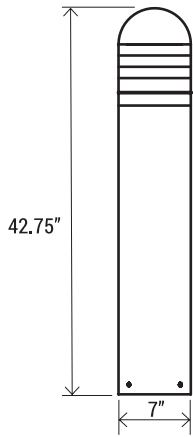


DIMENSION:



NOMINAL LUMENS	DELIVERED LUMENS	*WATTAGE
2000	1987	37 W

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

FEATURES

The LED louvered bollard 103 has a sleek traditional profile appearance and stylish design to provide extreme vandal resistance. Horizontal louver blades with a 60° upward pitch and delivering light source cutoff above horizontal. 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	2000L
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, .125" thick side walls for increased durability. Top cover is one-piece die-cast aluminum round, secured to louvers by hidden Allen screws in keyhole slots. Die-cast aluminum louvers with stacked ribs placed vertically at 90° intervals. Horizontal louver blades with a 60° upward pitch and delivering light source cutoff above horizontal. Louver secured to shaft by four internal tie rods. 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-103-LED-2000L-DIM10-MVOLT-30K/40K/50K-BZ**

FIXTURE SIZE	LUMENS	DIMMING	VOLTAGE	CCT	EMEGENCY	FINISH
OBO-103-LED	2000L - 2000 lumens	DIM10 - 0-10V Dimming	MVOLT	30K/40K/50K	O-EMG-LED <i>* Consult Factory</i>	BZ - Bronze BK - Black



OBO-103-LED-2000L-DIM10-MVOLT-30K-85

TEST NO.: **EL06281992**

INPUT WATTS: **36.9**

LUMENS: **1987**

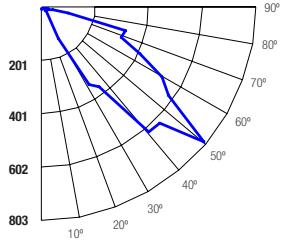
CRI: **85**

EFFICACY: **54**

CCT: **3000K**

SPACING CRITERIA: **11.52**

Candle Power Distribution (Candelas)



Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-20	0.97	0.00	0.00
0-30	43.29	2.20	2.20
0-40	284.69	14.30	14.30
0-60	1209.89	60.70	60.90
0-80	1881.38	94.40	94.70
0-90	1944.18	97.60	97.90

Luminance (Average candela/M²)

Angle in Degrees	Average 0°	Average 45°	Average 90°
45	1102221	1201092	1090273
55	1229079	1337718	1252592
65	1311330	1656245	1183777
75	1226124	1673310	1536292
85	445223	566347	380497

Lumens Per Zone

Zone	Lumens
0-10	0.10
10-20	0.88
20-30	42.32
30-40	241.40
40-50	438.88
50-60	486.32
60-70	402.37
70-80	269.12
80-90	62.81

Candela Tabulation

0	0.729
5	0.610
15	2.310
25	22.450
35	263.840
45	569.220
55	514.870
65	404.750
75	231.770
85	28.340
90	12.050

Coefficients of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance 0.20

RC	RW	80%				70%				50%				30%				10%				0%
		70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%			
0	118	118	118	118	115	115	115	115	110	110	110	104	104	104	100	100	100	100	98			
1	104	98	93	88	101	96	91	86	91	87	83	87	83	80	82	80	77	75	75			
2	92	81	72	65	89	79	71	64	75	68	62	71	65	60	68	63	59	56	56			
3	81	68	57	49	78	66	56	49	62	54	47	59	52	46	56	50	45	42	42			
4	72	57	46	38	69	56	46	38	53	44	37	50	42	36	47	41	35	32	32			
5	65	49	38	30	62	48	37	30	45	36	29	43	35	28	40	33	28	25	25			
6	58	42	32	24	56	41	31	24	39	30	23	37	29	23	35	28	22	20	20			
7	53	37	27	19	51	36	26	19	34	25	19	32	24	18	31	24	18	16	16			
8	49	33	23	16	47	32	22	16	30	22	15	29	21	15	27	20	15	13	13			
9	45	29	20	13	43	28	19	13	27	19	13	26	18	12	24	17	12	10	10			
10	41	26	17	11	40	26	17	11	24	16	11	23	16	10	22	15	10	8	8			

RC - Ceiling Cavity Reflectance

RW - Wall Reflectance

Cone of Light			
2	0.18	5.1	1
4	0.05	10.1	2
6	0.02	15.2	3
8	0.01	20.2	4
10	0.01	25.3	5.1
12	0.01	30.3	6.1

(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.