



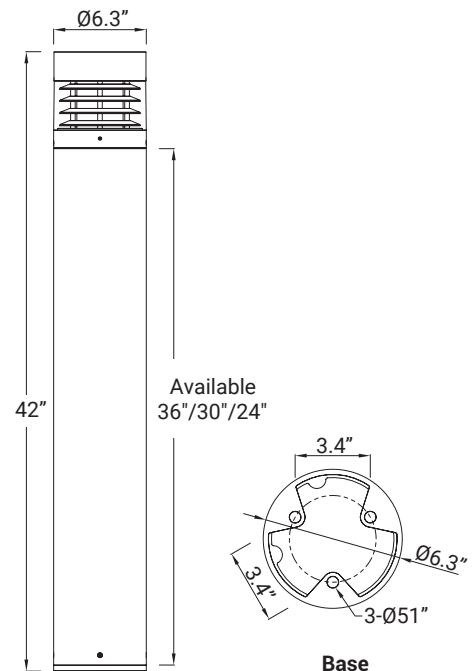
FEATURES

STANDING STRONG SO YOU CAN STAY SAFE.

This round flat top bollard features a modern cylinder design and a sturdy construction for resistance against outdoor environments and vandalism. A combined 360° lens and aluminum louver make for illumination that is both radiant, glare-free, and utilitarian. Three selectable CCT options make for a solution that is not just long-term, and energy efficient, but versatile. Dimmable and ideal for building entrances, walkways, courtyards, parks, and residential and hospitality applications.

TECHNICAL DETAILS

Lumens	1000L/1500L/2000L
CCT	3000K/4000K/5000K
Power	14W/19W/24W
Voltage	120-347V
Dimming	DIM10: 0-10V Flicker Free 5% Dimming
Distribution	Type V
Working Temp.	-40°C (-40°F) to +45°C (113°F)
IP Rating	IP65
Sensor	Photosensor
Finish	Bronze (BZ), Black (BK), Custom RAL
Mounting	Ground Mounting
Photometric	In accordance with IES LM79-08 and TM+30, TM-21
Warranty	5-year warranty for parts (labor not included)



OPTICS & PERFORMANCE

Features a durable polycarbonate diffuser lens with a full cut-off design which throws light forward without contributing to light pollution. An external aluminum cone reflector provides uniform, glare-free illumination for smooth, gentle pedestrian lighting.

Available in a lumen package of 1000L/1500L/2000L, with 3 selectable color temperatures of 3000K/4000K/5000K to enable different warm to cool moods and atmospheres. CCT factory set to 5000K and lumen factory set to 2000L.

Powered by ultra bright, energy efficient, and long lasting 2835 Bridgelux LEDs for an extended luminaire lifetime and environmental friendliness.

CONSTRUCTION

Body and head made from corrosion resistant die-cast aluminum; fixture head designed to facilitate thermal ventilation.

A combined IK08 rated construction for impact resistance in outdoor, public settings and an IP65 rating for outdoor exposure and wet location use make this fixture effectively vandal resistant.

Integrated driver inside luminaire head. Multi-lumen and Multi-CCT switches located on underside of luminaire head.

Painted with a TGIC thermoset polyester powder coat to reinforce durability and resist fading and corrosion.

Available in standard finishes of bronze or black; consult factory for custom RAL.

MOUNTING

Suitable for bolted ground mounting into concrete. Ground mounting kit included as standard.

MAINTENANCE

Fixture may be wiped down with a dry or damp cloth or hosed down for optimal performance.

OPTIONS & ACCESSORIES

INCLUDED:

- Integrated ON/OFF photocell which detects changing light levels and saves energy by automatically powering off fixture during the day.

SOLD SEPARATELY

- Emergency Battery Back-Up option available to order separately.
- Root mounting kit for soft ground installation available to order separately.
- 180° Spill Shield to order separately.
- 24", 30" & 36" Bollard Base to order separately.

DRIVER ELECTRICAL INFORMATION

Powered by high-quality constant-current LED drivers which are rated for 50 to 60Hz at 120-347V input, produce less than 20% THD, and have a power factor of .90 to 1.00. Thermally protected for increased performance and safety. Standard 4KV surge protection with 10KV option available.

DIMMING

DIM10 - 0-10V flicker free 5% dimming on either MVOLT 120-347V.

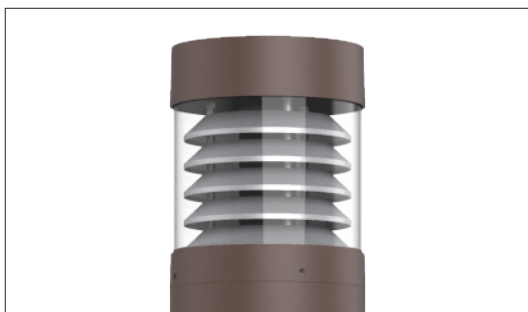
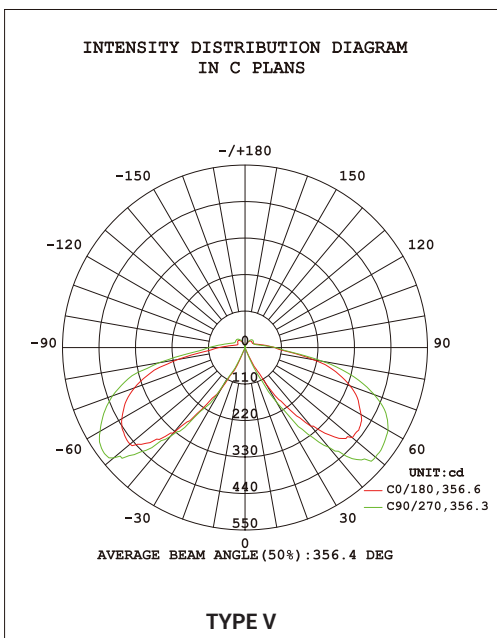
WARRANTY

5-year warranty for parts and components. (Labor not included)

LISTING

c-UL-us listed for feed through wiring.
DLC listed.
IP65 rated for wet location use.
IK08 rated for impact resistance.

