



CB9S – Contemporary Concrete Bollard – 9" Square

TYPE

- Available in 3000K, 4000K and 5000K CCT
- Body and cap are comprised of precast concrete reinforced with an internal cage structure of steel
- Grills are cast aluminum with stainless steel hardware
- Inner lens is sealed to the grill frame
- Integral prewired ballast module
- Electrical module is silicone gasketed for weather light operations
- Color of grill features TGIC polyester powder coat finish with gloss of 15 standard colors

1. BOLLARD	2. LAMP/BALLAST	3. FINISH	4. GRILL COLOR	5. OPTIONS	6. MOUNTING
CB9S-24 24" CUT-OFF FLAT 150	27LED-WW 28 watts, IES Type S, 3000K CCT	AL Brushed Aluminum	AL Brushed Aluminum		
CB9S-36 36" CUT-OFF FLAT 150	27LED-WW 28 watts, IES Type S, 4000K CCT	BK Black	BK Black		
CB9S-42 42" CUT-OFF FLAT 150	27LED-WW 28 watts, IES Type S, 5000K CCT	BZ Bronze	BZ Bronze		
CB9S-24 24" CUT-OFF PYRM 150		GH Graphite	GH Graphite		
CB9S-36 36" CUT-OFF PYRM 150		WT White	WT White		
CB9S-42 42" CUT-OFF PYRM 150					

1. BOLLARD
60H (height) GRILL TOP STYLE WT (lbs.)
CB9S-24 24" CUT-OFF FLAT 150
CB9S-36 36" CUT-OFF FLAT 150
CB9S-42 42" CUT-OFF FLAT 150
CB9S-24 24" CUT-OFF PYRM 150
CB9S-36 36" CUT-OFF PYRM 150
CB9S-42 42" CUT-OFF PYRM 150

2. LAMP/BALLAST
150-277VAC (50/60Hz) Input
27LED-WW 28 watts, IES Type S, 3000K CCT
27LED-WW 28 watts, IES Type S, 4000K CCT
27LED-WW 28 watts, IES Type S, 5000K CCT

3. CONCRETE FINISH
M35 (standard concrete, weatherable finish)
ASR (polypropylene fibers)

4. COLOR
Standard Color
WH: Arctic White
BL: Blue
BLT: Matte Black
DB: Dark Bronze
DBN: Dark Bronze
TT: Titanium
WCS: Weathered Copper
MCS: Bronze Metallic
VBL: Venetian Bronze
CST: Copper
MAL: Matte Aluminum
MS: Matte Silver
AGN: Antique Green
LS: Light Gray

5. OPTIONS
RSC (Rough spray texture for use with epoxy, weatherable over with clear epoxy for hooded)
Colored Concrete (blast or dark color, for custom colored aggregate, customer must provide aggregate, sand, and substrate)

6. MOUNTING
EXT (External mounting)
INT (Internal mounting, not available with CB9S)

SPECIFICATIONS
CONCRETE BODY AND CAP
The body and cap are comprised of precast concrete reinforced with an internal cage structure of steel. The concrete bodies are one-piece castings with a minimum wall thickness of 3/75mm. All finished parts are sealed for the steel reinforcing cage and cast in place. The base plate for anchoring is 1/4" hot dipped galvanized steel.

GRILL
Grills shall be cast aluminum, minimum wall thickness of 250 inches. All castings shall be pure aluminum #356 alloy, free of any foreign material or porosity. Grills shall have cast-in-place, integral mounting legs for attachment to the concrete base. The inner lens shall be sealed to the grill frame. CB9S shall have a lightly etched DR acrylic lens. CB9S and CB9S models shall have an acrylic lens. The grill assembly shall have a silicone gasket on the top and bottom for weather light operation. Precision stainless steel screws may be loosened for service access.

CUT-OFF
Module with cutoff grill provides IES output classification meeting less than 2.5% of light is emitted above 90° horizontal.

