

**REPORT NUMBER:** ITL94435-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-12-3500

**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, 9.53 WATTS, 0.0798 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: 24.8



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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DEG	CANDELA	LUMENS
0	64	
5	65	6
15	75	21
25	85	39
35	93	59
45	99	77
55	102	91
65	102	101
75	99	104
85	94	103
90	94	
95	93	102
105	91	96
115	84	84
125	75	67
135	63	49
145	49	31
155	33	15
165	16	5
175	2	0
180	0	

ZONAL LUMEN ZONE	SUMMARY LUMENS	%FIXT
0- 30	67	6.4
0- 40	126	12.0
0- 60	294	28.0
0- 90	601	57.3
90-120	281	26.8
90-130	348	33.2
90-150	428	40.8
90-180	449	42.7
0-180	1050	100.0

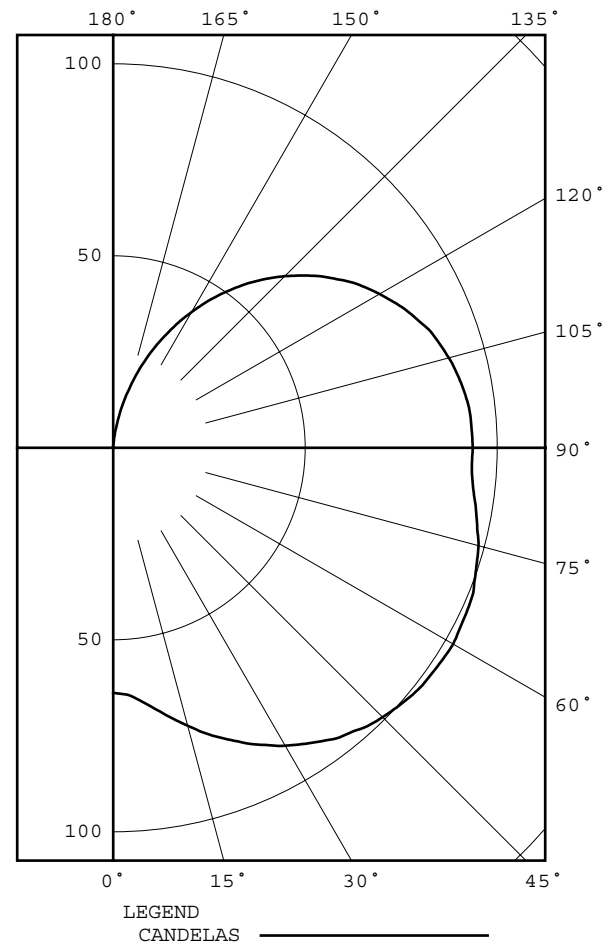
EFFICACY = 110.2 lm/W

CIE TYPE - GENERAL DIFFUSE

SPACING CRITERION: 2.14

BEAM ANGLE (50%) : 287.0 DEGREES

FIELD ANGLE (10%) : 337.0 DEGREES





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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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LUMINOUS DIAMETER: 4.000  
HEIGHT OF SIDE : 12.125

LUMINANCE DATA IN CANDELA/SQ M  
ANGLE AVERAGE  
IN DEG

45	3561.
55	3358.
65	3193.
75	3047.
85	2946.



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## CANDELA DISTRIBUTION

0.0	64
5.0	65
10.0	70
15.0	75
20.0	80
25.0	85
30.0	90
35.0	93
40.0	97
45.0	99
50.0	101
55.0	102
60.0	102
65.0	102
70.0	100
75.0	99
80.0	96
85.0	94
90.0	94
95.0	93
100.0	92
105.0	91
110.0	88
115.0	84
120.0	80
125.0	75
130.0	70
135.0	63
140.0	56
145.0	49
150.0	41
155.0	33
160.0	24
165.0	16
170.0	8
175.0	2
180.0	0



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5-DEGREE  
ZONAL LUMEN SUMMARY

0- 5	2
5- 10	5
10- 15	9
15- 20	13
20- 25	17
25- 30	22
30- 35	27
35- 40	32
40- 45	36
45- 50	40
50- 55	44
55- 60	47
60- 65	50
65- 70	51
70- 75	52
75- 80	52
80- 85	52
85- 90	51
90- 95	51
95-100	51
100-105	49
105-110	47
110-115	44
115-120	40
120-125	36
125-130	32
130-135	27
135-140	22
140-145	18
145-150	13
150-155	9
155-160	6
160-165	3
165-170	1
170-175	0
175-180	0

10-DEGREE  
ZONAL LUMEN SUMMARY

0- 10	6
0- 20	28
0- 30	67
0- 40	126
0- 50	203
0- 60	294
0- 70	395
0- 80	499
0- 90	601
0-100	703
0-110	799
0-120	882
0-130	950
0-140	999
0-150	1030
0-160	1045
0-170	1050
0-180	1050



