

REPORT NUMBER: ITL94434-GONIOPHOTOMETRY

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ISSUE DATE: 01/15/21

PREPARED FOR: LUMOS LIGHTING

ADDRESS: 2385 S. DELAWARE STREET
DENVER, CO 80223

CATALOG NUMBER: SFC-6-3500

LUMINAIRE: FABRICATED SEMI-DIFFUSE METAL TOP HOUSING WITH WHITE PAINTED EXTERIOR, ONE CIRCUIT BOARD WITH ONE LED, MOLDED WHITE PLASTIC CIRCUIT BOARD MOUNTING RING, MOLDED WHITE PLASTIC OPTIC MOUNTING RING, MOLDED CLEAR PRISMATIC PLASTIC OPTIC, TRANSLUCENT WHITE CYLINDRICAL PLASTIC DIFFUSER WITH TRANSLUCENT WHITE PLASTIC BOTTOM.

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

MOUNTING: PENDANT

LED DRIVER: AC ELECTRONICS AC10CD250AT2K, DRIVER HAS MULTIPLE LEADS, ONLY LINE INPUT AND LED OUTPUT LEADS CONNECTED FOR THIS TEST, DRIVER OUTPUT SETTING SET FOR 250mA OUTPUT.

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

INPUT ELECTRICAL: 120.0 VOLTS, 9.50 WATTS, 0.0796 AMPS

POWER FACTOR: 99.5%, VOLTAGE THD: 0.2%, CURRENT THD: 9.1%

TEST PROCEDURE: IESNA LM-79-19

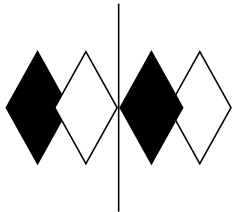
TEST DISTANCE = 35.0 FEET

AMBIENT: 25.0



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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THE LIGHT CENTER OF THE INDUSTRY SINCE 1955

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



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

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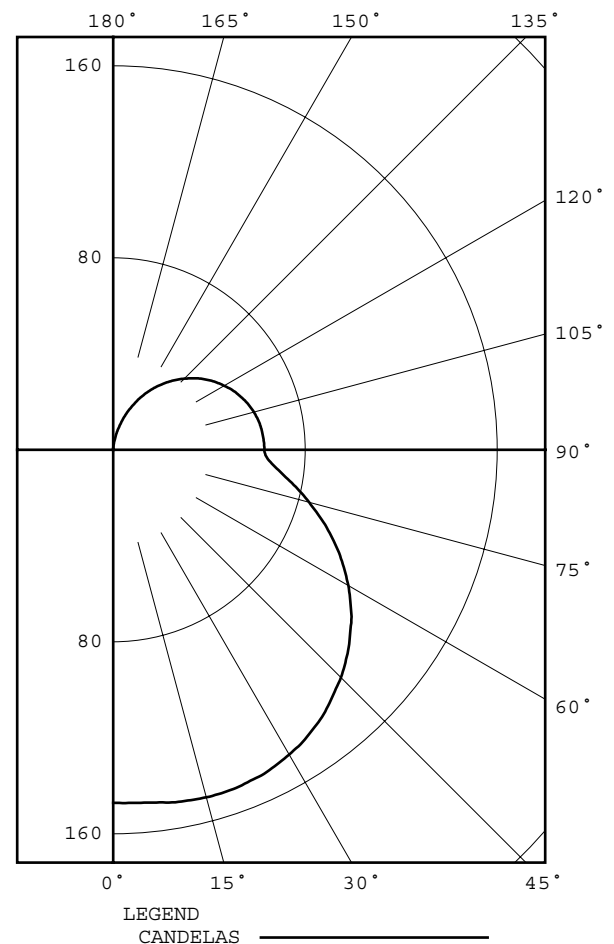
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DEG	CANDELA	LUMENS
0	147	
5	148	14
15	150	42
25	149	69
35	144	90
45	134	104
55	121	108
65	104	103
75	85	89
85	66	73
90	63	
95	63	68
105	61	64
115	56	56
125	50	45
135	42	33
145	32	20
155	22	10
165	11	3
175	2	0
180	0	

ZONAL LUMEN ZONE	SUMMARY LUMENS	%FIXT
0- 30	125	12.6
0- 40	215	21.7
0- 60	427	43.0
0- 90	693	69.8
90-120	188	19.0
90-130	233	23.5
90-150	286	28.8
90-180	300	30.2
0-180	993	100.0

EFFICACY = 104.5 lm/W
CIE TYPE - SEMI-DIRECT
SPACING CRITERION: 1.49
BEAM ANGLE (50%) : 159.7 DEGREES
FIELD ANGLE (10%) : 321.9 DEGREES





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LUMINOUS DIAMETER: 4.000
HEIGHT OF SIDE : 5.125

LUMINANCE DATA IN CANDELA/SQ M
ANGLE AVERAGE
IN DEG

45	8896.
55	7827.
65	6767.
75	5681.
85	4783.



