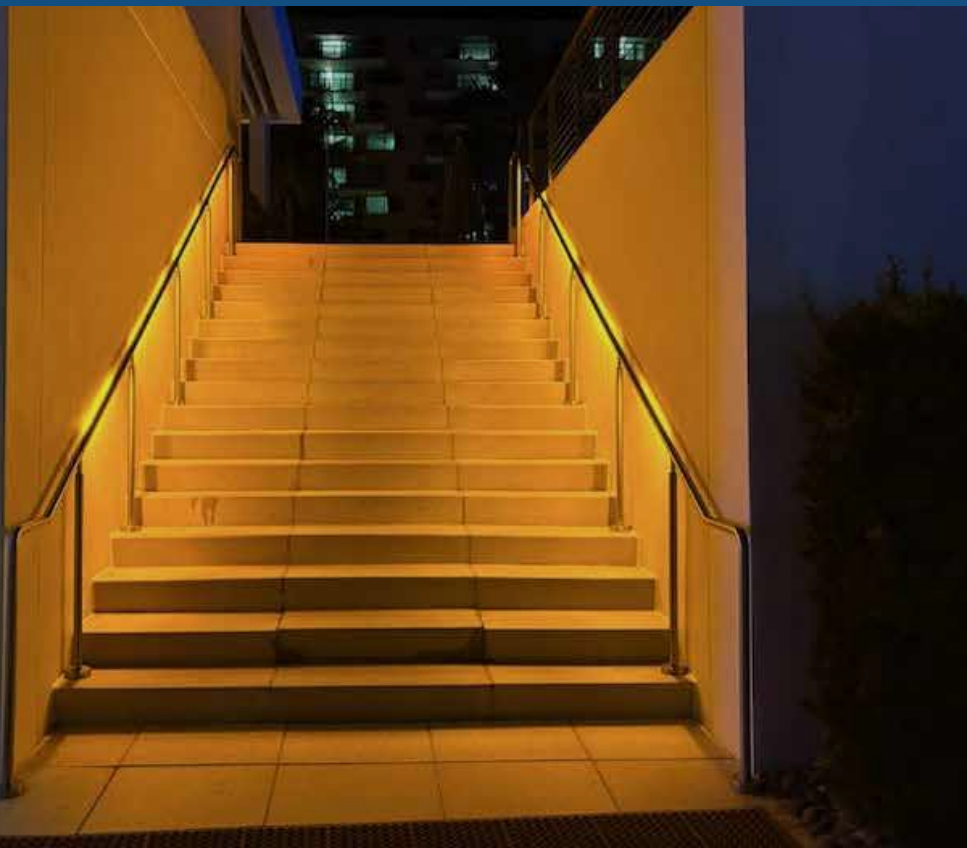




COASTAL TURTLE FRIENDLY LED LIGHTING



ZLEDTM
LIGHTING
ZLEDLIGHTING.COM



FWC Sea Turtle Lighting Guidelines

The Florida Fish and Wildlife Conservation Commission (FWC) is one of the leading organizations leading the charge to protect the Sea Turtles. Go to www.myfwc.com for more information. FWC recommends to beachfront residential and commercial buildings follow **three simple golden rules**:

1. LOW

2. SHIELDED

3. LONG

KEEP IT LOW:

- Fixtures must be mounted as low as possible to achieve required light levels.
- Lamps must produce the lowest wattage/lumens necessary for the needed purpose.

KEEP IT SHIELDED:

- Fixtures must be completely downward directed.
- Fixtures must shield the lamp from the beach.

KEEP IT LONG:

- Lamps must produce only long wavelength light (560 nm or greater with is amber, orange or red).

What is Recommended

ACCEPTABLE FIXTURES

All exterior lights proposed for the seaward or shore side of a structure, should be well-shielded, full cut-off, downward direction fixtures with a long-wavelength light source (wavelength reading of 560 nanometers (nm) or higher.

ACCEPTABLE LAMPS

All fixtures visible from the beach should have a long wavelength lamp – a bulb that looks amber or red because it only produces light with wavelengths of 560 nm or higher. While light can disorient nesting sea turtles and their hatchlings, leading them away from the water. True red, orange or amber LEDs are a great source of light.



