



B30 LED High Performance Bollard

revision: 01/01/17 • M.330led_spec.pdf

Approvals:

Specifications
B30 LED
Maximum weight: 30 lb.

Top Cap: One-piece heavy gauge spun aluminum retained by two countersunk captive socket head fasteners, beaded at outer edges by optical assembly. 1/2" thick insulation provided above lamp.

Plastic Enclosure: High grade, high temperature acrylic, optically clear, 1/2" nominal wall, one-piece injection molded retained in an unstressed position by internal support through reflector assembly.

Optical Assembly: Precision hydroformed optical lenses with specular Alzak® finish, removable as a one-piece self-contained unit.

Shank: One-piece, extruded, wall thickness .125" with heavy cast aluminum base back anchor base concealed within post. Post locks to base with (2) 1/8" stainless steel cone point set screws.

Gasketing: Fixture is silicone gasketed for weatheright operation.

Electronic Module: All electrical components are either UL or ETL recognized, mounted on a single plate and factory pre-wired with quick disconnect plugs. Driver is rated for 40°F starting and has a 0-10V dimming interface for multi-level illumination options.

Optical Module: Each LED equipped with a directional optic for maximum beam angle projecting through louvre stack spacings. LED boards to be mounted to an anodized interior locking heat sink extension. 30 LED total. Available in 5800m Amber, 3000K, 4200K and 5100K color temperatures.

Anchor Bolts: Four 3/8" x 10" + 2" zinc electro-plated L-hook anchor bolts, each with two nuts and washers and a rigid precasted template.

Finish: Each luminaire receives a fade and abrasion resistant electrostatically applied, thermally cured, tripartite isocyanurate (TIC) polyester powdercoat finish. Standard colors include (BL) Black, (BR) Dark Bronze, (WH) White, (PS) Platinum Silver, (SC) Seabird Gray, (LC) Light Gray, and (CC) Custom Color (include RAL#).

Listed to: UL 1598 Standard for Luminaires - UL 8750 Standard for Safety for Light Emitting Diode (LED) Equipment for use in Lighting Products and CSA C22.2-250.0 Luminaires. RoHS compliant. Meets Buy American provisions within ARIA.

Warranty: Kim Lighting warrants Bollard LED products sold by Kim Lighting to be free from defects in material and workmanship for (i) a period of five (5) years for metal parts, (ii) a period of five (5) years for exterior housing paint finishes, (iii) a period of five (5) years for LED Light Engines and, (iv) a period of five (5) years for LED power components (driver, surge protector and LED's) devices, from the date of sale of such goods to the buyer as specified in Kim Lighting shipment documents for each product.

CAUTION: Fixtures must be grounded in accordance with national, state and/or local electrical codes. Failure to do so may result in serious personal injury.

Example: WS-W2504-GH

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RUBIX - model: WS-W2504, WS-W2505 WAC LIGHTING Responsible Lighting®

LED Wall Mount

Fixture Type:

Catalog Number:

Project:

Location:

PRODUCT DESCRIPTION
Available in single- and twin-light configurations, this die cast aluminum LED wall luminaire is well suited for a broad range of exterior lighting applications. Designed with a square profile, this version of Rubix mounts upwards or downwards.

FEATURES

- Energy Star® rated
- CEC Title 24 Compliant
- Mounts up or down
- IP65 Rated, ETL & cETL Wet Location Listed
- Die-Cast Aluminum Construction
- Universal Voltage Input (120V - 277V)
- Dimming: ELV (120V) or 0-10V

Specifications
Construction: Aluminum with etched glass.
Power: Integral driver in luminaire. 120V - 277V Input.
Light Source: High output LED
Mounting: Mounts directly to junction box
Dimming: 0-10V Dimming: 100% to 10%
LED Dimming: 100% to 10% (120V only)
Finish: Brushed Aluminum (AL), Black (BK), Bronze (BZ), Graphite (GH), White (WT)
Color Temp: 3000K
CRI: 90
Rated Life: 70,000 hours
Standards: Energy Star® rated, IP65 Rated ETL & cETL Wet Location Listed, CEC Title 24 Compliant, Dark Sky Friendly.

Example: WS-W2504-GH

waclighting.com
Phone: (800) 526-5588
Fax: (800) 526-2585

Headquarters/Eastern Distribution Center
44 Harbor Park Drive
Port Washington, NY 11050

Central Distribution Center
1600 Distribution Ct.
Libia Springs, GA 30122

Western Distribution Center
1750 Archdale Avenue
Ontario, CA 91760

WAC Lighting retains the right to modify the design of our products at any time as part of the company's continuous improvement program. OCT 2016

Cimarron CL1 Area/Site Lighting

Style: Vertically flared die-cast solid top housing and lower heat sink optimize heat dissipation.

- Isolated electrical compartment with integral heat sinking for cooler operation and longer drive life.
- Drivers have greater than 90% power factor and less than 20% THD.
- 0-10V dimming driver standard, other CD option to have dimming leads extended.
- Automatic thermal self protection.
- 20kA surge protection with an end of life LED indicator.
- 60,000 hours life (L90 @ 40°C)*.
- Shipped with upswipe or straight arm for uniform look and ease of installation.
- 40 deg C to 40 deg C ambient operation.
- Listed to TIC; polyester powder coat finish.

