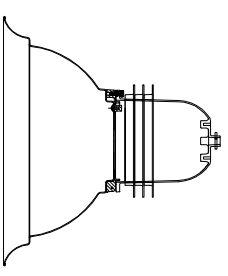


Project Information		Approvals	
Name / Location:	/ /		
Type / Quantity:	/ /		
Sold to:			
PO#:			

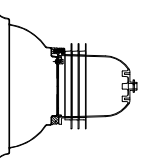
Luminaire Details

Shade Options

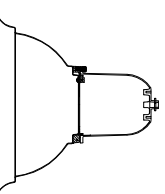
Style Options



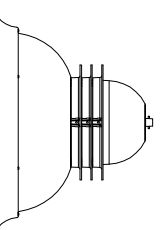
Capitol (CAP)



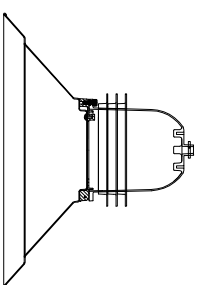
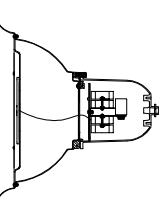
21' CAP  
3RNW  
H: 18.75'



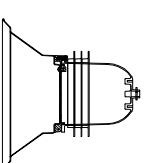
26' CAP  
NRNW  
H: 21.75'



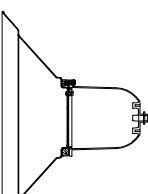
30' CAP  
3RNW  
H: 20.75'



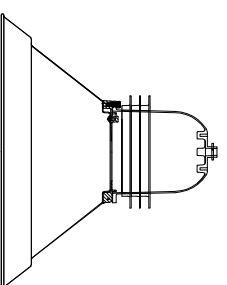
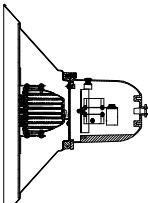
Miramar SS (MRSS)



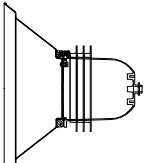
21' MRSS  
3RNW  
H: 16.25'



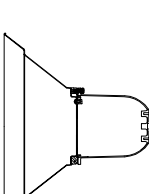
26' MRSS  
NRNW  
H: 18.0'



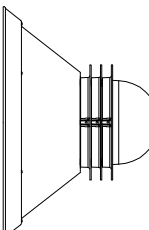
Miramar DS (MRDS)



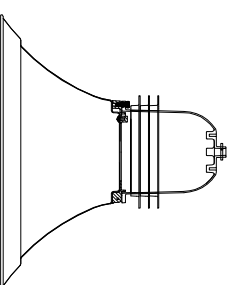
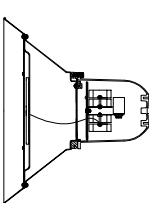
21' MRDS  
3RNW  
H: 17.25'



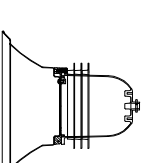
26' MRDS  
NRNW  
H: 20.25'



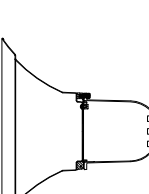
30' MRDS  
3RNW  
H: 20.25'



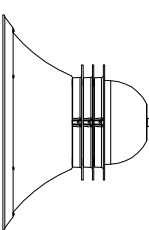
Maritas (MAR)



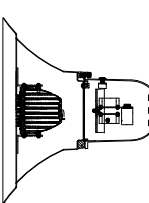
21' MAR  
3RNW  
H: 18.25'



26' MAR  
NRNW  
H: 21.50'



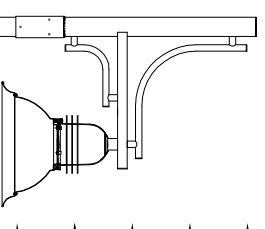
30' MAR  
3RNW  
H: 20.0'



Project Information		Approvals	
Name / Location:	/ /		
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PO#:			

Perspective

Specifications



- 1' - 14"
- 2' - 13"
- 3' - 12"
- 4' - 11"
- 5' - 10"
- 6' - 9"
- 7' - 8"
- 8' - 7"
- 9' - 6"
- 10' - 5"
- 11' - 4"
- 12' - 3"
- 13' - 2"
- 14' - 1"

**CONSTRUCTION:** All cast aluminum parts shall be low copper alloy A356. All extruded aluminum parts shall be alloy 6061-T5, 6063-T5 or equal. The fixture ballast housing shall be a one piece casting. The decorative ring elements shall be mechanically fastened to the housing. The fixture shall be sealed for weather-tight operation. Lamp access shall be tool-less.

**HOUSING & LED THERMAL MANAGEMENT:** All cast aluminum parts for the Beacon Urban series driver housing luminaire shall be ASTM 356 marine grade alloy. The drivers shall be located in the top cast housing and shall be accessible without tools by rifting the lower shade assembly. The driver and all electrical components shall be on a tray. The lower shade shall be made from a one-piece aluminum spinning. The LED bezel assembly shall be attached to a one piece aluminum heat sink to provide direct-heat exchange between the LED light engine and the cool outdoor air. The Housing is designed for LED thermal management without the use of metallic screens, cages, or fans. The top cast shall be able to be pendant mounted in place with a stainless steel safety pin and then permanently held in place with four stainless steel bolts.