MARINA



WALKWAY



RESTAURANT / RETAIL



RESIDENTIAL

Coastal Turtle Friendly 585NM Amber Lamps

LED CORN LAMPS

Applications: Beach front open + enclosed fixtures

12W

- **Color Temp:** Amber
- **Input Voltage:** 120/277VAC -480V
- **Dimensions:** 2.36" x 4.92"
- **Base:** E26
- **Wavelength:** 585 nanometers
- **Part #:** C-E26-IP64-12-AMBER-TURTLE-MINI



15W

- **Color Temp:** Amber
- **Input Voltage:** 120/277VAC -480V
- **Dimensions:** 2.52" x 5.91"
- **Base:** E26
- **Wavelength:** 585 nanometers
- **Part #:** C-E26-IP64-15-585NM-TURTLE-MINI



25W

- **Color Temp:** Amber
- **Input Voltage:** 120/277VAC -480V
- **Dimensions:** 2.52" x 5.91"
- **Base:** E26
- **Wavelength:** 585 nanometers
- **Part #:** C-E26-IP64-25-585NM-NC-TURTLE-MINI



85W

- **Wattages:** 85/65/50/40/30W Selectable
- **Color Temp:** Amber
- **Input Voltage:** 120/277VAC -480V
- **Dimensions:** 4.17" x 6.89" (EX39)
- **Base:** E26, EX39
- **Wavelength:** 585 nanometers
- **Part #:** C-E26-85/65/50/40W-585NM-NC-STUB-D-2
C-EX39-85/65/50/40W-585NM-NC-STUB-D-2



LED CORN LAMPS - HIGH EFFICIENCY

60W

- **Wattages:** 60/50/40/30W Selectable
- **Color Temp:** Amber
- **Input Voltage:** 100-277V
- **Dimensions:** E26: 4.17" x 7.78"
EX39: 4.17" x 8.27"
- **Base:** E26, E39
- **Wavelength:** 585 nanometers
- **Part #:** C-E26-60/50/40/30W-NC-TURTLE-HE
C-EX39-60/50/40/30W-NC-TURTLE-HE



100W

- **Wattages:** 100/80/60/50W Selectable
- **Color Temp:** Amber
- **Input Voltage:** 100-277V
- **Dimensions:** E26: 4.17" x 9.84"
EX39: 4.17" x 10.24"
- **Base:** E26, E39
- **Wavelength:** 585 nanometers
- **Part #:** C-EX39-100/80/60/50W-NC-TURTLE-HE



180° TURTLE FRIENDLY PADDLE LAMP

- **Wattages:** 40W, 60W, 80W, 100W, 120W, 150W
- **Color Temp:** Amber 585NM
- **Input Voltage:** 100-277VAC
- **Dimensions:** 3.94" x 9.25" x 2.72"
5.12" x 11.54" x 3.82"
- **Base:** E26 - 40W, 60W; E39 - all Wattages
- **Wavelength:** 585 nanometers
- **Part #:** ZL-NS-ARK-E26-40-585NM-AMBER
ZL-NS-ARK-E39-40-585NM-AMBER
ZL-NS-ARK-E26-60-585NM-AMBER
ZL-NS-ARK-E39-60-585NM-AMBER
ZL-NS-ARK-E39-80-585NM-AMBER
ZL-NS-ARK-E39-100-585NM-AMBER
ZL-NS-ARK-E39-120-585NM-AMBER
ZL-NS-ARK-E39-150-585NM-AMBER

The 180-degree beam angle paddle design allows for focused light distribution in one direction, making it ideal for applications where directed lighting is necessary. This can enhance visibility and reduce wasted light, making them more efficient than traditional LED corn lamps, which often emit light in all directions.

Commonly used in street lights, wall packs and area lights. The 585NM LED chips are turtle friendly based on the FWC Specs for Sea Turtle Lighting.



Energy Efficient

One Sided LEDs only 180D



Coastal Turtle Friendly 585NM Amber Lamps

DIRECTIONAL LED CORN LAMPS

Applications: Post top retrofit

WATTAGE	COLOR TEMP	INPUT VOLTAGE	DIMENSIONS	BASE	WAVELENGTH	PART NUMBER
15W	Amber	100-277V	3.7" x 1"	E26	585 nanometers	C-E26-CL-15W-585NM-NC-DIRECTIONAL
20W	Amber	100-277V	3.7" x 1"	E26	585 nanometers	C-E26-CL-20W-585NM-NC-DIRECTIONAL
30W	Amber	100-277V	3.7" x 1"	E26	585 nanometers	C-E26-CL-30W-585NM-NC-DIRECTIONAL
40W	Amber	100-277V	3.7" x 8.26"	E26	585 nanometers	C-E26-CL-40W-585NM-NC-DIRECTIONAL
60W	Amber	100-277V	3.7" x 8.50"	E26	585 nanometers	C-E26-CL-60W-585NM-NC-DIRECTIONAL



LED panels can be adjusted to a variety of angles.