- 3000K, 5000K, 4000K, 7000K, 5000K, 6000K
- Standard steel bezel
- Choice of 72 high brightness LED configuration with individual logic series aimed to produce ID type II, III, IV and V distribution and auto 0-10V.
- Backlight control option reduces spill light behind pole by 85%, doesn't change fixture appearance or ESR.
- IP65
- Listed to UL1598 and CSA C22.2:250.0-24 for wet locations.
- Increased lifespan expect with use of 1500mA driver (95% eff).
- Designlight Consortium (DLC) qualified, consult DLC website for more details: <http://www.designlights.org/DLC>
- Turtle Friendly Amber available.

ORDER INFORMATION

SERIES	NO. OF LEDS	VOLTAGE	LED	DRIVE CURRENT	OPTION
CL1 Common LED	72	120V	3000K, 5000K, 4000K, 7000K, 5000K, 6000K	300mA (standard)	IC Backlight control CD Constant dimming WB Wall bracket RPA8 8" Round pole adapter RPA6 6" Round pole adapter RPA5 5" Round pole adapter RPA4 4" Round pole adapter RPA3 3" Round pole adapter RPA2 2" Round pole adapter RPA1 1" Round pole adapter RPA0 No pole adapter

ADDITIONAL ACCESSORIES ON PG. 226-227

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Visit www.hubbelloutdoor.com/products for up-to-date availability information.

Model: WL-LED200 WAC LIGHTING Responsible Lighting®

LEDme® Step Light

Fixture Type:

Catalog Number:

Project:

Location:

PRODUCT DESCRIPTION
Vertical rectangle LEDme® Step Light. Designed for safety and style on stairways, patios, decks, balcony areas, walkways and building perimeters. Features an architectural design. Energy efficient for long lasting indoor and outdoor lighting solutions. Creates an attractive, romantic impression at night.

FEATURES

- 316 marine grade cast stainless steel (SS) available
- Direct wiring, no driver needed
- Low profile, flush to wall aesthetics with no visible hardware
- 60,000 hour rated life
- Balanced lighting, free of shadows with minimum glare
- Up to 200 fixtures can be connected in parallel
- Replaceable LED module
- 5-year WAC Lighting product warranty

Specifications
Construction: Die-cast aluminum or 316 marine grade cast stainless steel
Power: Direct wiring, no remote driver needed. Input voltage: 120V or 277V AC 50/60Hz
Light Source: 3000K CCT Samsung Hi-AC High Power LED, CR-BS Optional color lenses. Total power consumption of 30W
Mounting: Fits into 2" x 4" x 4" box with minimum inside dimensions of 3 1/2" x 2 7/8" x 2 1/4" includes bracket for 3-Box mount.
Dimming: Dim to 10% with electronic low voltage (ELV) dimmer. Approved dimmers: Lutron Nova+ NTELV-300 & NTELV-600, Lutron Vera+ VTELV-600, Lutron Diva DTELV-300P, Lutron Sky Hook SELV-300P, Lutron Maestro MRELV-600P
Standards: IP65, UL & cUL Listed for wet locations

FINISHES

SS	BK	WT	BN	BZ

Example: WL-LED200F-AM-BZ

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LIGHT FIXTURE TABLE

LABEL	LIGHT FIXTURE	MANUFACTURER	MANUFACTURERS ID	NUMBER OF LIGHTS	MOUNTING HEIGHT	MOUNTING LOCATION
A	B30 LED HIGH PERFORMANCE BOLLARD	KIM LIGHTING	B30-20L-3K-UV	6	3.5'	BOLLARD
B	RUBIX LED WALL MOUNT	WAC LIGHTING	WS-W2504	4	9'	WALL
C	RUBIX LED CEILING MOUNT	WAC LIGHTING	FM-W2505	1	8'	CANOPY CEILING
D	LEDme STEP LIGHT	WAC LIGHTING	WL-LED200-C-WT	12	1.5'	WALL AT SIDEWALK
E	CIMARRON CL1 LED	HUBBELL OUTDOOR LIGHTING	CL1-A-60L-3K-4	1	25'	POLE

NOTES:
1. LIGHTING PLAN PREPARED USING DESIGN MASTER PHOTOMETRICS SOFTWARE
2. ONLY PROPOSED LIGHTING FIXTURES ARE MODELED
3. DEPRECIATION FACTOR FOR LED IS 0.90

STATE OF MAINE
MICHAEL E. TADEMA-WELANDT
LICENSED PROFESSIONAL ENGINEER

P.E. MICHAEL E. TADEMA-WELANDT
DATE: 2/22/2018

PROJECT: ONEJOY PLACE
1 JOY PLACE, PORTLAND, MAINE 04102

REVISIONS

NO.	DATE	REVISIONS
1	4-25-2017	SUBMITTED TO CITY OF PORTLAND FOR REVIEW
2	8-7-2017	REVISED PER STAFF & PEER REVIEW COMMENTS
3	8-29-2017	REVISED PER STAFF & PEER REVIEW COMMENTS
4	9-13-2017	REVISED PER STAFF COMMENTS
5	1-11-2018	ISSUED FOR BID
6	2-22-2018	REVISED LIGHT POLE LOCATION

565 CONGRESS STREET
SUITE 310
PORTLAND, ME 04102

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TERRADYN CONSULTANTS, LLC
Civil Engineering - Land Planning - Stormwater Design - Environmental Permitting

PREPARED FOR
ONEJOY PLACE
PHOTOMETRIC LIGHTING PLAN

DATE: 3/7/2017
SCALE: 1" = 10'
DESIGNED: MTW
JOB NO: 1704
FILE: 1704-PHOTOMETRICS
SHEET **P-1.0**