

SEA TURTLE FRIENDLY LIGHTING



The Florida Fish and Wildlife Conservation Commission (FWC) has developed a model lighting ordinance as a guideline to help coastal counties and municipalities in Florida develop their own local ordinances to protect sea turtles from the adverse effects of artificial lighting.

When retrofitting fixtures for beachfront commercial and residential property, proper Sea Turtle lighting can provide adequate lighting for safety, attractiveness and compliance with beachfront lighting ordinances.

ZLEDLighting's Magnilumen Plus retrofit boards are sea turtle-friendly because they utilize long-wavelength light of 585 nanometers or longer.

Go to www.myfwc.com for complete turtle light information.

MAGNILUMEN PLUS AMBER RETROFITS FOR LINEAR FIXTURES

- **Max Wattage Per Board:**
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: MRK2220-TURTLE-PLUS
4 ft: MRK2430-TURTLE-PLUS
- **Applications:** Parking lots, outdoor docks, and pool structures



Specifications and actual product may vary.

Office (800) 679-9243 • sales@zledlighting.com • www.zledlighting.com

TEST: MRK2220-TURTLE-PLUS

Lightsource Test Report

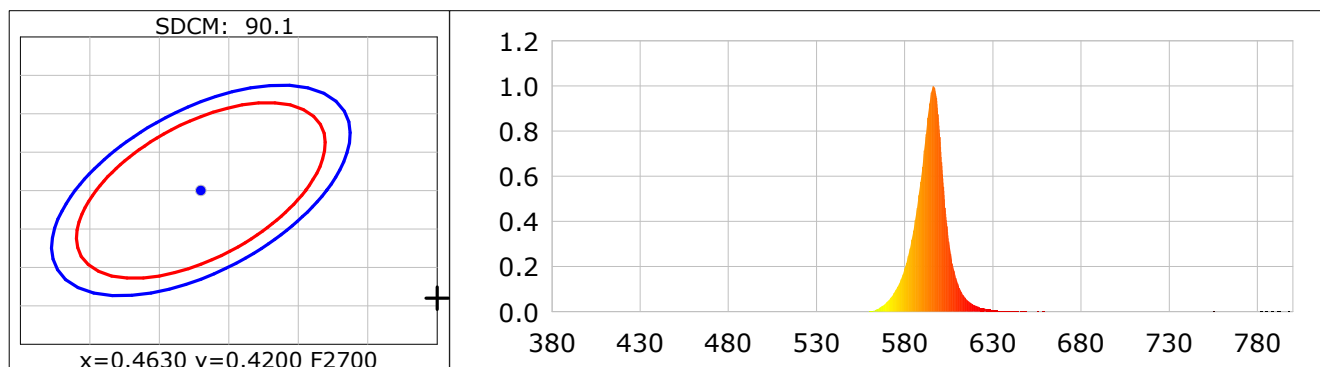
Product Infomation

Product Number: 37

CIE Colorimetric Parameters

Chromaticity coordinates: $x=0.5926$ $y=0.4060$ $u(u')=0.3545$ $v=0.3643$ $v'=0.5465$
CCT: $T_c=1526K$ ($duv=0.00389$) Color Ratio: $R=0.214$ $G=0.786$ $B=0.000$
Peak Wavelength: 596.3nm Half Bandwidth: 14.9nm
Dominant Wavelength: 593.2nm Color Purity: 0.997
CRI: $R_a=-26.0$ TM30: $R_f= 2$, $R_g= 5$
GAI: $GAI_BB_8=0.6$, $GAI_BB_15=0.7$, $GAI_EES=0.1$

R1 = -41	R2 = 50	R3 = 12	R4 = -74	R5 = -44	R6 = 45	R7 = -15	R8 = -141
R9 = -397	R10 = 30	R11 = -102	R12 = -3	R13 = -21	R14 = 42	R15 = -72	
Color Quality Scale: $Q_a= 0.0$, $Q_f= 0.1$, $Q_p= 0.0$, $Q_g= 1.0$							
Q1 = 13	Q2 = 19	Q3 = 0	Q4 = 0	Q5 = 0	Q6 = 1	Q7 = 4	Q8 = 15
Q9 = 0	Q10 = 0	Q11 = 0	Q12 = 0	Q13 = 0	Q14 = 0	Q15 = 0	



Photometric Parameters

Luminous Flux: 485.56 lm Efficiency: 30.97 lm/W Radiant Power: 1.027 W
Total mains efficacy: 30.97 lm/W Energy Efficiency Class: G (EU 2019/2015)

Electric Parameters

Voltage: 119.78V Current: 0.1331A Power: 15.68W
Power Factor: 0.9838 Frequency: 50.00Hz

Test Infomation

Scan Range: 380~800:1nm Photometric Method: sphere-photometer (spec_rev)
Stabilization Time: 0 Min ALC.: 1.0000 Photometric Condition: Sphere diameter: 2.00m, 4T
Max of Signal: 46602 (2182) CCD Integration Time: 241.42 ms

Condition: $T_x:19.9^{\circ}C$, $T_i:19.6^{\circ}C$, R.H.:60%

Test Lab:

Operator: