

REPORT NUMBER: ITL93474-GONIOPHOTOMETRY

PAGE: 1 OF 7

ISSUE DATE: 05/06/20

PREPARED FOR: LUMOS LIGHTING

ADDRESS: 145 YUMA STREET
DENVER, CO 80223

CATALOG NUMBER: RP-LUM-48

LUMINAIRE: FABRICATED WHITE PAINTED METAL TOP HOUSING/REFLECTOR, 13 WHITE CIRCUIT BOARDS EACH WITH 9 LEDS, 5-PIECE TRANSLUCENT WHITE FROSTED CYLINDRICAL DROP DIFFUSER RING WITH CLEAR 6-PIECE CLEAR PLASTIC REFLECTOR MOUNTING RING. 35" ROUND OPEN CENTER.

LAMPS: ONE HUNDRED SEVENTEEN WHITE LIGHT EMITTING DIODES (LEDS), VERTICAL BASE-UP POSITION.

INPUT ELECTRICAL: 120.0 VOLTS, 63.4 WATTS, 0.530 AMPS

MOUNTING: SUSPENDED

LED DRIVERS: TWO AC ELECTRONICS AC-50CD1.4APC7, DRIVERS HAVE MULTIPLE LEADS, ONLY LINE INPUT AND LED OUTPUT LEADS CONNECTED FOR THIS TEST, CLIENT STATES ONE DRIVER PROGRAMMED FOR 900mA OUTPUT AND SECOND DRIVER PROGRAMMED FOR 1150mA OUTPUT.

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

TEST PROCEDURE: IESNA LM-79-19

TEST DISTANCE = 35.0 FEET



THIS REPORT WITH THE USE OF THE NVLAP LOGO SHALL NOT BE USED BY THE CLIENT TO CLAIM PRODUCT CERTIFICATION, APPROVAL, OR ENDORSEMENT BY NVLAP, NIST, OR ANY AGENCY OF THE FEDERAL GOVERNMENT.

Approved R BERGIN

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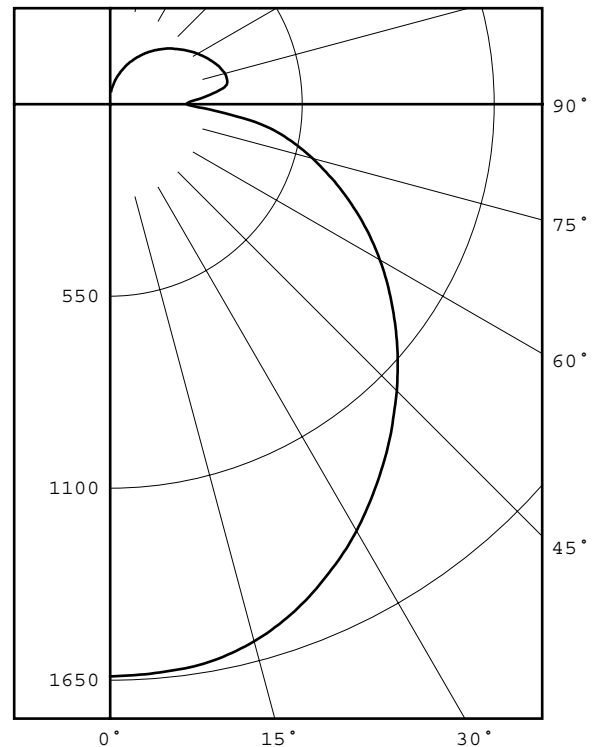
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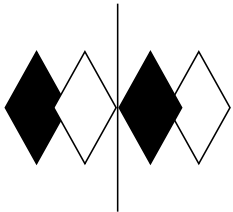
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DEG	CANDELA	LUMENS
0	1639	
5	1634	156
15	1593	449
25	1482	684
35	1330	833
45	1161	897
55	983	880
65	797	789
75	600	633
85	347	383
90	220	
95	281	305
105	340	357
115	309	306
125	268	241
135	225	174
145	179	113
155	132	62
165	84	24
175	42	5
180	36	

ZONAL ZONE	LUMEN LUMENS	SUMMARY %FIXT
0- 30	1289	17.7
0- 40	2122	29.1
0- 60	3899	53.5
0- 90	5705	78.2
90-120	969	13.3
90-130	1209	16.6
90-150	1497	20.5
90-180	1587	21.8
0-180	7292	100.0

EFFICACY = 115.0 lm/W
 CIE TYPE - SEMI-DIRECT
 SPACING CRITERION: 1.28
 BEAM ANGLE (50%) : 127.7 DEGREES
 FIELD ANGLE (10%) : 296.3 DEGREES





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LUMINANCE DATA IN CANDELA/SQ M
 ANGLE AVERAGE
 IN DEG

45	2013.
55	1805.
65	1613.
75	1409.
85	1245.



