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