PHOTOMETRIC



NOMINAL LUMENS	DELIVERED LUMENS	WATTAGE
1000L	1141L	14W
1500L	1546L	18W
2000L	1991L	24W

Based on 4000K, 90+ CRI. Actual wattage may vary +/- 5%



Example: **OBO-123-LED-1000L/1500L/2000L-DIM10-120-347V-30K/40K/50K-BK-PHC**

OBO-123-LED							
SERIES	LUMENS	DIMMING	VOLTAGE	CCT	FINISH	OPTION	EMERGENCY
OBO-123-LED	1000L/1500L/2000L	DIM10	120-347V	30K/40K/50K	BK - Black BZ - Bronze RAL - Custom	PHC- Standard ON/OFF Photocell (Included) OBO-180-SH - 180° Spill Shield A-OBO-RMK-BK - Bollard Root Mounting Kit for Soft Ground, Black Finish OBO-BASE-RD-36-BZ-TR - 36" Round Bollard Base with Triangle Base Mounting Kit, Bronze Finish OBO-BASE-RD-30-BZ-TR - 30" Round Bollard Base with Triangle Base Mounting Kit, Bronze Finish OBO-BASE-RD-24-BZ-TR - 24" Round Bollard Base with Triangle Base Mounting Kit, Bronze Finish SPD-10KV - 10KV Surge Protection	O-EMG-LED Contact factory for emergency battery option details

OBO-123-LED-1000L-1500L-2000L-DIM10-120-347V-30K-40K-50K-BK-PHC(1000L)

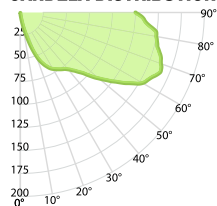
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INPUT WATTS: **13.3**

LUMENS: **1141**

EFFICACY: **86**

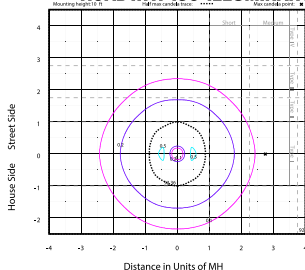
CANDELA DISTRIBUTION



CANDELA TABLE

	0°	90°
0°	0	0
10°	10	11
20°	49	55
30°	71	78
40°	81	90
50°	111	127
60°	153	169
70°	163	185
80°	150	169
90°	125	145

ROADWAY ISO-ILLUMINANCE



ZONAL LUMEN SUMMARY

ZONE	LUMENS	% LUMINAIRE
0° - 20°	9	1%
0° - 30°	39	3%
0° - 40°	88	8%
0° - 60°	292	26%
0° - 80°	628	55%
0° - 90°	785	69%

OBO-123-LED-1000L-1500L-2000L-DIM10-120-347V-30K-40K-50K-BK-PHC(1500L)

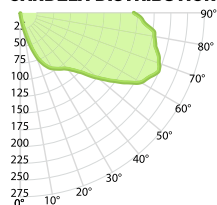
TEST NO.: **EL08052508**

INPUT WATTS: **18.1**

LUMENS: **1546**

EFFICACY: **85**

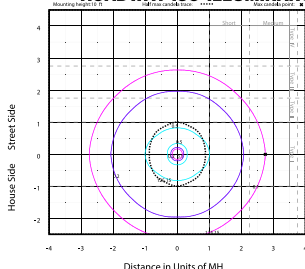
CANDELA DISTRIBUTION



CANDELA TABLE

	0°	90°
0°	1	1
10°	13	14
20°	67	75
30°	96	105
40°	109	122
50°	151	172
60°	208	229
70°	220	250
80°	203	229
90°	170	197

ROADWAY ISO-ILLUMINANCE



ZONAL LUMEN SUMMARY

ZONE	LUMENS	% LUMINAIRE
0° - 20°	13	1%
0° - 30°	53	3%
0° - 40°	120	8%
0° - 60°	395	26%
0° - 80°	851	55%
0° - 90°	1064	69%

OBO-123-LED-1000L-1500L-2000L-DIM10-120-347V-30K-40K-50K-BK-PHC(2000L)

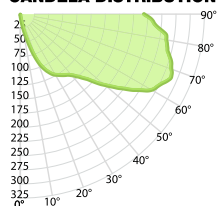
TEST NO.: **EL08052508**

INPUT WATTS: **23.3**

LUMENS: **1991**

EFFICACY: **85**

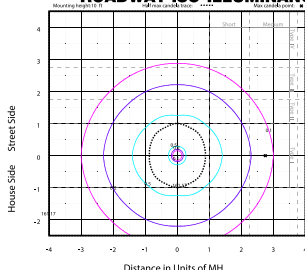
CANDELA DISTRIBUTION



CANDELA TABLE

	0°	90°
0°	1	1
10°	17	19
20°	86	96
30°	124	136
40°	141	158
50°	195	221
60°	268	294
70°	284	322
80°	262	295
90°	218	254

ROADWAY ISO-ILLUMINANCE



ZONAL LUMEN SUMMARY

ZONE	LUMENS	% LUMINAIRE
0° - 20°	16	1%
0° - 30°	69	3%
0° - 40°	154	8%
0° - 60°	509	26%
0° - 80°	1096	55%
0° - 90°	1370	69%