

REPORT NUMBER: ITL88647-GONIOPHOTOMETRY

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ISSUE DATE: 12/19/16

PREPARED FOR: LUMOS LIGHTING

CATALOG NUMBER: RP-DN-OWL-36-3500-WHT

LUMINAIRE: FABRICATED WHITE PAINTED METAL TOP AND INNER RING

HOUSING/REFLECTOR, 6 WHITE CIRCUIT BOARDS EACH WITH 18 LEDS MOUNTED ON OUT-FACING SURFACE OF INNER RING HOUSING, 2-PIECE TRANSLUCENT WHITE DROP DIFFUSER RING. 26" ROUND OPEN CENTER. DRIVER IS EXPOSED IN THE OPTICAL COMPARTMENT ON THE 180-DEGREE SIDE OF FIXTURE.

LAMPS: ONE HUNDRED EIGHT WHITE LIGHT EMITTING DIODES (LEDs), AIMED AT THE HORIZON.

INPUT ELECTRICAL: 120.0 VOLTS, 36.8 WATTS, 0.308 AMPS

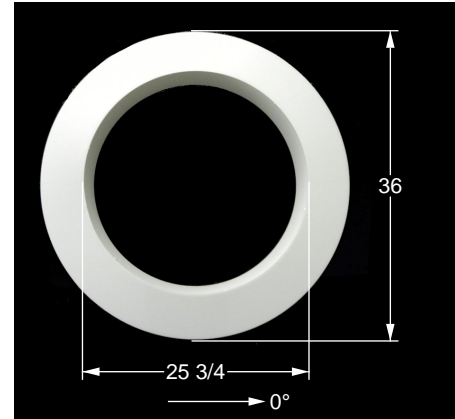
MOUNTING: SUSPENDED

LED DRIVER: AC ELECTRONICS AC-40CD1.4APMZ, DRIVER HAS MULTIPLE LEADS, ONLY LINE INPUT AND LED OUTPUT LEADS CONNECTED FOR THIS TEST. CLIENT STATES DRIVER PROGRAMMED FOR 600mA OUTPUT.

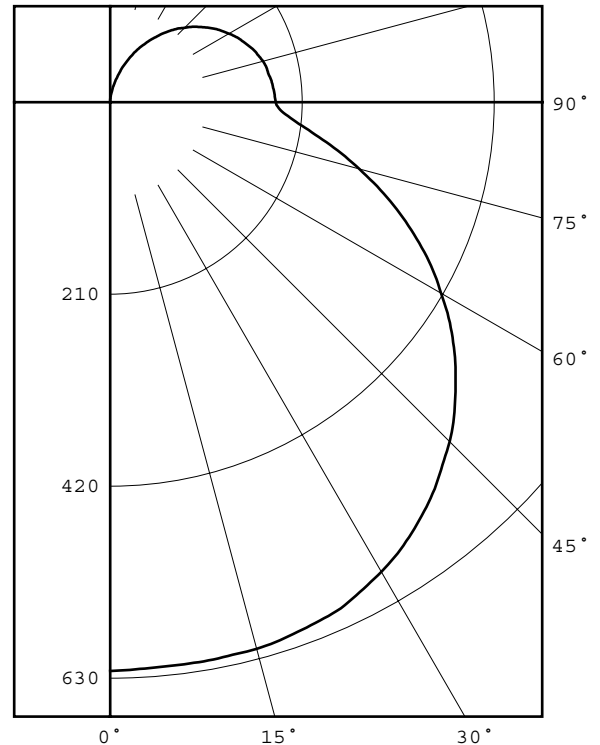
NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED AT RATED INPUT VOLTAGE (120VAC, 60Hz) TO THE DRIVER.

TEST PROCEDURE: IESNA LM-79-08

TEST DISTANCE = 35.0 FEET



DEG	CANDELA	LUMENS
0	622	
5	620	59
15	619	175
25	607	280
35	575	360
45	525	405
55	458	409
65	376	372
75	282	298
85	198	220
90	181	
95	179	195
105	173	182
115	159	158
125	140	125
135	115	90
145	87	55
155	57	27
165	27	8
175	7	1
180	2	



ZONAL ZONE	LUMEN LUMENS	SUMMARY %FIXT
0- 30	514	15.0
0- 40	874	25.6
0- 60	1689	49.4
0- 90	2580	75.4
90-120	535	15.7
90-130	661	19.3
90-150	805	23.5
90-180	841	24.6
0-180	3421	100.0

Checked       M KLOPF        
Approved       R BEATTIE        
Lighting Engineer

EFFICACY = 93.0 lm/W  
CIE TYPE - SEMI-DIRECT  
LUMINAIRE SPACING CRITERION = 1.42  
BEAM ANGLE (50%) : 144.0 DEGREES  
FIELD ANGLE (10%) : 306.8 DEGREES



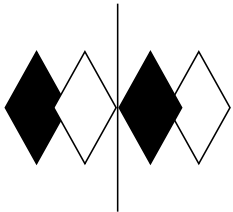
INDEPENDENT TESTING LABORATORIES, INC.  
4066 CAMELOT CIRCLE, LONGMONT, CO 80504 USA

PHONE: (303) 442-1255 • FAX: (970) 535-3114 • E-MAIL: [itl@itlboulder.com](mailto:itl@itlboulder.com) • WEBSITE: [www.itlboulder.com](http://www.itlboulder.com)

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LUMINANCE DATA IN CANDELA/SQ M	
ANGLE	AVERAGE
IN DEG	
45	1445.
55	1664.
65	1580.
75	1457.
85	1384.



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CANDELA DISTRIBUTION

0.0	622
5.0	620
10.0	620
15.0	619
20.0	614
25.0	607
30.0	593
35.0	575
40.0	552
45.0	525
50.0	493
55.0	458
60.0	418
65.0	376
70.0	330
75.0	282
80.0	236
85.0	198
90.0	181
95.0	179
100.0	176
105.0	173
110.0	167
115.0	159
120.0	150
125.0	140
130.0	128
135.0	115
140.0	102
145.0	87
150.0	72
155.0	57
160.0	42
165.0	27
170.0	15
175.0	7
180.0	2



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5-DEGREE  
ZONAL LUMEN SUMMARY

0- 5	15
5- 10	44
10- 15	73
15- 20	102
20- 25	128
25- 30	152
30- 35	172
35- 40	188
40- 45	199
45- 50	206
50- 55	207
55- 60	203
60- 65	193
65- 70	179
70- 75	160
75- 80	139
80- 85	117
85- 90	103
90- 95	99
95-100	97
100-105	94
105-110	89
110-115	83
115-120	75
120-125	67
125-130	58
130-135	49
135-140	40
140-145	32
145-150	24
150-155	16
155-160	10
160-165	6
165-170	3
170-175	1
175-180	0

10-DEGREE  
ZONAL LUMEN SUMMARY

0- 10	59
0- 20	234
0- 30	514
0- 40	874
0- 50	1279
0- 60	1689
0- 70	2061
0- 80	2359
0- 90	2580
0-100	2775
0-110	2957
0-120	3115
0-130	3240
0-140	3330
0-150	3385
0-160	3412
0-170	3420
0-180	3421



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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
0	113	113	113	113	113	108	108	108	108	97	97	97	88	88	88	79	79	79	75
1	100	95	90	85	85	95	90	85	81	81	77	74	73	70	67	66	63	61	57
2	90	81	73	67	67	85	77	70	64	69	64	59	62	58	54	56	52	49	46
3	82	70	61	54	54	77	67	59	52	60	54	48	54	49	44	48	44	40	37
4	74	62	52	45	45	70	59	50	43	53	46	40	48	42	37	43	38	34	31
5	68	54	45	38	38	64	52	43	37	47	40	34	42	36	32	38	33	29	26
6	62	49	39	33	33	59	46	38	32	42	35	29	38	32	27	34	29	25	23
7	58	44	35	29	29	54	42	34	28	38	31	26	34	28	24	31	26	22	20
8	53	40	31	25	25	51	38	30	24	35	28	23	31	25	21	29	23	20	17
9	50	36	28	22	22	47	35	27	22	32	25	20	29	23	19	26	21	18	15
10	47	33	25	20	20	44	32	24	19	29	23	18	27	21	17	24	19	16	14

