

REPORT NUMBER: ITL93877-GONIOPHOTOMETRY

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ISSUE DATE: 09/10/20

PREPARED FOR: LITELAB CORPORATION

ADDRESS: 251 ELM STREET

BUFFALO, NY 14203

CATALOG NUMBER: C83L1400-9TC-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.

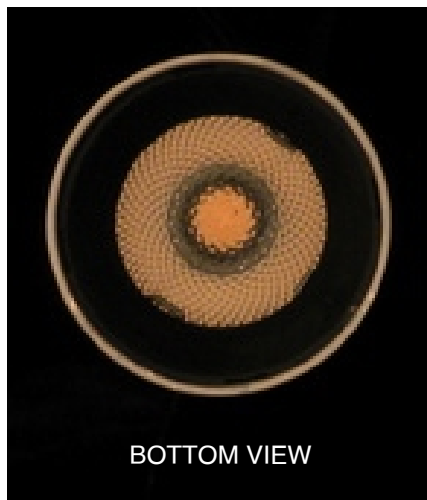
INPUT ELECTRICAL: 120.0 VOLTS, 14.3 WATTS, 0.122 AMPS

POWER FACTOR: 97.7%, VOLTAGE THD: 0.1, CURRENT THD: 12.6

TEST PROCEDURE: IESNA LM-79-19

TEST DISTANCE = 20.0 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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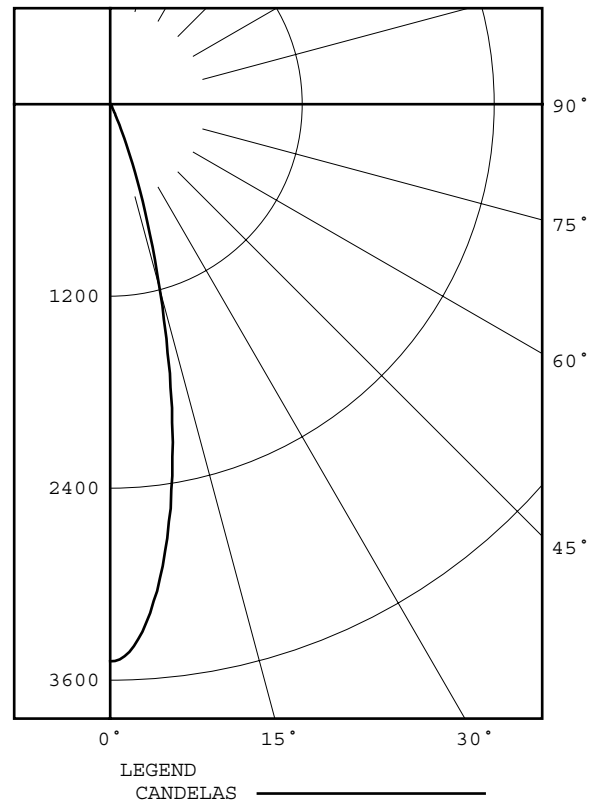
DEG	CANDELA	LUMENS
0	3481	
5	3117	270
15	1189	327
25	104	67
35	10	7
45	1	1
55	0	0
65	0	0
75	0	0
85	0	0
90	0	

ZONAL LUMEN SUMMARY		
ZONE	LUMENS	%FIXT
0- 30	664	98.7
0- 40	671	99.8
0- 60	673	100.0
0- 90	673	100.0
90-180	0	0.0
0-180	673	100.0

EFFICACY = 47.1 lm/W
CIE TYPE - DIRECT
SPACING CRITERION: 0.41
BEAM ANGLE (50%) : 24.8 DEGREES
FIELD ANGLE (10%) : 42.4 DEGREES
LUMINOUS DIAMETER: 2.250

LUMINANCE DATA IN CANDELA/SQ M

ANGLE	AVERAGE
IN DEG	
45	551.
55	0.
65	0.
75	0.
85	0.





