UrbanLED™

Lighting for Protected Marine Environments

BeaconProducts

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Lighting for Protected Marine Environments

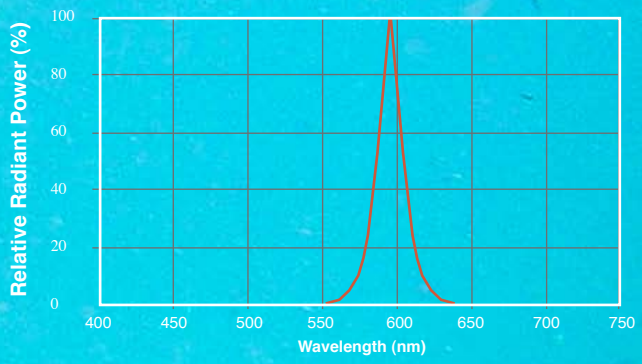
Conventional lighting systems used on coastal development continue to threaten endangered marine wildlife. The **Urban**LED platform utilizing Beacon's amber LED light engine can be safely used for outdoor lighting in protected marine environments.

EFFICIENCY & ENVIRONMENT

As a leader in environmentally friendly, energy-efficient outdoor lighting, Beacon Products is also uniquely located in the heart of Southwest Florida. Over our 30 year history, our world-class lighting products and earth-friendly finishing processes have stood the test of time in some of the harshest marine environments.

The **Urban**LED lighting platform is an extension of our LED technology and environmental conscience. Through the use of Beacon's Amber LED technology, specially designed optics and a versatile full-cutoff luminaire, the **Urban**LED platform is suitable for use in ecologically sensitive areas, sea turtle nesting areas, migratory corridors and Dark Sky friendly communities.

Amber LED Spectral Distribution



Light produced by Amber LEDs is visible to humans and can be safely used for outdoor lighting applications, but it is virtually undetectable to sea turtles and other forms of marine wildlife.

FLEXIBILITY

Creating scalable LED solutions for area lighting has never been easier. The **Urban**LED Series platform includes 4 luminaire styles, 3 sizes and 2 style options. Couple this with our arm and pole offerings and an endless possibility of configurations is achievable.

