rev (11/09/2011)JA

TRE31 (LED)

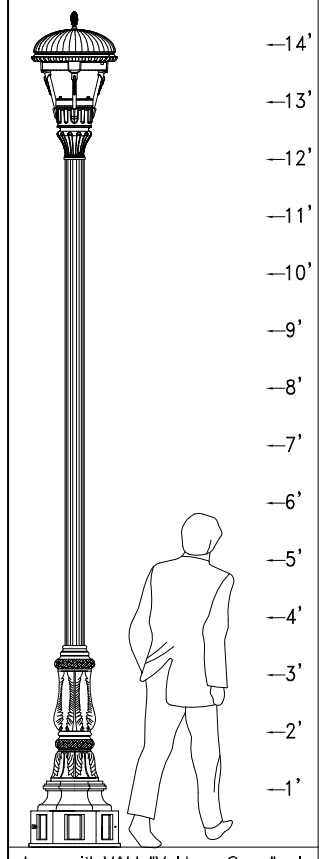
Treviso Luminaire

Weight: 50.0 lbs | **EPA:** 1.2 ft²

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

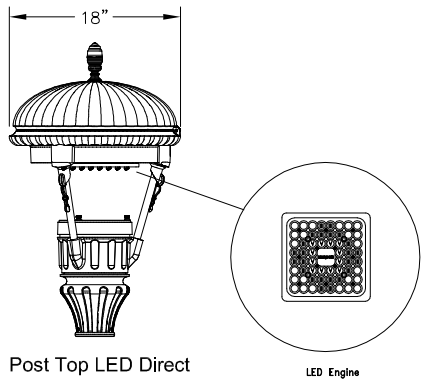
Approvals

Perspective

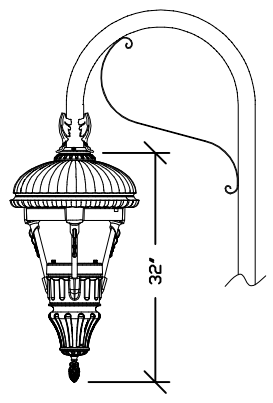


shown with VALL "Valdarno Cover" pole

Luminaire details

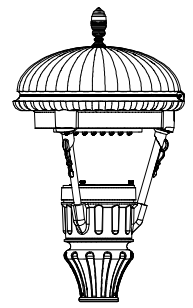


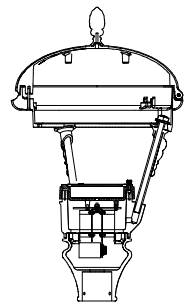
Post Top LED Direct



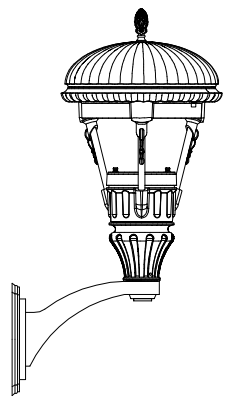
Pendant Mounted

Options





Post Top LED direct



Wall Mounted on Geneva Arm

Ordering Example:

TRE31 / LED36G-48-UNV / IND3 / PEC / PM / BB

TRE31 ___ / _____ - _____ / _____ / _____ / ____ / _____

LED engine-Watts	
36G-90	90w LED array
OTHER	

Voltage	
UNV	120-277V
347V	
480V	

Optics	
DIR2	type II, direct
DIR3	type III, direct
DIR4	type IV, direct
DIR5	type V, direct

Mounting Options	
PM	pendant mount
PT	post top
WM	wall mount

Finish	
BB	black
BZ	bronze
BG	green
BW	white
BY	gray
RAL	RAL-
OTHER	

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

Electrical Options	
PEC	photocell
1PF	single power feed
2PF	dual power feed
DD	0-10V dimming drivers

Notes:
1: Consult Factory
2: 208/240V fuse holder in pole
3: Only available as a style option when used with a direct reflector
4: 120v-277v only

2041 58th Avenue Circle East | Bradenton, FL 34203 | PH: 941.755.6694 | FX: 941.751.5535 | www.beaconproducts.com

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Specifications

CONSTRUCTION:
All cast aluminum parts shall be low copper alloy A356. All extruded aluminum parts shall be alloy 6061-T6, 6063-T5 or equal.
The upper chamber / lid shall be topped by a decorative cast aluminum finial / cap and mechanically fastened to the optical chamber.
The cast 8-sided cage shall accommodate UV stabilized acrylic or polycarbonate lenses (side panels) which shall be sealed for weather tight operation.
The electrical chamber / fitter shall be an alunminum, decorative fitter designed to accommodate the ballast assembly and shall mount to 3"OD x 3"H tenon and secured by three stainless steel set screws.

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 hinging 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 pendent mounted in place with a stainless steel safety pin and then permanently held in place with four stainless steel bolts.

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 55ºC (131 ºF).

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.

Thermal circuit shall be designed to "fail on", allowing the luminaire to revert to full power in the event of an interruption of its 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 device(s) to function unimpeded.

Electrical:
Luminaires are equipped with an LED driver that accepts 100V through 277V, 50 Hz to 60 Hz (UNIV), 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 40-C ambient conditions per MIL-217F Notice 2. Optional 0 to 10 volt dimming drivers are available upon request. All driver components supplied are Component-to -component wiring within the luminaire will carry no more than 80 % of rated current and is listed by UL for use at 600VAC at 50°C or higher. Plug disconnects are listed by UL for use at 600 VAC, 15A or higher.
Surge Protector:
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 pSec wave. The LSP shall have a clamping 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> 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).

Finish:
Finish shall be Beacote III polyester powdercoat electrostatically applied and thermocured. Luminaires shall be subjected to iron phosphate chemical pre-treatment prior to painting by immersion process.

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