

REPORT NUMBER: ITL93881-GONIOPHOTOMETRY

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ISSUE DATE: 09/10/20

PREPARED FOR: LITELAB CORPORATION

ADDRESS: 251 ELM STREET

BUFFALO, NY 14203

CATALOG NUMBER: C83L1600-9TC-A-9830P-25

LUMINAIRE: FABRICATED WHITE PAINTED METAL MOUNTING ARM AND DRIVER HOUSING, CAST WHITE PAINTED METAL HOUSING WITH FINNED HEAT SINK, ONE CIRCUIT BOARD WITH ONE LED, MOLDED WHITE PLASTIC LED SURROUND, MOLDED PLASTIC OPTIC MOUNTING RING, CLEAR MICRO-PRISMATIC PLASTIC OPTIC, OPTIC WITH RECESSED MULTI-FACETED AND SEMI-HEMISPHERICAL TEXTURED TOP CENTER, RECESSED CONVEX MICRO-PRISMATIC BOTTOM CENTER IN MOLDED BLACK PLASTIC FRAME. MOLDED BLACK PLASTIC LOWER BAFFLE.

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

MOUNTING: TRACK

LED DRIVER: LITELAB PROPRIETARY

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

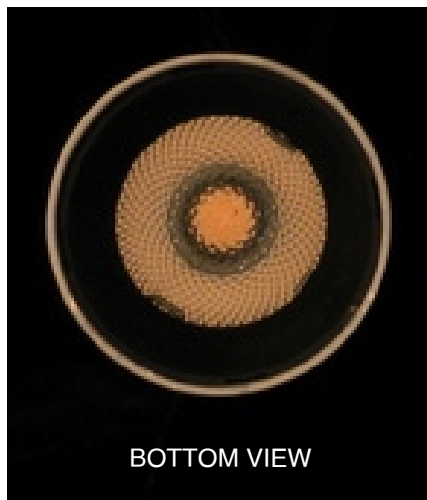
INPUT ELECTRICAL: 120.0 VOLTS, 13.1 WATTS, 0.112 AMPS

POWER FACTOR: 97.5%, VOLTAGE THD: 0.1, CURRENT THD: 6.2

TEST PROCEDURE: IESNA LM-79-19

TEST DISTANCE = 20.0 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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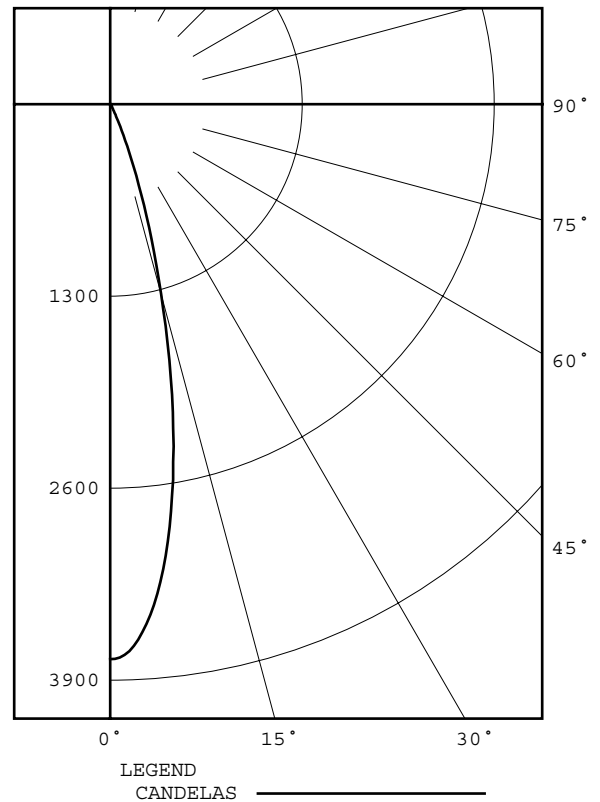
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DEG	CANDELA	LUMENS
0	3757	
5	3403	294
15	1331	364
25	123	77
35	12	9
45	2	2
55	0	0
65	0	0
75	0	0
85	0	0
90	0	

ZONAL LUMEN SUMMARY		
ZONE	LUMENS	%FIXT
0- 30	736	98.6
0- 40	745	99.7
0- 60	747	100.0
0- 90	747	100.0
90-180	0	0.0
0-180	747	100.0

EFFICACY = 57.0 lm/W
CIE TYPE - DIRECT
SPACING CRITERION: 0.42
BEAM ANGLE (50%) : 25.1 DEGREES
FIELD ANGLE (10%) : 42.8 DEGREES
LUMINOUS DIAMETER: 2.250

LUMINANCE DATA IN CANDELA/SQ M	
ANGLE	AVERAGE
IN DEG	
45	1103.
55	0.
65	0.
75	0.
85	0.





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	3757	82.5	0
0.5	3756	85.0	0
1.0	3748	87.5	0
1.5	3730	90.0	0
2.0	3706		
2.5	3670		
3.0	3631		
3.5	3580		
4.0	3528		
4.5	3467		
5.0	3403		
5.5	3329		
6.0	3254		
6.5	3168		
7.0	3082		
7.5	2987		
8.0	2889		
8.5	2788		
9.0	2679		
9.5	2577		
10.0	2458		
10.5	2356		
11.0	2237		
11.5	2129		
12.0	2011		
12.5	1896		
13.0	1779		
13.5	1663		
14.0	1549		
14.5	1438		
15.0	1331		
16.0	1133		
17.0	956		
18.0	796		
19.0	651		
20.0	515		
22.5	266		
25.0	123		
27.5	60		
30.0	32		
32.5	19		
35.0	12		
37.5	8		
40.0	5		
42.5	3		
45.0	2		
47.5	1		
50.0	1		
52.5	1		
55.0	0		
57.5	0		
60.0	0		
62.5	0		
65.0	0		
67.5	0		
70.0	0		
72.5	0		
75.0	0		
77.5	0		
80.0	0		



INDEPENDENT TESTING LABORATORIES, INC.
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Table with 2 columns: ZONAL LUMEN and SUMMARY for 5-DEGREE. Rows include ranges from 0-5 to 85-90 with corresponding lumen values.

Table with 2 columns: ZONAL LUMEN and SUMMARY for 10-DEGREE. Rows include ranges from 0-10 to 0-90 with corresponding lumen values.



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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	119	119	119	119	116	116	116	116	111	111	111	111	106	106	106	102	102	102	100
1	115	113	112	110	113	111	111	101	108	107	106	105	104	103	102	100	100	99	97
2	112	108	106	103	110	107	104	102	102	104	102	100	101	99	98	98	97	96	95
3	109	104	101	98	107	103	100	98	98	101	98	96	98	96	95	96	95	93	92
4	106	101	97	94	104	100	96	94	94	98	95	93	96	94	92	94	92	91	90
5	103	97	94	91	102	97	93	90	90	95	92	90	94	91	89	92	90	88	87
6	100	95	91	88	99	94	90	88	88	93	89	87	91	89	87	90	88	86	85
7	98	92	88	85	97	91	88	85	85	90	87	85	89	86	84	88	86	84	83
8	95	89	86	83	95	89	85	83	83	88	85	83	87	84	82	86	84	82	81
9	93	87	83	81	92	87	83	81	81	86	83	81	85	82	80	85	82	80	79
10	91	85	81	79	90	85	81	79	79	84	81	79	83	81	78	83	80	78	77

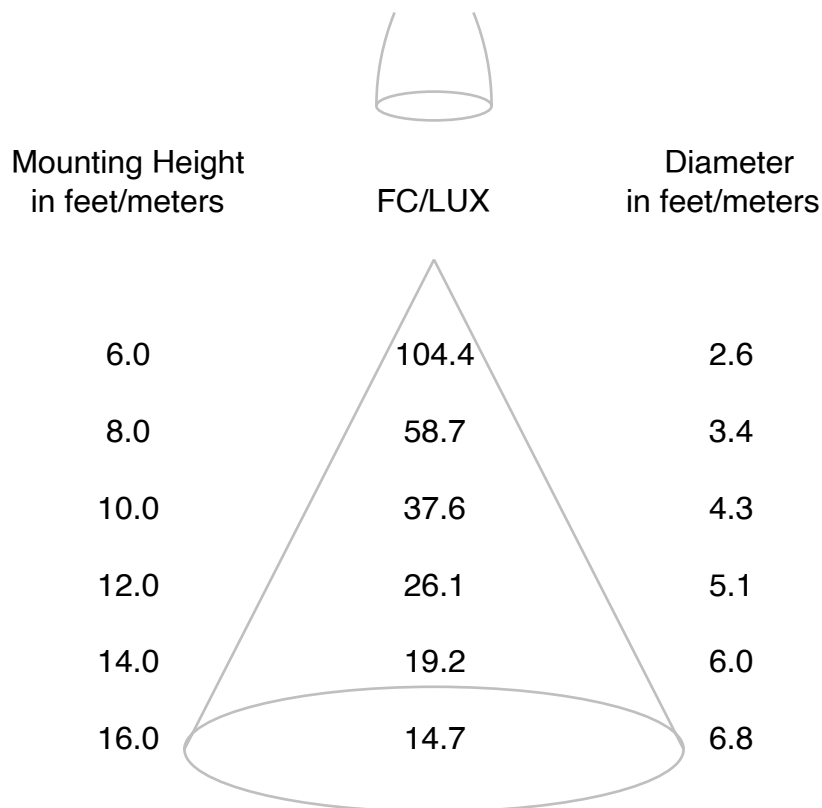
ALL CANDELA, LUMENS, LUMINANCE, AND VCP VALUES IN THIS REPORT ARE BASED ON ABSOLUTE PHOTOMETRY. THE COEFFICIENT OF UTILIZATION VALUES ARE BASED ON THE TOTAL ABSOLUTE LUMEN OUTPUT OF THIS TEST SAMPLE.

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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.