- AA-41
- CAP21
- MERS

- AA-44
- MRSS26
- MERM

- AA-38
- MAR26
- MERL

• AA-65

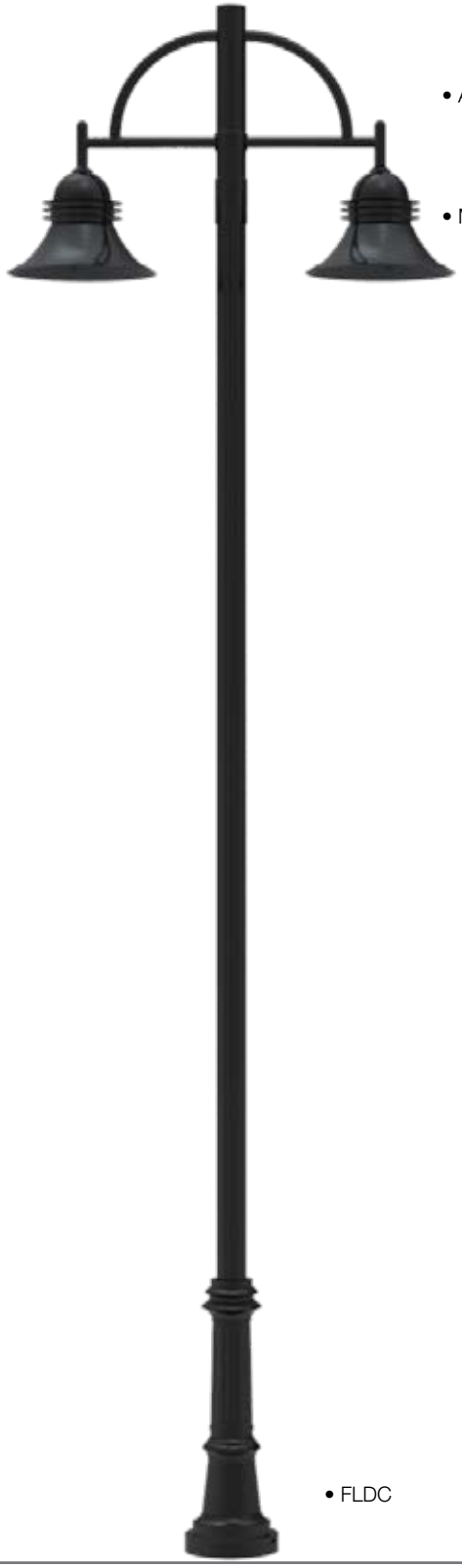
• MRDS26

• FLCC

• AA-37

• CAP30

• DOMU



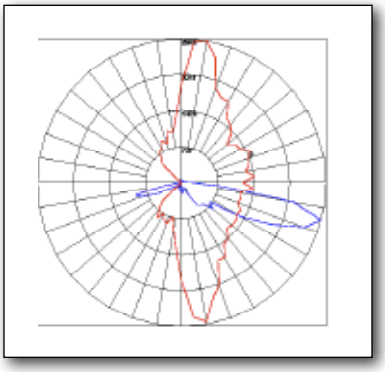
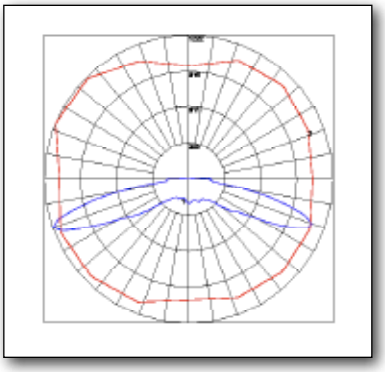
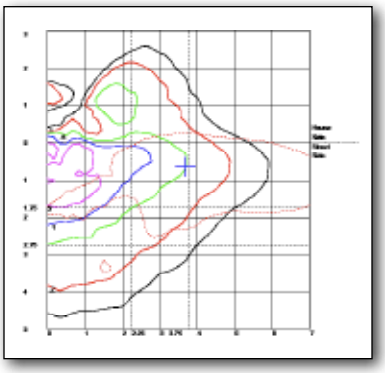
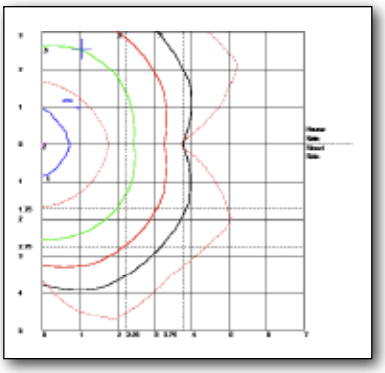
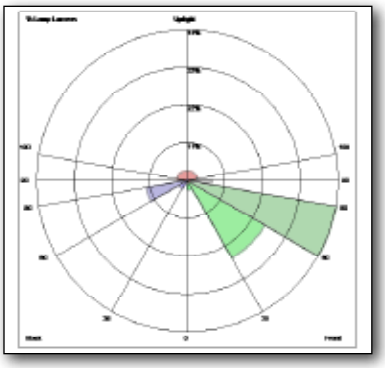
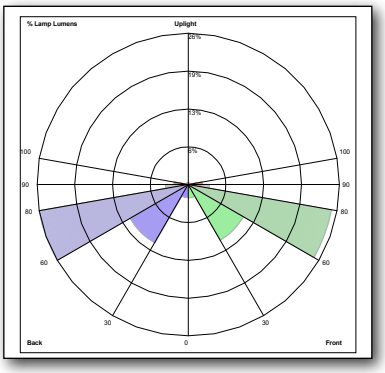
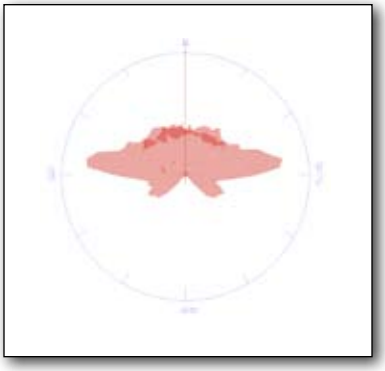
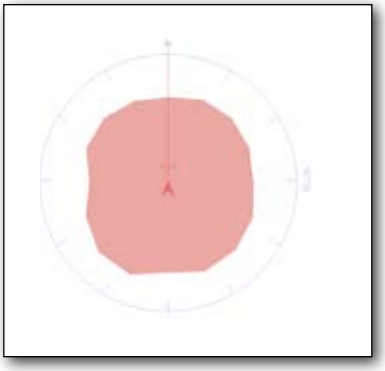
• AA-49

• MAR30

• FLDC

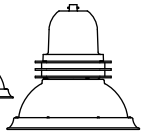
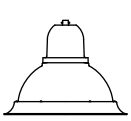
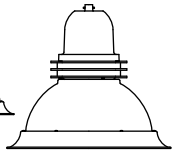
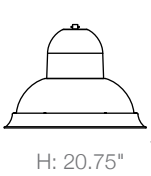
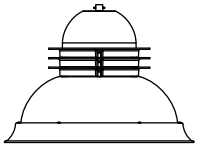
PERFORMANCE

Beacon's Unison™ LightDrive technology allows each LED to accurately create the same light pattern through precision molded acrylic lenses. Since this approach does not involve aiming the individual LEDs, Beacon is able to reproduce a higher level of consistency with a consolidated lamp image, without producing striations and maintaining exceptional optical efficiency. IESNA Type III and V full cutoff distributions are available.

