



REPORT NUMBER: ITL88648-GONIOPHOTOMETRY

ISSUE DATE: 11/30/16

PREPARED FOR: LUMOS LIGHTING

CATALOG NUMBER: RP-LUM-48-3500-WHT

LUMINAIRE: FABRICATED WHITE PAINTED METAL TOP HOUSING/REFLECTOR, 12 WHITE CIRCUIT BOARDS EACH WITH 18 LEDS, 3-PIECE TRANSLUCENT WHITE CYLINDRICAL DROP DIFFUSER RING. 35" ROUND OPEN CENTER.

LAMPS: TWO HUNDRED SIXTEEN WHITE LIGHT EMITTING DIODES (LEDs), VERTICAL BASE-UP POSITION.

INPUT ELECTRICAL: 120.0 VOLTS, 72.4 WATTS, 0.604 AMPS

MOUNTING: SUSPENDED

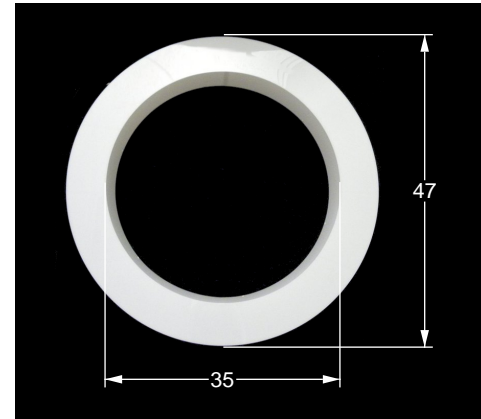
LED DRIVERS: TWO AC ELECTRONICS

AC-40CD1.4APMZ, DRIVERS HAVE MULTIPLE LEADS, ONLY LINE INPUT AND LED OUTPUT LEADS CONNECTED FOR THIS TEST, CLIENT STATES EACH DRIVER PROGRAMMED FOR 400mA OUTPUT.

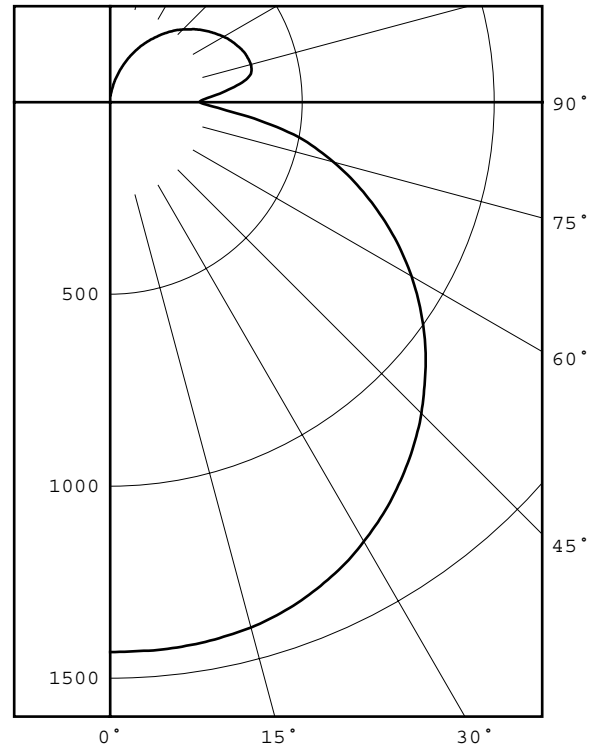
NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED AT RATED INPUT VOLTAGE (120VAC, 60Hz) TO THE DRIVERS.

TEST PROCEDURE: IESNA LM-79-08

TEST DISTANCE = 35.0 FEET



DEG	CANDELA	LUMENS
0	1432	
5	1432	137
15	1416	400
25	1363	629
35	1271	796
45	1146	885
55	993	888
65	811	802
75	602	634
85	331	373
90	234	
95	294	322
105	379	397
115	359	356
125	319	286
135	268	208
145	207	131
155	141	66
165	74	22
175	23	3
180	16	



ZONAL ZONE	LUMEN SUMMARY LUMENS	%FIXT
0- 30	1166	15.9
0- 40	1962	26.7
0- 60	3735	50.9
0- 90	5544	75.6
90-120	1075	14.7
90-130	1361	18.6
90-150	1700	23.2
90-180	1791	24.4
0-180	7335	100.0

EFFICACY = 101.3 lm/W
CIE TYPE - SEMI-DIRECT
LUMINAIRE SPACING CRITERION = 1.37
BEAM ANGLE (50%) : 139.3 DEGREES
FIELD ANGLE (10%) : 309.4 DEGREES

Checked M KLOPF
Approved N WHITE
 Lighting Engineer



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NVLAP[®]
 TESTING
 NVLAP LAB CODE: 200925-0
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LUMINANCE DATA IN CANDELA/SQ M

ANGLE IN DEG	AVERAGE
45	1972.
55	1805.
65	1618.
75	1394.
85	1171.



