



### 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, located 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.

**Shalt:** One-piece, extruded, wall thickness, 1.25" with heavy cast aluminum base back anchor base concealed within post. Post locks to base with (2) 1/2" 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 provided 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 inter-cooling 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 Ballard 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 lightbulb) devices, from the date of sale of such goods to the buyer as specified in Kim Lighting agreements 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.

**© 2017 KIM LIGHTING • 17760 ROWLAND STREET, CITY OF INDUSTRY, CA 91748 • TEL: 656.666.6666 • FAX: 656.666.6666**

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

LED Wall Mount

**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% - 10%  
LED Dimming: 100% - 15% (20V 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 & cUL Wet Location Listed, CEC Title 24 Compliant, Dark Sky Friendly.

**PRODUCT DESCRIPTION**  
Available in single- and twin-light configurations, this die cast aluminum LED wall luminaire is wet location listed 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 & cUL Wet Location Listed  
• Die-Cast Aluminum Construction  
• Universal Voltage Input (120V - 277V)  
• Dimming: ELM (120V) or 0-10V

**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

Hubbell Outdoor Lighting

**Specifications**  
3000K, 5000K, 4000K, 7000K, 5000K, 6000K, 6500K  
• Choice of 72 high brightness LED configurations with individual beam angles aimed to produce ID Type II, III, IV and V distributions and auto 0/90°  
• 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 lumen output with size of 1500lm driver (95% eff.)  
• Designlight Consortium (DLC) qualified, consult DLC website for more details: <http://www.designlights.org/DLC>  
• Turtle Friendly Amber available

**ORDER INFORMATION**

SEVERE	NO. OF LEDS	VOLTAGE	LED	DRIVE CURRENT	OPTION
CL1 Common LED	72	120V	3000K, 4000K, 5000K, 6000K, 6500K	300mA (standard)	IC Backlight control CD Constant dimming WB Wall bracket RP65 5" Round pole adapter RP66 6" Round pole adapter RP67 7" Round pole adapter RP68 8" Round pole adapter RP69 9" Round pole adapter RP70 10" Round pole adapter RP71 11" Round pole adapter RP72 12" Round pole adapter RP73 13" Round pole adapter RP74 14" Round pole adapter RP75 15" Round pole adapter RP76 16" Round pole adapter RP77 17" Round pole adapter RP78 18" Round pole adapter RP79 19" Round pole adapter RP80 20" Round pole adapter RP81 21" Round pole adapter RP82 22" Round pole adapter RP83 23" Round pole adapter RP84 24" Round pole adapter RP85 25" Round pole adapter RP86 26" Round pole adapter RP87 27" Round pole adapter RP88 28" Round pole adapter RP89 29" Round pole adapter RP90 30" Round pole adapter RP91 31" Round pole adapter RP92 32" Round pole adapter RP93 33" Round pole adapter RP94 34" Round pole adapter RP95 35" Round pole adapter RP96 36" Round pole adapter RP97 37" Round pole adapter RP98 38" Round pole adapter RP99 39" Round pole adapter RP100 40" Round pole adapter

**ADDITIONAL ACCESSORIES ON PG. 226-227**

**© 2017 HUBBELL OUTDOOR LIGHTING**

### Model: WL-LED200 WAC LIGHTING Responsible Lighting®

LEDme® Step Light

**Specifications**  
Construction: Die-cast aluminum or 316 marine grade cast stainless steel  
Power: Direct wiring, no driver needed. Input voltage: 120V or 277V AC 50/60Hz  
Light Source: 3000K CCT Samsung Hi-AC High Power LED, CRI: 85  
Optional color lenses. Total power consumption of 30W  
Mounting: Fits into 2" x 4" x 4" box with minimum inside dimensions of 3/4" x 2 1/8" x 2 1/8" includes bracket for 3-Box mount.  
Dimming: Dim to 10% with electronic low voltage (ELV) dimmer. Approved dimmers: Lutron Nova-T NTELV-300 & NTELV-600, Lutron Vera-TLV-600, Lutron Diva DTELV-300P, Lutron Sky-SEL-300P, Lutron Maestro MRELV-600P  
Standards: IP65, UL & cUL Listed for wet locations

**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

**ORDER NUMBER**

Model #	Color	Finish
WL-LED200	White	3000K
WL-LED200F	Red	6000K
WL-LED200F	Blue	4200K

**Example: WL-LED200F-AM-BZ**

**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. MAR 2016**

### 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:**
- LIGHTING PLAN PREPARED USING DESIGN MASTER PHOTOMETRICS SOFTWARE
  - ONLY PROPOSED LIGHTING FIXTURES ARE MODELED
  - DEPRECIATION FACTOR FOR LED IS 0.90

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

**P.E. MICHAEL E. TADEMA-WELANDT**  
DATE: 1-11-2018

NO.	DATE	REVISIONS
1	1-11-2018	ISSUED FOR BID
2	8-29-2017	REVISED PER STAFF COMMENTS
3	8-29-2017	REVISED PER STAFF & PEER REVIEW COMMENTS
4	8-29-2017	REVISED PER STAFF & PEER REVIEW COMMENTS
5	1-11-2018	REVISED PER STAFF COMMENTS

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

**OFFICE:** (207) 928-5111 FAX: (207) 221-1317  
www.terradynconsultants.com

**PHOTOMETRIC LIGHTING PLAN**

**ONEJOY PLACE**  
1 JOY PLACE, PORTLAND, MAINE 04102

**ONEJOY PLACE, LLC**  
C/O RENEWAL HOUSING ASSOCIATES, LLC  
2 UNION STREET, 5TH FLOOR  
PORTLAND, MAINE 04101

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