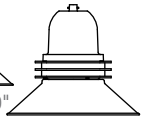
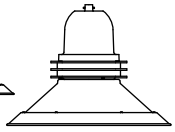
Type III	Type V
	
	
	
	

ORDERING GUIDE

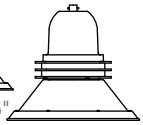
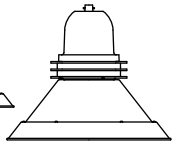
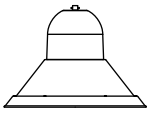
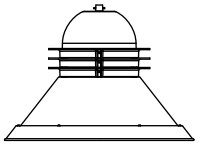
Capitol (CAP)

Width - model	NRNW	3RNW	NRNW	3RNW	NRNW	3RNW
☐ 21” - CAP21	 H: 16"	 H: 18.75" EPA: 1.04 ft² 35 lbs	 H: 19"	 H: 21.75" EPA: 1.39 ft² 40 lbs	 H: 20.75"	 H: 20.75" EPA: 1.73 ft² 65 lbs
☐ 26” - CAP26						
☐ 30” - CAP30						

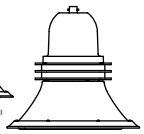
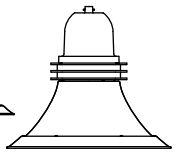
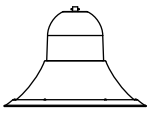
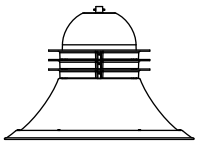
Miramar SS (MRSS)

☐ 21” - MRSS21	 H: 13.50"	 H: 16.25" EPA: 1.03 ft² 35 lbs	 H: 15.25"	 H: 18" EPA: 1.17 ft² 40 lbs		
☐ 26” - MRSS26						

Miramar DS (MRDS)

☐ 21” - MRDS21	 H: 15.25"	 H: 17.25" EPA: 1.00 ft² 35 lbs	 H: 17.5"	 H: 20.25" EPA: 1.25 ft² 40 lbs	 H: 20.25"	 H: 20.25" EPA: 1.59 ft² 65 lbs
☐ 26” - MRDS26						
☐ 30” - MRDS30						

Maritas (MAR)

☐ 21” - MAR21	 H: 15.5"	 H: 18.25" EPA: 1.00 ft² 35 lbs	 H: 18.25"	 H: 21.50" EPA: 1.25 ft² 40 lbs	 H: 20"	 H: 20" EPA: 1.48 ft² 65 lbs
☐ 26” - MAR26						
☐ 30” - MAR30						

ordering logic

source

☐	LED32	(32W, 24-LED, 350mA) - 70K (L70)
☐	LED48	(48W, 36-LED, 350mA) - 60K (L70)
☐	LED60	(60W, 36-LED, 467mA) - 55K (L70)
☐	LED80	(80W, 36-LED, 556mA) - 50K (L70)

color temperature

☐	AM	amber (586-595nm) 51.7lm LED[1]

voltage

☐	UNV	universal voltage sensing driver (120-277)
☐	480	480V with integral 480:277 transformer[1]
☐	12VDC	12V D.C. for solar power assembly[1]

electrical options

☐	PEC	photocell (specify voltage)
☐	LSP	lightning surge protector - 10KA MOV (recommended)

optical options

☐	DIR3	type III
☐	DIR5	type V

shielding options

☐	H90	90° house side shield
☐	H120	120° house side shield
☐	H180	180° house side shield
☐	OTHER	_____

style options

☐	NRNW	no rings, no window
☐	3RNW	three rings, no window

color

☐	BB	black
☐	BZ	bronze
☐	BG	green
☐	BW	white
☐	BY	gray
☐	RAL	RAL _____

specifications

construction

All cast aluminum parts shall be low copper alloy A356. All extruded aluminum parts shall be alloy 6061-T6.

electrical assembly

The electronic driver(s) shall be mounted with nonferrous fasteners. The driver(s) shall have a high-temperature, flame-resistant (UL 94V-0 minimum) enclosure. The input voltage range shall be 120-277 VAC, 47 to 63 Hz with a 90% power factor at full load. An integral step-down transformer shall be provided when a 347V or 480V input voltage is required. Load regulation shall be +/- 3%. The driver shall have output over voltage and over current protection and output short circuit protection with auto recovery. Operating temperature shall be -30°C to 60°C. The driver shall be designed to operate for 100K hours (MTBF) and the LED source shall be rated for a minimum of 50K hours (70% lumen maintenance @ 25°C ambient temperature). The Amber LED source shall be downward facing and mounted to an aluminum heat sink within the luminaire shade. Dual drivers may be utilized for bi-level switching.

The luminaire shall be NRTL listed and suitable for wet locations.

fasteners

All fasteners shall be stainless steel.

warranty

5-year limited warranty

construction

Finish shall be Beacote V AAMA 2604 polyester powdercoat electrostatically applied and thermocured. Luminaires shall be subjected to chrome-free chemical pre-treatment prior to painting by full immersion process.

footnotes:

1. consult factory

ordering example: CAP21 / LED48 / AM / UNV / LSP / DIR3 / 3RNW / BB

For more information about lighting products designed for protected marine environments,
please visit **www.beaconproducts.com/wildlife**

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