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CANDELA DISTRIBUTION

0.0	1432
5.0	1432
10.0	1427
15.0	1416
20.0	1395
25.0	1363
30.0	1321
35.0	1271
40.0	1212
45.0	1146
50.0	1072
55.0	993
60.0	906
65.0	811
70.0	709
75.0	602
80.0	485
85.0	331
90.0	234
95.0	294
100.0	364
105.0	379
110.0	373
115.0	359
120.0	341
125.0	319
130.0	295
135.0	268
140.0	239
145.0	207
150.0	175
155.0	141
160.0	107
165.0	74
170.0	44
175.0	23
180.0	16



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5-DEGREE
ZONAL LUMEN SUMMARY

0- 5	34
5- 10	102
10- 15	169
15- 20	232
20- 25	289
25- 30	340
30- 35	382
35- 40	414
40- 45	437
45- 50	448
50- 55	449
55- 60	439
60- 65	417
65- 70	385
70- 75	343
75- 80	291
80- 85	222
85- 90	151
90- 95	142
95-100	180
100-105	200
105-110	197
110-115	186
115-120	170
120-125	153
125-130	134
130-135	114
135-140	94
140-145	74
145-150	56
150-155	40
155-160	26
160-165	15
165-170	7
170-175	2
175-180	0

10-DEGREE
ZONAL LUMEN SUMMARY

0- 10	137
0- 20	537
0- 30	1166
0- 40	1962
0- 50	2847
0- 60	3735
0- 70	4537
0- 80	5171
0- 90	5544
0-100	5866
0-110	6263
0-120	6619
0-130	6905
0-140	7113
0-150	7244
0-160	7310
0-170	7332
0-180	7335



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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	98	98	98	88	88	88	80	80	80	76
1	101	96	91	86	86	96	91	86	82	82	79	75	74	71	69	67	64	62	59
2	91	82	74	68	68	86	78	71	65	70	65	60	63	59	55	57	53	50	47
3	82	71	62	55	55	78	68	60	53	61	55	49	55	50	45	49	45	42	38
4	75	62	53	46	46	71	59	51	44	54	47	41	48	43	38	44	39	35	32
5	68	55	46	39	39	65	53	44	38	48	41	35	43	37	33	39	34	30	27
6	63	49	40	34	34	59	47	39	33	43	36	30	39	33	28	35	30	26	23
7	58	44	36	29	29	55	42	34	28	39	32	27	35	29	25	32	27	23	20
8	54	40	32	26	26	51	39	31	25	35	28	23	32	26	22	29	24	20	18
9	50	37	29	23	23	48	35	28	22	32	26	21	30	24	20	27	22	18	16
10	47	34	26	21	21	45	32	25	20	30	23	19	27	22	18	25	20	16	15

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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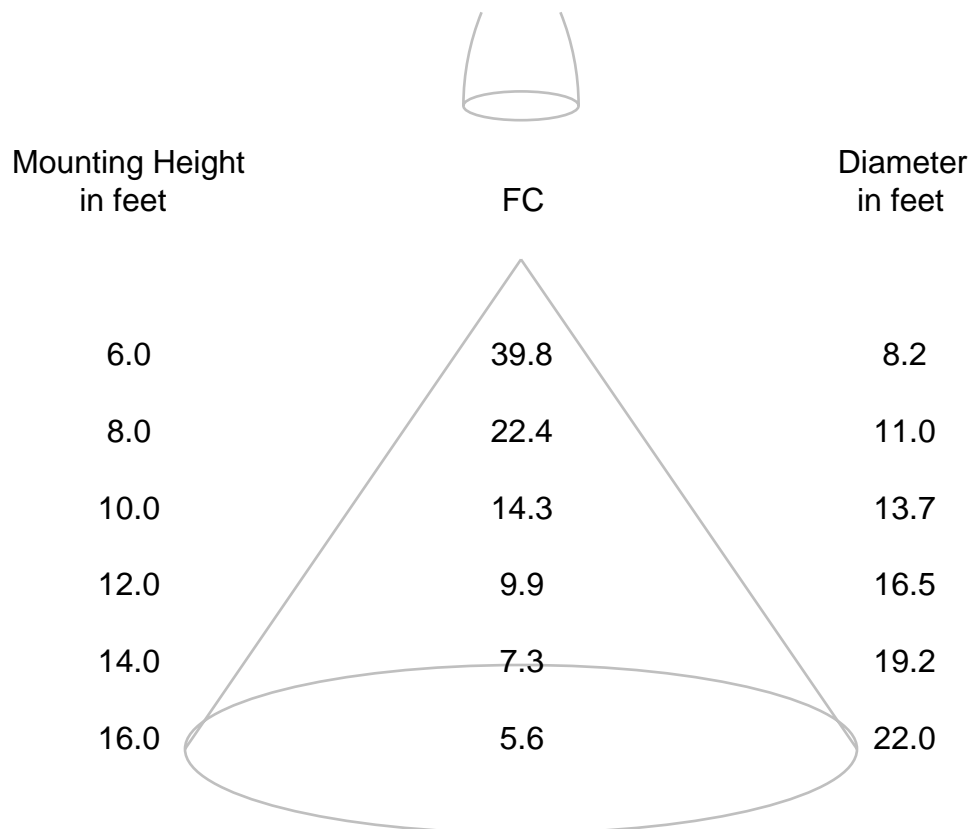
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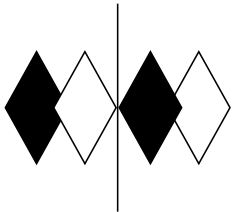
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CONE OF LIGHT DIAGRAM

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





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