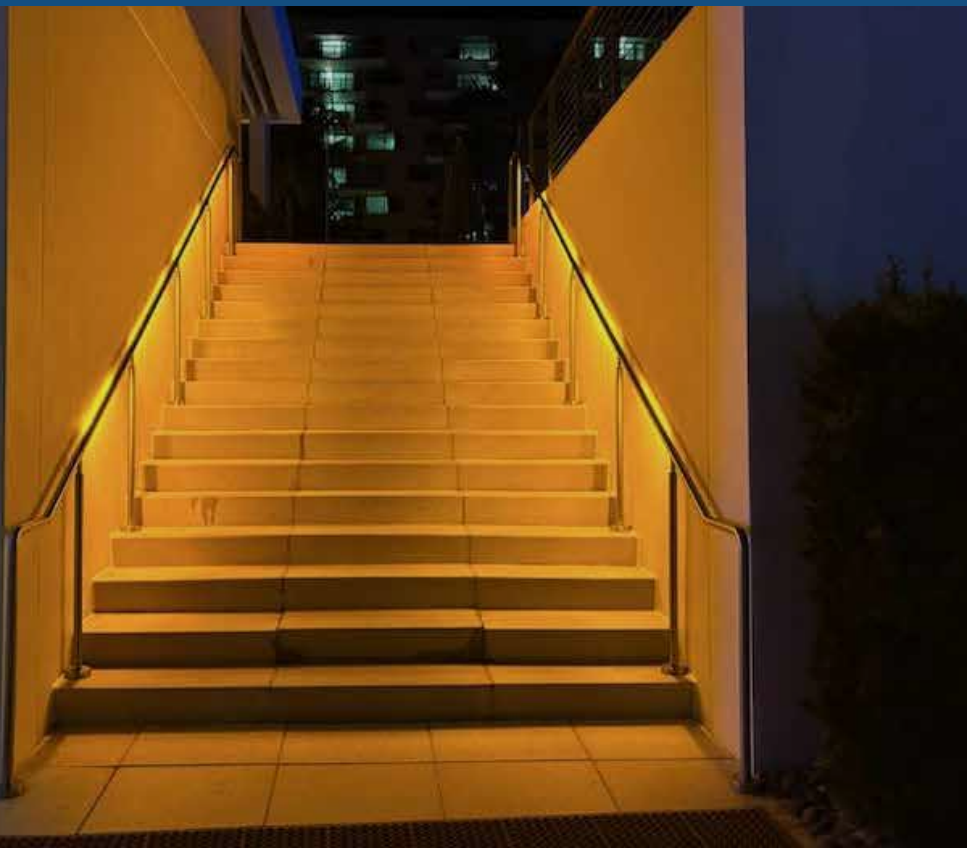




## COASTAL TURTLE FRIENDLY LED LIGHTING



**Z** ZLED<sup>TM</sup>  
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](http://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:** 100-277V
- **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:** 100-277V
- **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:** 100-277V
- **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:** 100-277VAC
- **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 DEGREE 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.

These lights are commonly used in high bay fixtures, streetlights, and other industrial or commercial settings.



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



## 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





## Amber Retrofit Kits for Linear Fixtures



### KIT INCLUDES:

Qty 2 LED Amber Bars 2ft or 4ft  
 Qty 1 LED Driver with Harness  
 20W = 2ft Kit  
 40W = 4ft Kit



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  
 4 ft: MRK-LED-BAR-4FT-AMBER-PLUS-585-NM

## VAPOR TIGHT FIXTURE WITH AMBER MAGNILUMEN PLUS BARS



### OPTIONS AVAILABLE:

Emergency Kit  
 Motion Sensor

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.

KIT	KIT INCLUDES	PART NUMBER
2 foot	2 foot vapor tight fixture Two amber bars Driver	ZL-CIT2-LED-2FT-AMBER-585
4 foot	4 foot vapor tight fixture Two amber bars Driver	ZL-CIT2-LED-4FT-AMBER-585

## OPTIONAL SHIELD FOR BEACH-FACING VAPOR TIGHT FIXTURES



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



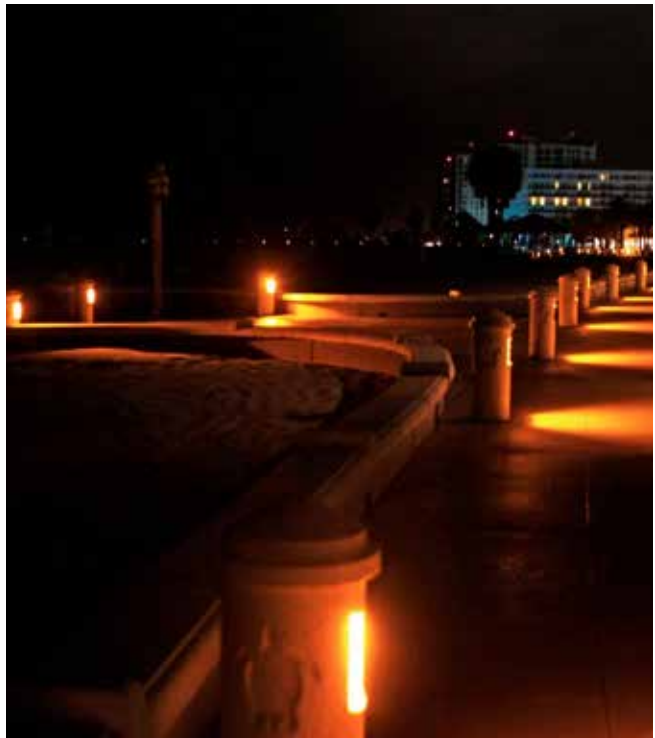
Three-sided shield directs light downward and away from beach.  
 Two end shields measure 4.5" x 2"  
 Length of vapor tight shield measures 45.5" x 2"

NOTE: Color of lighting may appear differently in photos.

Specifications and actual product may vary.

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PROJECT GALLERY



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