

REPORT NUMBER: ITL94508-GONIOPHOTOMETRY

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ISSUE DATE: 02/03/21

PREPARED FOR: LUMOS LIGHTING

ADDRESS: 2385 S. DELAWARE STREET
DENVER, CO 80223

CATALOG NUMBER: SPH-18-3500

LUMINAIRE: FABRICATED DIFFUSE METAL HOUSING, EXTRUDED BLACK FINISHED FINNED METAL HEAT SINK, ONE CIRCUIT BOARD WITH ONE LED, MOLDED WHITE PLASTIC LED SURROUND, MOLDED CLEAR PRISMATIC PLASTIC INTERIOR LENS, MOLDED TRANSLUCENT WHITE PLASTIC GLOBE.

LAMP: ONE WHITE MULTI-CHIP LIGHT EMITTING DIODES (LEDS), VERTICAL BASE-UP POSITION.

MOUNTING: SUSPENDED

LED DRIVER: AC ELECTRONICS AC-50CD1.4APC7, DRIVER HAS MULTIPLE LEADS, ONLY LINE INPUT AND LED OUTPUT LEADS CONNECTED FOR THIS TEST. CLIENT STATES DRIVER PROGRAMMED FOR 700mA OUTPUT.

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

INPUT ELECTRICAL: 120.0 VOLTS, 28.0 WATTS, 0.234 AMPS

POWER FACTOR: 99.7%, VOLTAGE THD: 0.1%, CURRENT THD: 2.1%

TEST PROCEDURE: IESNA LM-79-19

TEST DISTANCE = 35.0 FEET

AMBIENT: 24.4



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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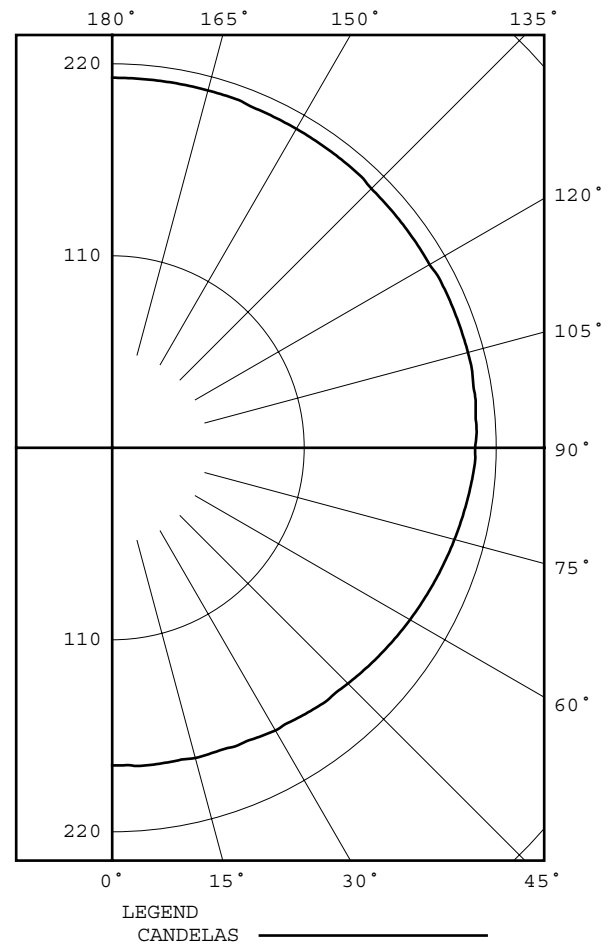
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DEG	CANDELA	LUMENS
0	182	
5	183	17
15	184	52
25	185	86
35	188	118
45	191	148
55	195	175
65	199	198
75	203	215
85	207	226
90	208	
95	209	228
105	211	223
115	211	209
125	210	188
135	210	163
145	211	133
155	211	98
165	212	60
175	212	20
180	212	

ZONAL ZONE	LUMEN LUMENS	SUMMARY %FIXT
0- 30	155	6.1
0- 40	274	10.7
0- 60	597	23.3
0- 90	1235	48.3
90-120	661	25.8
90-130	849	33.2
90-150	1145	44.8
90-180	1323	51.7
0-180	2557	100.0

EFFICACY = 91.3 lm/W
CIE TYPE - GENERAL DIFFUSE
SPACING CRITERION: 1.59





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

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

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CANDELA DISTRIBUTION

0.0	182
5.0	183
10.0	183
15.0	184
20.0	184
25.0	185
30.0	187
35.0	188
40.0	190
45.0	191
50.0	193
55.0	195
60.0	197
65.0	199
70.0	201
75.0	203
80.0	205
85.0	207
90.0	208
95.0	209
100.0	210
105.0	211
110.0	211
115.0	211
120.0	210
125.0	210
130.0	210
135.0	210
140.0	211
145.0	211
150.0	211
155.0	211
160.0	212
165.0	212
170.0	212
175.0	212
180.0	212



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5-DEGREE
ZONAL LUMEN SUMMARY