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CANDELA DISTRIBUTION

0.0	1639
5.0	1634
10.0	1623
15.0	1593
20.0	1545
25.0	1482
30.0	1411
35.0	1330
40.0	1247
45.0	1161
50.0	1073
55.0	983
60.0	892
65.0	797
70.0	699
75.0	600
80.0	497
85.0	347
90.0	220
95.0	281
100.0	340
105.0	340
110.0	327
115.0	309
120.0	289
125.0	268
130.0	246
135.0	225
140.0	202
145.0	179
150.0	155
155.0	132
160.0	107
165.0	84
170.0	61
175.0	42
180.0	36



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5-DEGREE
ZONAL LUMEN SUMMARY

0- 5	39
5- 10	117
10- 15	191
15- 20	259
20- 25	317
25- 30	366
30- 35	404
35- 40	430
40- 45	445
45- 50	451
50- 55	447
55- 60	433
60- 65	411
65- 70	379
70- 75	339
75- 80	294
80- 85	232
85- 90	151
90- 95	134
95-100	171
100-105	182
105-110	174
110-115	161
115-120	145
120-125	129
125-130	112
130-135	95
135-140	79
140-145	64
145-150	49
150-155	36
155-160	25
160-165	16
165-170	9
170-175	4
175-180	1

10-DEGREE
ZONAL LUMEN SUMMARY

0- 10	156
0- 20	605
0- 30	1289
0- 40	2122
0- 50	3019
0- 60	3899
0- 70	4688
0- 80	5321
0- 90	5705
0-100	6010
0-110	6367
0-120	6673
0-130	6914
0-140	7088
0-150	7201
0-160	7263
0-170	7287
0-180	7292



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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	114	114	114	114	114	109	109	109	109	99	99	99	90	90	90	82	82	82	78
1	102	96	91	87	87	97	92	87	83	83	80	77	76	73	70	69	67	65	61
2	92	83	75	69	69	87	79	72	66	72	66	61	65	61	57	59	56	52	49
3	83	72	63	56	56	79	69	61	54	62	56	51	57	51	47	51	47	44	40
4	76	63	54	47	47	72	60	52	45	55	48	43	50	44	40	46	41	37	34
5	69	56	47	40	40	66	54	45	39	49	42	36	45	39	34	41	36	32	29
6	64	50	41	35	35	60	48	40	34	44	37	32	40	34	30	37	32	28	25
7	59	45	36	30	30	56	43	35	29	40	33	28	37	31	26	34	28	24	22
8	55	41	33	27	27	52	40	32	26	36	30	25	34	28	23	31	26	22	20
9	51	38	29	24	24	49	36	29	23	33	27	22	31	25	21	28	23	20	18
10	48	35	27	21	21	45	33	26	21	31	24	20	29	23	19	26	21	18	16

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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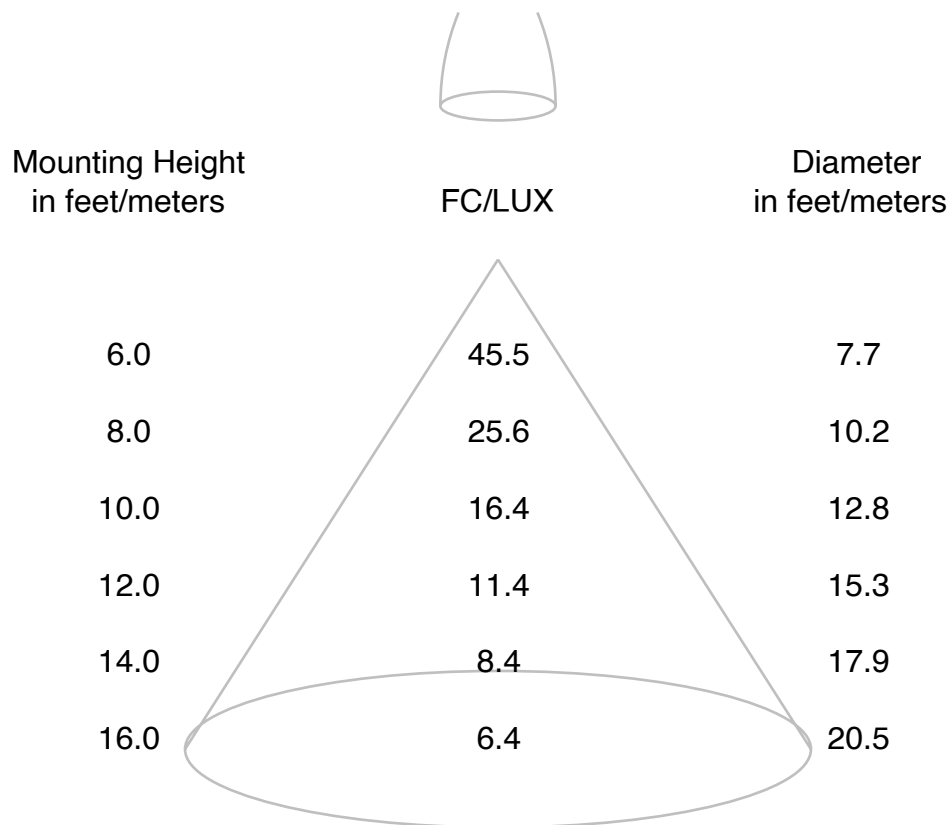
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CONE OF LIGHT DIAGRAM

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



If distances are feet, results are footcandles.
If distances are meters, results are lux.