



FEATURES

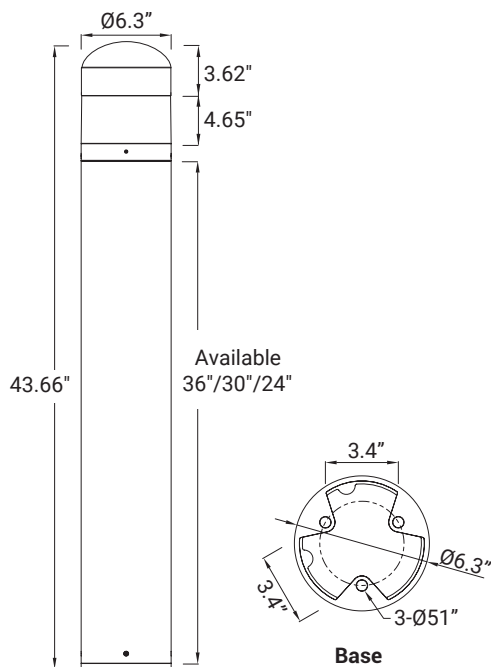
STANDING STRONG SO YOU CAN STAY SAFE.

This bollard features a modern cylinder design and a sturdy construction for resistance against outdoor environments and vandalism. A 360° frosted lens makes for illumination that is both radiant, glare-free, and utilitarian. An integrated photocell and 3 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.

IP65 and IK10 rated.

TECHNICAL DETAILS

Lumens	1200L/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 & IK10
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 frosted lens for a uniform, glare-free illumination ideal for smooth, gentle pedestrian lighting.

Available in a lumen package of 1200L/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 LEDs for an extended luminaire lifetime and environmental friendliness.

CONSTRUCTION

Durable body made from a durable one-piece extruded aluminum shaft. Body and head made from corrosion resistant die-cast aluminum; fixture head designed to facilitate thermal ventilation.

IK10 rated construction for impact resistance in outdoor, public settings.

IP65 rated for outdoor exposure and wet location use.

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. Triangular 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 - Flicker Free 5% Dimming Standard (DIM10) 0-10V dimming on either MVOLT 120-347V

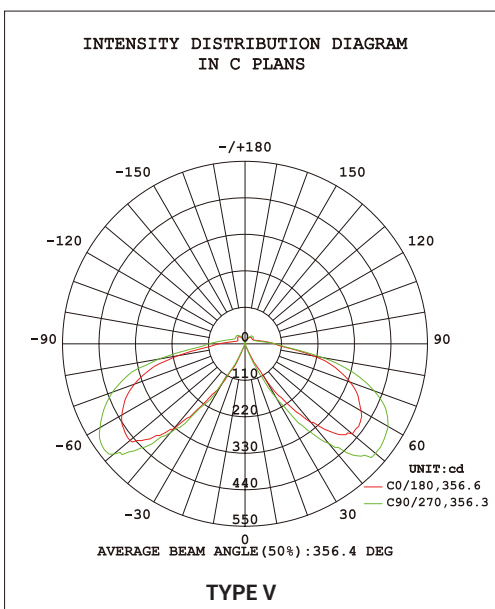
WARRANTY

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

LISTING

c-UL-us listed for feed through wiring.
IP65 rated for wet location use.
IK10 rated for impact resistance.

DISTRIBUTION



NOMINAL LUMENS	DELIVERED LUMENS	WATTAGE
1200L	1206L	13W
1500L	1698L	18W
2000L	2078L	22W

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

PRODUCT FEATURES



Example: **OBO-138-LED-1200L/1500L/2000L-DIM10-120-347V-30K/40K/50K-BZ-PHC**

OBO-138-LED							
SERIES	LUMENS	DIMMING	VOLTAGE	CCT	FINISH	OPTION	EMERGENCY
OBO-138-LED	1200L/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

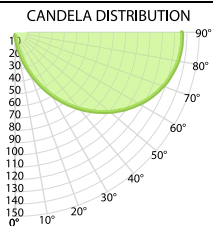
OBO-138-LED-1200L-1500L-2000L-DIM10-120-347V-30K-40K-50K-BZ-PHC(1200L)

TEST NO.: EL08052508

INPUT WATTS: 12.4

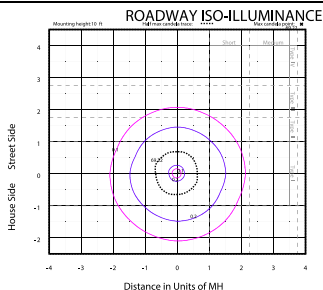
LUMENS: 1206

EFFICACY: 97



CANDELA TABLE

	0°	90°
0°	2	2
10°	13	12
20°	34	34
30°	59	59
40°	81	83
50°	101	104
60°	117	120
70°	128	133
80°	135	140
90°	136	141



ZONAL LUMEN SUMMARY

ZONE	LUMENS	% LUMINAIRE
0° - 20°	8	1%
0° - 30°	31	3%
0° - 40°	76	6%
0° - 60°	247	20%
0° - 80°	510	42%
0° - 90°	659	55%

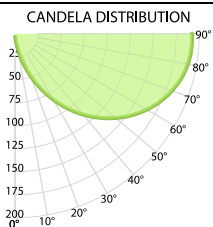
OBO-138-LED-1200L-1500L-2000L-DIM10-120-347V-30K-40K-50K-BZ-PHC(1500L)

TEST NO.: EL08052508

INPUT WATTS: 17.5

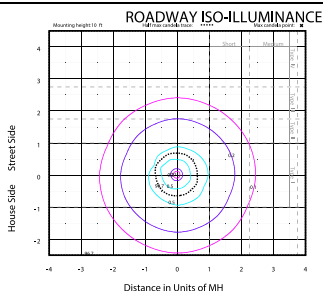
LUMENS: 1698

EFFICACY: 97



CANDELA TABLE

	0°	90°
0°	3	3
10°	18	17
20°	49	48
30°	83	83
40°	115	115
50°	143	144
60°	165	168
70°	181	185
80°	190	195
90°	192	197



ZONAL LUMEN SUMMARY

ZONE	LUMENS	% LUMINAIRE
0° - 20°	11	1%
0° - 30°	43	3%
0° - 40°	107	6%
0° - 60°	348	20%
0° - 80°	719	42%
0° - 90°	928	55%

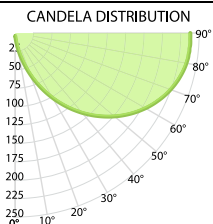
OBO-138-LED-1200L-1500L-2000L-DIM10-120-347V-30K-40K-50K-BZ-PHC(2000L)

TEST NO.: EL08052508

INPUT WATTS: 21.8

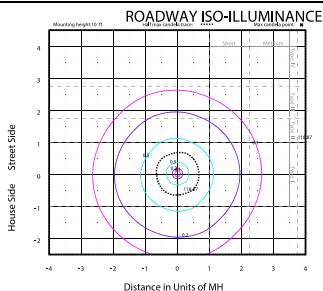
LUMENS: 2078

EFFICACY: 95



CANDELA TABLE

	0°	90°
0°	4	4
10°	21	25
20°	59	64
30°	102	107
40°	141	146
50°	176	180
60°	204	208
70°	225	228
80°	236	238
90°	238	240



ZONAL LUMEN SUMMARY

ZONE	LUMENS	% LUMINAIRE
0° - 20°	14	1%
0° - 30°	53	3%
0° - 40°	131	6%
0° - 60°	426	20%
0° - 80°	879	42%
0° - 90°	1136	55%