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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	109	109	109	109	101	101	101	101	87	87	87	75	75	75	63	63	63	57
1	94	88	82	77	87	81	76	72	69	65	62	58	55	52	48	45	43	38
2	84	74	66	59	77	69	61	55	58	52	47	48	44	40	39	36	33	28
3	76	64	54	47	69	59	50	44	50	43	38	41	36	32	33	29	26	22
4	68	55	46	38	63	51	42	36	43	36	31	36	30	26	29	24	21	17
5	62	49	39	32	57	45	36	30	38	31	26	31	26	21	25	21	17	14
6	57	43	34	27	52	40	31	25	34	27	22	28	22	18	23	18	15	12
7	53	39	30	23	48	36	28	22	30	24	19	25	20	16	20	16	13	10
8	49	35	26	20	45	32	24	19	27	21	16	23	18	14	19	14	11	9
9	45	32	23	18	42	29	22	16	25	19	14	21	16	12	17	13	10	7
10	42	29	21	16	39	27	19	15	23	17	13	19	14	11	16	12	9	7

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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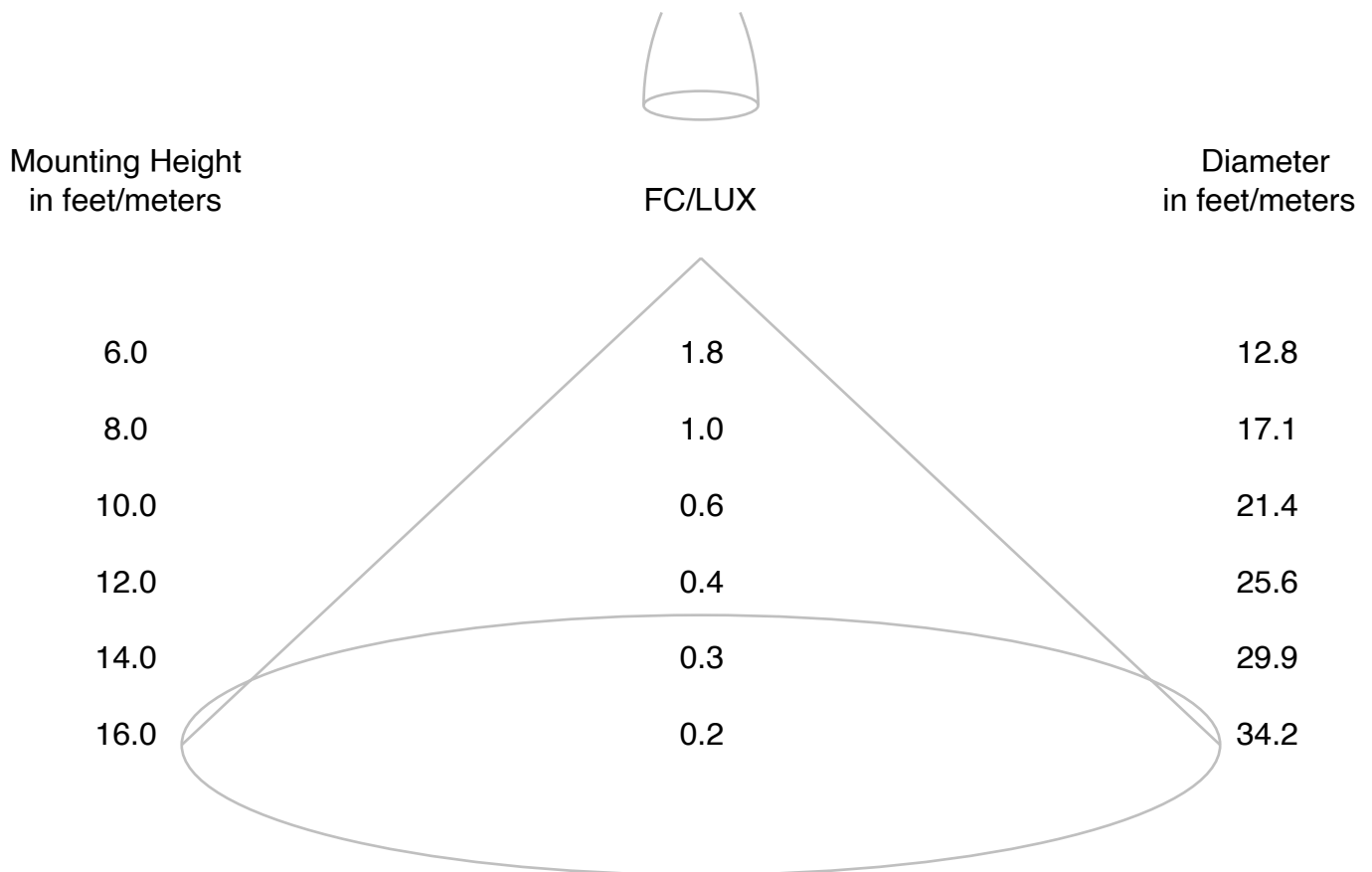
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## CONE OF LIGHT DIAGRAM

(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.