



B30 LED High Performance Bollard

revision: 4/10/17 • M. B. J. E. D. spec.pdf

Approvals:

Type: Electrical Medium / Top Cap and End Finish / Options / System / See page 3

Catalog number:

Date: Page: 1 of 4

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. 3/8" 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 louvers with specular Alzak® finish, removable as a one-piece self-contained unit.

Shaft: One-piece, extruded, wall thickness: .125" with heavy cast aluminum twist lock anchor base concealed within post. Post locks to base with (2) 3/16" 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 interlocking 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 electrochromically applied, thermally cured, tripartite isocyanurate (TIC) polyester powdercoat finish. Standard colors include (BL) Black, (BR) Dark Bronze, (WH) White, (PS) Platinum Silver, (SG) Seashell Gray, (LG) Light Gray, and (CC) Custom Color (include RAL#).

Listed for: 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 Lichol® device), from the date of sale of such goods to the buyer as specified in Kim Lighting standard warranty 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.

KIM LIGHTING RESERVES THE RIGHT TO CHANGE SPECIFICATIONS WITHOUT NOTICE

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RUBIX - model: WS-W2504, WS-W2505 WAC LIGHTING

LED Wall Mount Responsible Lighting®

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% - 10%
LED Dimming: 100% (0% - 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.
Lithia Springs, GA 30122

Western Distribution Center
1750 Archibald 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

Specifications:

- 3000K, 5000K, 4000K, 7000K, 5000K, 6700K
- Stainless steel bezel
- Choice of 72 high brightness LED configurations with individual beam angles aimed to produce ID Type II, III, IIII 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 lifespan equal with size of 1500mA driver (95% efficiency)
- Designlight Consortium (DLC) qualified, consult DLC website for more details: <http://www.designlights.org/DLC>
- Turtle Friendly Amber available

ORDERING INFORMATION

CL1 - [] - [] - [] - [] - [] - [] - [] - []

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 feet can be connected in parallel
- Replaceable LED module
- 5-year WAC Lighting product warranty

PRODUCT DESCRIPTION

Vertical rectangle LEDme® Step Light. Designed for safety and style on stairways, patios, decks, balconies, 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.

FINISHES: SS, BK, WT, BN, BZ

Example: WL-LED200F-AM-BZ

waclighting.com
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Model: WL-LED200 LEDme® Step Light WAC LIGHTING

Responsible Lighting®

Fixture Type:

Catalog Number:

Project:

Location:

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ORDER NUMBER

Model #	Color	Finish
WL-LED200	120V	AM Amber 3000K
WL-LED200F	277V	RD Red 6000m
		BL Black
		BR Blue 6500m
		BN White
		BZ Brushed Nickel
		BZ Bronze

*Brushed Nickel Finish for interior use only

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	WATTS	COLOR
A	B30 LED HIGH PERFORMANCE BOLLARD	KIM LIGHTING	B30-20L-3K-UV-DB	5	3.5'	BOLLARD	24	DARK BRONZE
B	RUBIX LED WALL MOUNT	WAC LIGHTING	WS-W2504-BZ	4	8'	WALL	16	BRONZE
C	RUBIX LED CEILING MOUNT	WAC LIGHTING	FM-W2505-BZ	1	9'	CANOPY CEILING	16	BRONZE
D	LEDme STEP LIGHT	WAC LIGHTING	WL-LED200-C-BZ	12	1.5'	WALL AT SIDEWALK	4	BRONZE
E	CIMARRON CL1 LED	HUBBELL OUTDOOR LIGHTING	CL1-A-60L-3K-4-DB	1	25'	POLE	135	DARK BRONZE

NOTES:

- LIGHTING PLAN PREPARED USING DESIGN MASTER PHOTOMETRICS SOFTWARE
- ONLY PROPOSED LIGHTING FIXTURES ARE MODELED
- DEPRECIATION FACTOR FOR LED IS 0.50
- LIGHT POLE FOR FIXTURE E TO BE SQUARE STRAIGHT ALUMINUM (SSA-5) POLE BY HUBBELL OUTDOOR LIGHTING, SSA-S-25-60-B-1-S2-DB DARK BRONZE COLOR OR APPROVED EQUAL

STATE OF MAINE
MICHAEL E. TADEMA-WELANDT
LICENSED PROFESSIONAL ENGINEER
No. 1547

P.E. MICHAEL E. TADEMA-WELANDT
DATE: 3/20/2018

NO.	DATE	REVISIONS
1	3-20-2018	REVISED PER CITY OF PORTLAND STAFF COMMENTS
2	2-22-2018	REVISED LIGHT POLE LOCATION
3	1-11-2018	ISSUED FOR BID
4	9-13-2017	REVISED PER STAFF COMMENTS
5	8-29-2017	REVISED SIDEWALK ON ABUTTING CITY PARCEL
6	8-7-2017	REVISED PER STAFF & PEER REVIEW COMMENTS
7	4-25-2017	SUBMITTED TO CITY OF PORTLAND FOR REVIEW

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

PREPARED FOR
ONEJOY PLACE
1 JOY PLACE, PORTLAND, MAINE 04102

PHOTOMETRIC LIGHTING PLAN

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

SHEET **P-1.0**