0- 5	4
5- 10	13
10- 15	22
15- 20	30
20- 25	39
25- 30	47
30- 35	55
35- 40	63
40- 45	70
45- 50	78
50- 55	84
55- 60	91
60- 65	96
65- 70	101
70- 75	106
75- 80	109
80- 85	112
85- 90	114
90- 95	114
95-100	114
100-105	113
105-110	110
110-115	107
115-120	102
120-125	97
125-130	91
130-135	85
135-140	78
140-145	70
145-150	62
150-155	53
155-160	44
160-165	35
165-170	25
170-175	15
175-180	5

10-DEGREE
ZONAL LUMEN SUMMARY

0- 10	17
0- 20	70
0- 30	155
0- 40	274
0- 50	422
0- 60	597
0- 70	794
0- 80	1009
0- 90	1235
0-100	1463
0-110	1686
0-120	1895
0-130	2084
0-140	2247
0-150	2379
0-160	2477
0-170	2537
0-180	2557



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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	107	107	107	107	98	98	98	98	82	82	82	68	68	68	55	55	55	48
1	93	87	81	76	85	80	75	70	66	62	59	53	50	48	41	39	37	32
2	83	74	66	59	76	67	60	55	55	50	45	44	40	37	34	31	29	24
3	75	64	55	48	68	58	50	44	48	42	37	38	33	29	29	26	23	18
4	68	55	46	39	62	51	42	36	42	35	30	33	28	24	25	22	19	15
5	62	49	40	33	56	45	36	30	37	30	25	29	24	20	22	19	16	12
6	57	43	34	28	52	40	32	26	33	26	22	26	21	17	20	16	13	10
7	52	39	30	24	48	36	28	22	29	23	19	24	19	15	18	14	11	9
8	49	35	27	21	44	32	25	19	27	21	16	22	17	13	17	13	10	8
9	45	32	24	18	41	29	22	17	24	18	14	20	15	12	15	12	9	7
10	42	29	21	16	38	27	20	15	22	17	13	18	14	10	14	11	8	6

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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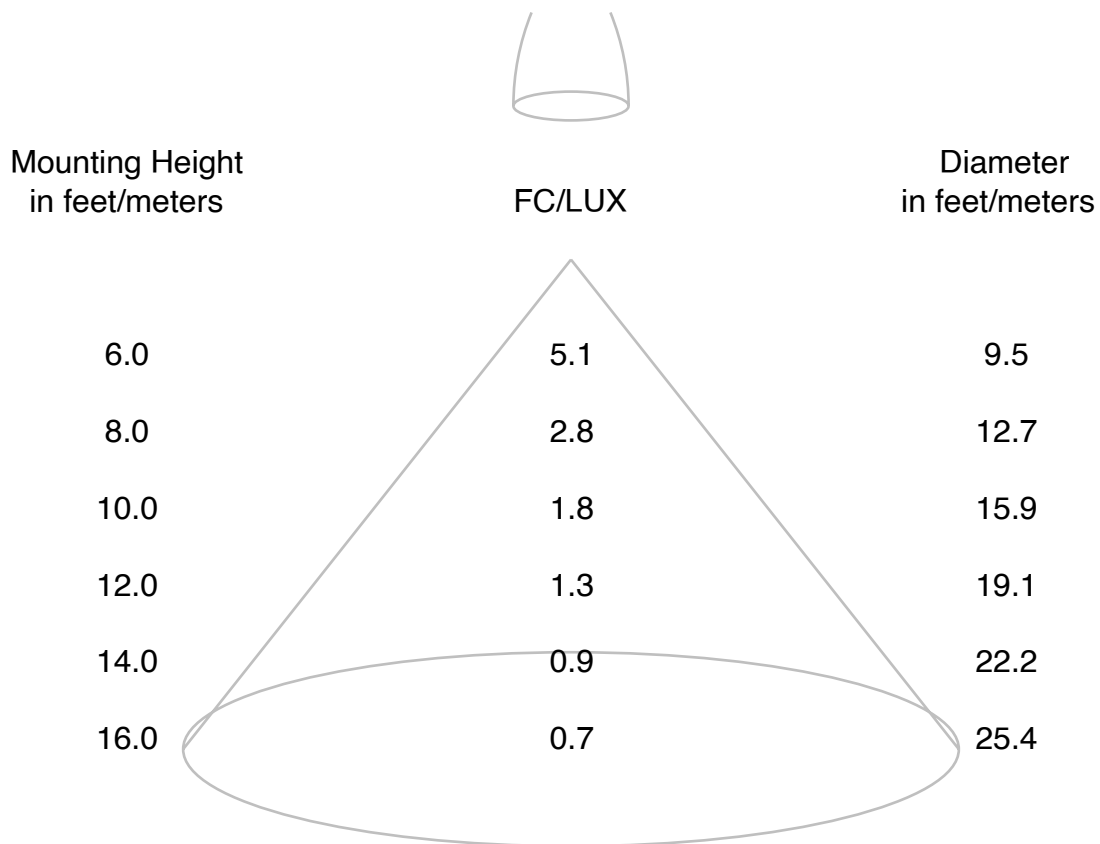
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CONE OF LIGHT DIAGRAM

(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.