ALL CANDELA, LUMENS, LUMINANCE, AND VCP VALUES IN THIS REPORT ARE BASED ON ABSOLUTE PHOTOMETRY. THE COEFFICIENT OF UTILIZATION VALUES ARE BASED ON THE TOTAL ABSOLUTE LUMEN OUTPUT OF THIS TEST SAMPLE.

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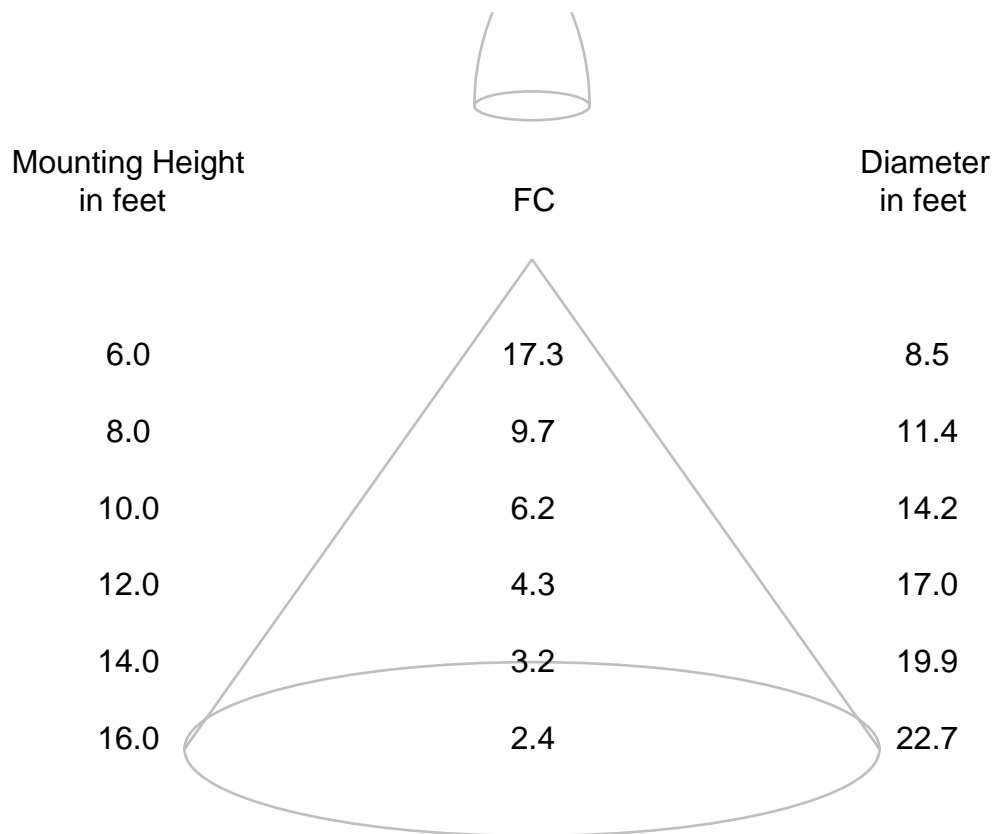
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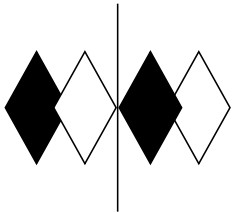
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## CONE OF LIGHT DIAGRAM

(diameter shown is where fc value is half the fc at nadir)





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