PL LAMPS

6W + 8W

- **Color Temp:** Amber
- **Input Voltage:** 100-277V
- **Dimensions:** 4.92" x 1.57"
- **Base:** E26, G24, GX24, B22, G23, GX23
- **Wavelength:** 585 nanometers
- **Part #:** PL-E26-6W-585NM-NC-7R
PL-E26-8W-585NM-NC-7R



10W + 12W

- **Color Temp:** Amber
- **Input Voltage:** 100-277V
- **Dimensions:** 6.88" x 1.57"
- **Base:** E26, G24, GX24, B22, G23, GX23
- **Wavelength:** 585 nanometers
- **Part #:** PL-E26-10W-585NM-NC-7R
PL-E26-12W-585NM-NC-7R



24V TAPE LIGHT



- **Color Temp:** Amber
- **Wavelength:** 585-595 nanometers
- **10m roll**
- **Must be shielded when facing ocean**
- **Part #:** TAPE-24V-AMBER

HID OUTDOOR RETROFIT KIT

- **Wattages:** 60W, 100W, 150W, 200W
240W, 300W, 360W
- **Color Temp:** Amber
- **Input Voltage:** 100/277V
- **Dimensions:** 6.88" x 1.57"
- **Base:** E26 medium, E39/EX39 mogul, insert
- **Wavelength:** 590 nanometers
- **Part #:** ZL-HIDRP-60W-590NM-AMBER
ZL-HIDRP-100W-590NM-AMBER
ZL-HIDRP-150W-590NM-AMBER
ZL-HIDRP-200W-590NM-AMBER
ZL-HIDRP-240W-590NM-AMBER
ZL-HIDRP-300W-590NM-AMBER
ZL-HIDRP-360W-590NM-AMBER





Amber Retrofit Kits For Turtle Safe Lighting



Amber Magnilumen Plus bars are great retrofits for fixtures in garages, parking lots, outdoor docks and decks, pool structures, and more. Available in 2 and 4 foot lengths to accommodate almost any retrofit project for turtle safety.

- **Max Wattage Per Bar:** 2 foot: 15W / 4 foot: 30W
- **Color Temp:** Amber
- **Input Voltage:** 100-277V
- **Dimensions:** 2 feet (21"); 4 feet (43")
- **Wavelength:** 585-590 nanometers
- **Part Number:** 2 ft: MRK-LED-BAR-2FT-AMBER-PLUS-585-NM
Qty 2 x 2ft Amber Led Bars and 1 x 20 Watt Driver
4 ft: MRK-LED-BAR-4FT-AMBER-PLUS-585-NM
Qty 2 x 4ft Amber Led Bars and 1 x 40 Watt Driver



COMPLETE VAPOR TIGHT FIXTURES FOR TURTLE SAFE LIGHTING



Vapor Tight Kit comes complete and ready for immediate installation. Kits include vapor tight fixture, amber bars, and a driver ready in options of a 2 or 4 foot length. Frosted Lens Standard.

Complete Vapor Tight With Amber Magnilumen Plus Light Engine and Driver

LENGTH	VAPOR TIGHT INCLUDES	PART NUMBER
2 foot	2 x 2ft. Amber LED Bars 20W Driver	ZL-CIT2-LED-2FT-AMBER-585
4 foot	2 x 4ft. Amber LED Bars 20W Driver	ZL-CIT2-LED-4FT-AMBER-585



OPTIONS AVAILABLE:
Emergency Kit
Motion Sensor

OPTIONAL SHIELD FOR BEACH-FACING VAPOR TIGHT FIXTURES FOR TURTLE COMPLIANT LIGHTING



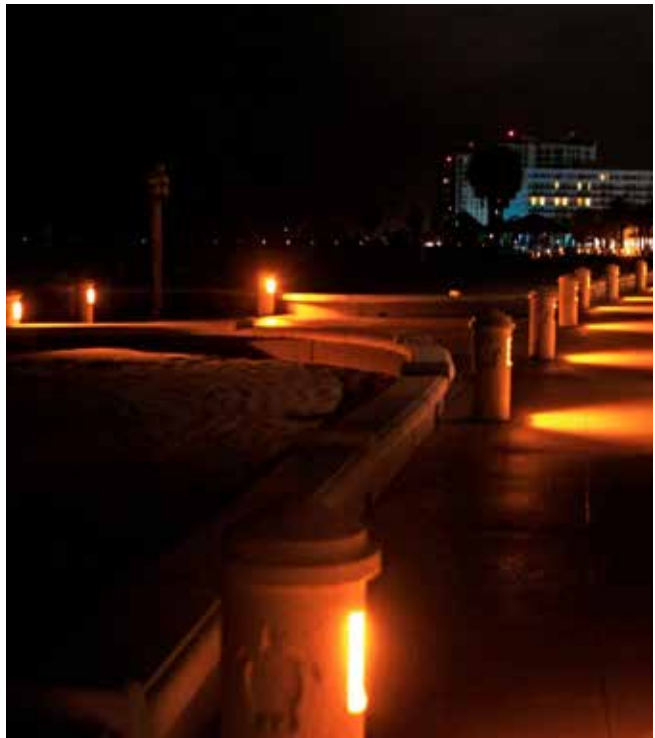
- **Part Number:** ZL-2FT-Vapor-Bracket
ZL-4FT-Vapor-Bracket



Three-sided shield directs light downward and away from beach.
Two end shields measure 4.5" x 2"
Length of vapor tight shield: 2 ft: 24" x 2"; 4 ft: 45.5" x 2"

NOTE: Color of lighting may appear differently in photos.

PROJECT GALLERY



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