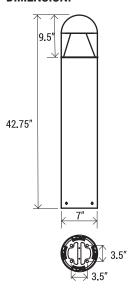




#### **DIMENSION:**



NOMINAL LUMENS	DELIVERED LUMENS	*WATTAGE				
2000	2139	20 W				

Based on 4000K, 85+ CRI. Actual wattage may vary +/- 5%

#### **FEATURES**

The LED Bollard 105 has a sleek, low profile designed to provide extreme vandal resistance and deliver high performance and efficiency. High efficacy of 100 lumens per watt, ideal for replacing 100W metal halide. Aluminum cone reflector provides uniform illumination while reducing glare with its even beam pattern. Small but durable and gasketed to seal out outside contaminants, the LED Bollard is perfect for entrances, courtyards, walkways, office grounds, residential, and hospitality applications.

LUMENS	2000
CCT & DYNAMIC PLATFORMS	30K, 40K, 50K
CRI	85+
COLOR QUALITY	3 Step MacAdam Ellipse
SIZE	3.5' L X 7" W
DIMMING & CONTROL	0-10V Flicker Free 1% Dimming Standard (DIM10) LUTH
LIFETIME	L70 at 50,000 Hours
PHOTOMETRIC TESTS	In Accordance with IES LM79-08, LM80 and TM-30, TM-21















#### **OPTICAL SYSTEM**

Clear polycarbonate lens with internal flutes and full gasketing at bottom edge provides durability and superior resistance to vandalism.

#### CONSTRUCTION

One-piece 7-inch round extruded aluminum shaft (bottom housing) with .125" thick side walls for supreme durability. Top cover is one-piece diecast aluminum round. Fixture head allows for ventilation surrounding the luminaire enclosure. Overall height is 43" standard.

#### **FINISH**

TGIC thermoset polyester powder coat that reinforces durability and resistance to fade and corrosion. Standard finishes in Bronze or Black.

#### MOUNTING

Four 4.75" x 16T x 10" anchor bolts included.

#### **OPTIONS**

Optional backup battery provides 90 minutes of battery life at 50% of initial lumens.

#### **DRIVER ELECTRICAL INFORMATION**

Powered by high-quality constant-current power LED drivers rated for 50 to 60Hz at 120V/277V. Produce less than 20% THD, have a power factor of .90 to 1.00. Thermally protected for increased performance and safety.

#### **DIMMING & DRIVER INFORMATION**

**DIM10** - Flicker Free 1% Dimming Standard (DIM10) 0-10V dimming on either MVOLT 120, 277 or 347V.

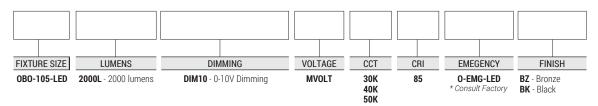
#### **WARRANTY**

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

#### **LISTINGS**

UL 1598 UL 8750 CSA C22.2 RoHS compliant Damp and Wet Location Rated IP65 rated

## Example: OBO-105-LED-2000L-DIM10-MVOLT-40K-85-BZ







# LED Bollard Lighting Series

### OBO-105-LED-2000L-DIM10-MVOLT-40K-85

TEST NO.: **EL031827** 

INPUT WATTS: 20.8 CRI: **85** EFFICACY: 103 CCT: 4000K SPACING CRITERIA: 11.46

# Candle Power Distribution (Candelas) 132 397 530

Zonal Lumens Summary										
Zone	Lumens	%Lamp	%Fixt							
0-20	18.71	0.9	0.9							
0-30	132.16	6.2	6.2							
0-40	396.42	18.5	18.5							
0-60	1211.13	56.6	56.6							
0-80	1837.89	85.9	85.9							
0-90	1948.22	91.1	91.1							

Lumina	uminance (Average candela/M²)										
Angle in Degrees	Average 0°	Average 45°	Average 90°	<b>Zone</b> 0-10							
45 55	4923 5815	5160 5981	4519 6281	10-20 20-30							
65	7074	6374	8144	30-40 40-50							
75 85	5493 6781	5958 7139	7731 10775	50-60 60-70							
				70-80							

umens Pe	er Zone	Candela Tabulation						
Zone	Lumens		Q					
0-10 10-20 20-30 30-40 40-50 50-60 60-70 70-80 80-90	0.3 18.41 113.46 264.26 383.77 430.93 391.6 235.16 110.33	0 5 15 25 35 45 55 65 75 85	0.821 2.321 61.378 309.46 380.74 498.26 477.41 427.93 203.52 84.597					
		90	64.636					

п					
K			Light	Cone of	
K		9.6	2.1	0.21	
	0	10.1	11	0.05	

		<b>J</b>			
2	0.21	2.1	9.6		
4	0.05	4.1	19.1		
6	0.02	6.2	28.7		
8	0.01	8.3	38.2		
10	0.01	10.4	47.8		
12	0.01	12.4	57.4		
(FT.)Distance to Plane	(FC.) Initial Footcandle at Nadir	(FT.) Beam Vert. Spread	(FT.) Beam Horiz. Spread		

BEAM DIA. MEASURED AT 50% OF NADIR F.C.

Coefficients of Utilization - Zonal Cavity Method Effective Floor Cavity Reflectance 0.20

	RC	80%			70% 50%			30%				10%			0%				
	RW	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%
ROOM CAVITY RATIO	0 1 2 3 4 5 6 7 8 9	117 103 91 81 73 66 60 54 50 46 43	117 97 81 68 58 51 44 39 35 31 28	117 92 73 58 48 40 34 29 25 22 19	117 87 65 51 40 32 26 22 18 16	113 99 88 78 70 63 57 52 48 44 41	113 94 78 66 56 49 43 38 33 30 27	113 89 71 57 47 39 33 28 24 21	113 84 64 50 39 32 26 21 18 15	106 88 73 62 53 45 40 35 31 28 25	106 84 67 54 44 37 31 27 23 20 18	106 80 61 47 38 30 25 21 17 15	100 82 68 58 49 42 37 33 29 26 24	100 79 63 51 42 35 30 25 22 19	100 76 58 45 36 29 24 20 17 14	94 77 64 54 46 40 35 31 27 25 22	94 75 59 48 40 33 28 24 21 18 16	94 72 56 43 35 28 23 19 16 14	91 69 53 41 32 25 20 17 14 11
	RC - Ceiling	Cavity	Reflec	tance	RW -	Wall Re	eflectan	ce											

RC - Ceiling Cavity Reflectance