**Bezel Optical System:** Each Beacon luminaire is supplied with an Optical one piece cartridge system consisting of an LED engine, LED lens, optics, gasket and die cast aluminum bezel. The cartridge is held together with internal brass standoffs soldered to the board so that it can be field replaced as a one piece Optical system. A one-piece die cast silicone gasket ensures a weather-proof seal around each individual LED and allows the luminaire to be rated for high-pressure hose down (PHSD) applications. The optical cartridge is secured to the aluminum heat sink with fasteners to insure thermal conductivity. The optics are held in place without the use of adhesives and the complete assembly is gasketed for high pressure hose down cleaning. The cartridge assembly is available in various lighting distributions using TRS designed Acrylic optical lenses over each LED.

**Printed Circuit Board (PCB):** Aluminum thermal clad board with 0.062" thick aluminum base layer "high temperature" HT-0450 dielectric (0.003" thick, thermal conductivity of 2.2 W/MK, UL RTI of 140 C) 0.0014" thick copper circuit layer. Circuit layer designed with copper pours to minimize thermal impedance across dielectric. Board shall be supplied with QFN-3 flip-chip ballast reinforced thermal pad 0.005" thick thermal conductivity of 2.0 W/MK. Continuous use temperature of 180 C UL94 V-0. Board will be mounted to the heat sink using 12#4-40 screws to insure contact with thermal pad and heat sink. Use of thermal grease will not be allowed.

**THERMAL REGULATION CIRCUIT:** Thermal circuit shall protect the luminaire from excessive temperature by interfacing with its 0-10V dimmable drivers to reduce drive current as necessary. The factory-preset temperature limits shall be designed to ensure maximum hours of operation to assure L70 rated lumen maintenance. The device shall activate at a specific, factory-preset temperature, and progressively reduce power over a finite temperature range in recognition of the effect of reduced current on the internal temperature and longevity of the LEDs and other components. A luminaire equipped with the device may be reliably operated in any ambient temperature up to 55°C (131 °F). The thermal circuit will allow higher maximum wattages than would be permissible on an unregulated luminaire (if some variation in light output is permissible), without risk of premature LED failure. Operation shall be smooth and undetectable to the eye. Thermal circuit shall directly measure the temperature at the LED solder point.

Thermal circuit shall consist of surface mounted components mounted on the LED engine (printed circuit board). For maximum simplicity and reliability, the device shall have no dedicated enclosure, circuit board, wiring harness, gaskets, or hardware. Device shall have no moving parts, and shall operate entirely at low voltage (NEC Class 2). The device shall be located in an area of the luminaire that is protected from the elements. Device shall revert to full power in the event of an interruption of its power supply, or faulty wiring connection to the drivers. Thermal circuit shall be designed to "fall out", allowing the luminaire to be used in the event of a power supply, or faulty wiring connection to the drivers. Device shall be able to co-exist with other 0-10V control devices (occupancy sensors, external dimmers, etc.). The device will effectively control the solder point temperature as needed; otherwise it will allow the other control devices to function unimpeded.

**Electrical:** Luminaires are equipped with an LED driver that accepts 100V through 277V, 50 Hz to 60 Hz (UNLV), or a driver that accepts 347V or 480V input. Power factor is .92 at full load. All electrical components are rated at 50,000 hours at full load and 0-6°C ambient conditions per MIL-2177 Notice 2. Optional 0 to 10 Vdc dimming drivers are available upon request. All other components supplied use at 600 VAC, 15A or higher.

**Surge Protection:** The onboard surge protector shall be a UL recognized component for the United States and Canada and have a surge current rating of 10,000 Amps using the industry standard 8/20 µsec waves. The LSP shall have a damping voltage of 320V and surge rating of 372J. The case shall be a high-temperature, flame resistant plastic enclosure.

**Agency Certification:** The luminaire shall bear a CSA label and be marked suitable for wet locations.

**Warranty:** Beacon luminaires feature a 5 year limited warranty. Beacon LED luminaires with LED arrays feature a 5 year limited warranty covering the LED arrays. LED drivers are covered by a 5 year limited warranty. PIR sensors carry a 5 year limited warranty from the sensor manufacturer. See Warranty Information on [www.beaconproducts.com](http://www.beaconproducts.com) <<http://www.beaconproducts.com>> complete details and exclusions.

**Fasteners:** All fasteners shall be stainless steel. When tamper resistant fasteners are required, spanner HD (snake eye) style shall be provided (special tool required, consult factory).

CAP21 luminaire shown with 4" pole w/ MERL "Large Meridian" cover & Nautis arm

Ordering Example: CAP / 21 / 24G-60 / T3 / UNV / PEC / 3RNW / PM / BB

<b>Model</b>	<b>LED Engine</b>	<b>Voltage</b>	<b>style options</b>	<b>Finish</b>
CAP Capitol	24G-30 30W LED array	UNV 120-277V	NRNW no rings, no window	BB black
MAR Maritas	24G-60 60W LED array	347 347V	3RNW three rings, no window	BZ bronze
MRSS Miramar Shallow Shade	36G-90 90W LED array	480 480V		BG green
MRDS Miramar Deep Shade	60G-150 150W LED array	12V 12VDC		W/H white
				BY grey
				RAL
				OTHER

Consult factory for premium and vendor finishes. Custom colors available.

<b>size</b>	<b>Optics</b>	<b>Electrical Options</b>	<b>mounting options</b>
URB21 21" dia. shade	T2 direct type II	PEC photocell	PM pendant mount
URB26 26" dia. shade	T4 direct type III	FS fuse holder	YM yoke mount
URB30 30" dia. shade	T5R direct type IV	QRS quartz resistke	
	TSS type V, rectangular	EB electronic ballast	
	TSS type V, square	IO IO-OnBoard	
	T5W type V, wide round		

Notes:  
1. Consult Factory