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CANDELA DISTRIBUTION

0.0	147
5.0	148
10.0	149
15.0	150
20.0	150
25.0	149
30.0	147
35.0	144
40.0	139
45.0	134
50.0	128
55.0	121
60.0	113
65.0	104
70.0	95
75.0	85
80.0	75
85.0	66
90.0	63
95.0	63
100.0	62
105.0	61
110.0	59
115.0	56
120.0	53
125.0	50
130.0	46
135.0	42
140.0	37
145.0	32
150.0	27
155.0	22
160.0	16
165.0	11
170.0	6
175.0	2
180.0	0



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5-DEGREE
ZONAL LUMEN SUMMARY

0- 5	4
5- 10	11
10- 15	18
15- 20	25
20- 25	31
25- 30	37
30- 35	43
35- 40	47
40- 45	51
45- 50	53
50- 55	54
55- 60	54
60- 65	53
65- 70	50
70- 75	47
75- 80	43
80- 85	38
85- 90	35
90- 95	34
95-100	34
100-105	33
105-110	31
110-115	29
115-120	27
120-125	24
125-130	21
130-135	18
135-140	15
140-145	12
145-150	9
150-155	6
155-160	4
160-165	2
165-170	1
170-175	0
175-180	0

10-DEGREE
ZONAL LUMEN SUMMARY

0- 10	14
0- 20	57
0- 30	125
0- 40	215
0- 50	319
0- 60	427
0- 70	530
0- 80	620
0- 90	693
0-100	762
0-110	826
0-120	882
0-130	926
0-140	959
0-150	979
0-160	990
0-170	993
0-180	993



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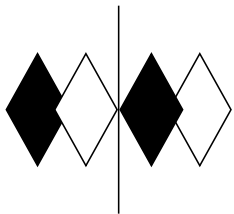
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	112	112	112	112	106	106	106	106	94	94	94	84	84	84	74	74	74	70
1	99	93	87	83	93	87	83	78	78	74	70	69	66	63	60	58	56	52
2	88	79	71	65	83	74	67	61	66	60	55	58	54	50	51	47	44	40
3	80	68	59	52	75	64	56	50	57	50	45	50	45	41	44	40	36	33
4	73	60	50	43	68	56	48	41	50	43	37	44	38	34	39	34	30	27
5	66	53	43	36	62	50	41	35	44	37	32	39	33	29	34	30	26	23
6	61	47	38	31	57	45	36	30	40	33	27	35	29	25	31	26	22	19
7	56	42	33	27	53	40	32	26	36	29	24	32	26	22	28	23	19	17
8	52	38	30	24	49	36	28	23	33	26	21	29	23	19	26	21	17	15
9	49	35	27	21	46	33	25	20	30	23	19	27	21	17	24	19	15	13
10	45	32	24	19	43	30	23	18	27	21	17	25	19	15	22	17	14	12

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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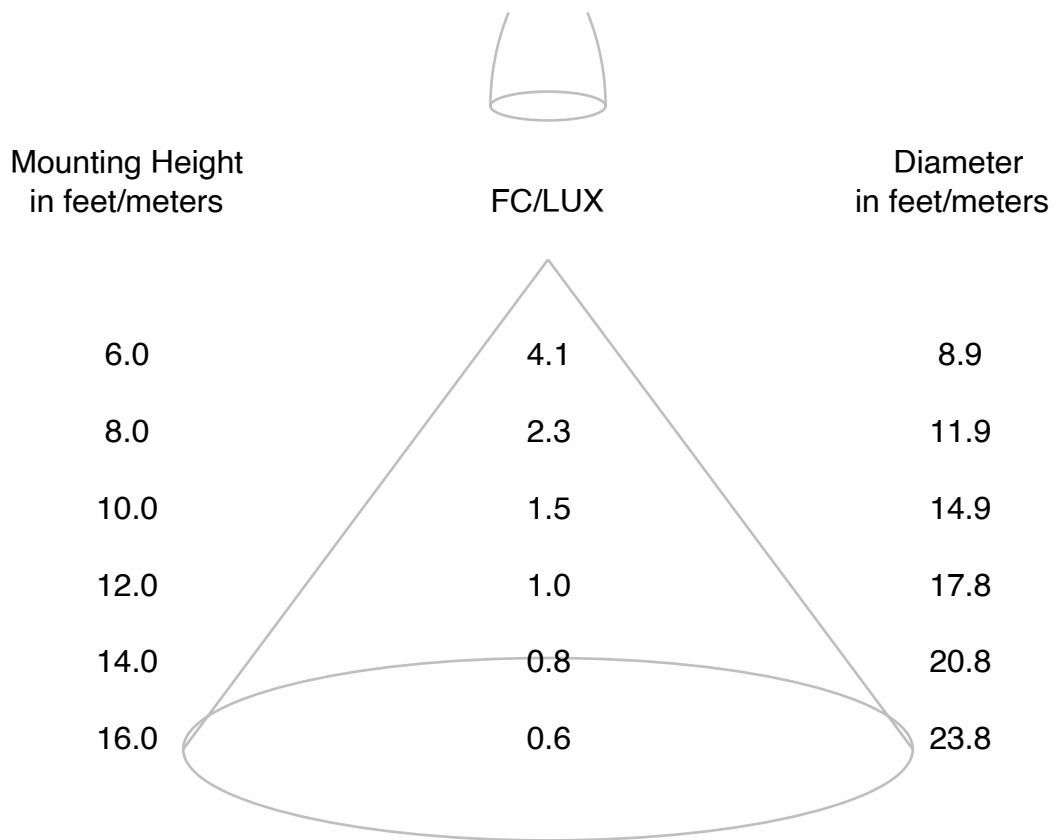
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CONE OF LIGHT DIAGRAM

(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.