ELECTRICAL MODULE
The electrical module consists of the ballast module and lamp housing. All housing parts are aluminum with stainless steel hardware. The ballast module is powered on an aluminum strip mounted to the underside of the lamp housing. The electrical module is silicone gasketed for weather light operation.

See next page

ARCHITECTURAL AREA LIGHTING
17766 Powder Street City of Industry, CA 91746
714-261-9999 / 1-800-360-2005 / www.aal.net
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RUBIX - model: WS-W2504, WS-W2505

WAC LIGHTING

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 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 & 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%
ELV Dimming: 100% - 15% (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

wacighting.com
Phone: (800) 526-2588
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

RUBIX - model: FM-W2505, FM-W2510

WAC LIGHTING

Responsible Lighting®

Fixture Type:

Catalog Number:

Project:

Location:

PRODUCT DESCRIPTION
Energy Star rated and CEC Title 24 compliant, this versatile Rubix model is available for both wall and ceiling mounting. Die cast aluminum constructed with etched glass in exterior environments, Rubix delivers a substantial lumen output with a minimalist design.

FEATURES

- Energy Star® rated
- CEC Title 24 Compliant
- Wall or Ceiling Mount
- 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%
ELV Dimming: 100% - 15% (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: FM-W2510-WT

wacighting.com
Phone: (800) 526-2588
Fax: (800) 526-2585

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44 Harbor Park Drive
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Model: WL-LED200

WAC LIGHTING

Responsible Lighting®

Fixture Type:

Catalog Number:

Project:

Location:

PRODUCT DESCRIPTION
Vertical rectangular 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.

FEATURES

- 316 marine grade cast stainless steel (SS) available
- Direct wiring, no driver needed
- Low profile, flush to wall aesthetics with no visible hardware
- 40,000 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, CRI: 85
Optional color lenses. Total power consumption of 3.0W
Mounting: Fits into 2" x 4" box with minimum inside dimensions of 3/4" x 2 7/8" x 2 1/4" includes bracket for J-Box mount.
Dimming: Dies to 10% with electronic low voltage (ELV) dimmer. Approved dimmers: Lutron Nova-T NTELV-300 & NTELV-600, Lutron Nova-T TELV-400, Lutron Nova-T TELV-300P, Lutron Nova-T SELV-300P, Lutron Nova-T MTELV-600
Standards: IP66, UL & cUL. Listed for wet locations.

FINISHES

SS	BK	WT	BN	BZ

ORDER NUMBER

Model #	Color	Finish
WL-LED200 120V	C White 3000K	SS Stainless Steel
WL-LED200F 277V	AM Amber 6500m	BK Black
	RD Red 6400m	WT White
	BL Blue 4200m	BN Brushed Nickel
		BZ Bronze

*Brushed Nickel Finish is 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
A	BOLLARD LIGHT	ARCHITECTURAL AREA LIGHTING	CB9S-42-CUT-OFF-FLAT-27LED-WW	6	3.5'	BOLLARD
B	RUBIX LED WALL MOUNT	WAC LIGHTING	WS-W2504	4	8'	WALL
C	RUBIX LED CEILING MOUNT	WAC LIGHTING	FM-W2505	1	9'	CANOPY CEILING
D	LEDme STEP LIGHT	WAC LIGHTING	WL-LED200-C-WT	7	1.5'	WALL AT SIDEWALK

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
No. 10767

P.E. MICHAEL E. TADEMA-WELANDT
DATE: 9-13-2017

NO.	DATE	REVISIONS
1	4-25-2017	APP'D
2	8-7-2017	MTW
3	8-29-2017	MTW
4	9-13-2017	MTW

REMOVED SIDEWALK ON ABUTTING CITY PARCEL
REVISOR PER STAFF & PEER REVIEW COMMENTS
SUBMITTED TO CITY OF PORTLAND FOR REVIEW

565 CONGRESS STREET
SUITE 310
PORTLAND, ME 04102

P.O. BOX 339
111 ELDERBERRY LANE
NEW GLOUCESTER, ME 04840

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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

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**

PRELIMINARY - NOT FOR CONSTRUCTION