





**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 die-cast 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**

FIXTURE SIZE	LUMENS	DIMMING	VOLTAGE	CCT	CRI	EMEGENCY	FINISH
OBO-105-LED	2000L - 2000 lumens	DIM10 - 0-10V Dimming	MVOLT	30K 40K 50K	85	O-EMG-LED <i>* Consult Factory</i>	BZ - Bronze BK - Black



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

TEST NO.: **EL031827**

INPUT WATTS: **20.8**

LUMENS: **2139**

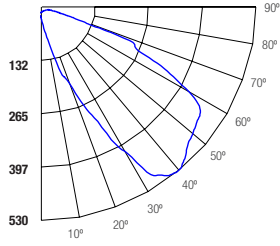
CRI: **85**

EFFICACY: **103**

CCT: **4000K**

SPACING CRITERIA: **11.46**

**Candle Power Distribution (Candelas)**



**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

**Luminance (Average candela/M<sup>2</sup>)**

Angle in Degrees	Average 0°	Average 45°	Average 90°
45	4923	5160	4519
55	5815	5981	6281
65	7074	6374	8144
75	5493	5958	7731
85	6781	7139	10775

**Lumens Per Zone**

Zone	Lumens
0-10	0.3
10-20	18.41
20-30	113.46
30-40	264.26
40-50	383.77
50-60	430.93
60-70	391.6
70-80	235.16
80-90	110.33

**Candela Tabulation**

0	0.821
5	2.321
15	61.378
25	309.46
35	380.74
45	498.26
55	477.41
65	427.93
75	203.52
85	84.597
90	64.636

**Coefficients of Utilization - Zonal Cavity Method**

Effective Floor Cavity Reflectance 0.20

ROOM CAVITY RATIO	RC	80%				70%				50%				30%				10%				0%
		RW	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	30%	10%	50%	30%	10%				
0	117	117	117	117	117	113	113	113	113	106	106	106	100	100	100	94	94	94	91			
1	103	97	92	87	87	99	94	89	84	88	84	80	82	79	76	77	75	72	69			
2	91	81	73	65	65	88	78	71	64	73	67	61	68	63	58	64	59	56	53			
3	81	68	58	51	51	78	66	57	50	62	54	47	58	51	45	54	48	43	41			
4	73	58	48	40	40	70	56	47	39	53	44	38	49	42	36	46	40	35	32			
5	66	51	40	32	32	63	49	39	32	45	37	30	42	35	29	40	33	28	25			
6	60	44	34	26	26	57	43	33	26	40	31	25	37	30	24	35	28	23	20			
7	54	39	29	22	22	52	38	28	21	35	27	21	33	25	20	31	24	19	17			
8	50	35	25	18	18	48	33	24	18	31	23	17	29	22	17	27	21	16	14			
9	46	31	22	16	16	44	30	21	15	28	20	15	26	19	14	25	18	14	11			
10	43	28	19	13	13	41	27	19	13	25	18	13	24	17	12	22	16	12	10			

Cone of Light			
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.

RC - Ceiling Cavity Reflectance

RW - Wall Reflectance