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CANDELA DISTRIBUTION

0.0	3481	82.5	0
0.5	3480	85.0	0
1.0	3470	87.5	0
1.5	3452	90.0	0
2.0	3425		
2.5	3390		
3.0	3348		
3.5	3302		
4.0	3244		
4.5	3190		
5.0	3117		
5.5	3057		
6.0	2974		
6.5	2905		
7.0	2812		
7.5	2737		
8.0	2634		
8.5	2554		
9.0	2442		
9.5	2355		
10.0	2237		
10.5	2149		
11.0	2028		
11.5	1937		
12.0	1810		
12.5	1723		
13.0	1596		
13.5	1507		
14.0	1385		
14.5	1303		
15.0	1189		
16.0	1013		
17.0	852		
18.0	708		
19.0	573		
20.0	452		
22.5	231		
25.0	104		
27.5	50		
30.0	27		
32.5	16		
35.0	10		
37.5	6		
40.0	4		
42.5	2		
45.0	1		
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		



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5-DEGREE
ZONAL LUMEN SUMMARY

0- 5	79
5- 10	191
10- 15	199
15- 20	128
20- 25	52
25- 30	14
30- 35	5
35- 40	2
40- 45	1
45- 50	0
50- 55	0
55- 60	0
60- 65	0
65- 70	0
70- 75	0
75- 80	0
80- 85	0
85- 90	0

10-DEGREE
ZONAL LUMEN SUMMARY

0- 10	270
0- 20	597
0- 30	664
0- 40	671
0- 50	672
0- 60	673
0- 70	673
0- 80	673
0- 90	673



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

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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	109	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	98	94	91	102	97	93	91	91	95	92	90	94	91	89	92	90	89	87
6	100	95	91	88	99	94	90	88	88	93	90	87	92	89	87	90	88	86	85
7	98	92	88	86	97	92	88	85	85	90	87	85	89	87	85	89	86	84	83
8	96	90	86	83	95	89	86	83	83	88	85	83	87	85	83	87	84	82	81
9	93	87	84	81	93	87	84	81	81	86	83	81	86	83	81	85	82	80	80
10	91	85	82	79	91	85	82	79	79	84	81	79	84	81	79	83	81	79	78

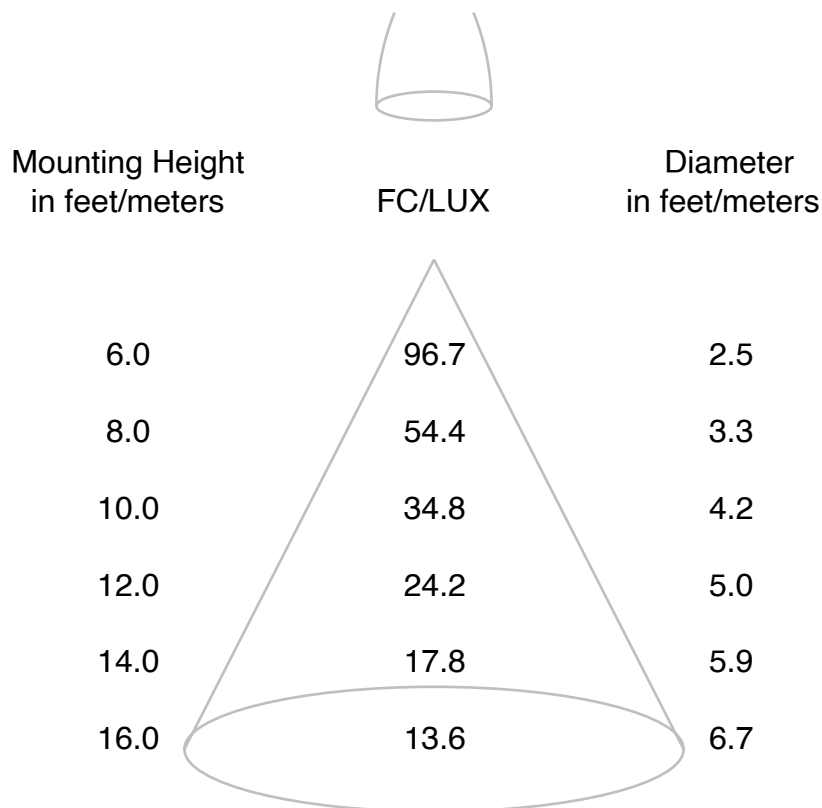
ALL CANDELA, LUMENS, LUMINANCE, AND VCP VALUES IN THIS REPORT ARE BASED ON ABSOLUTE PHOTOMETRY. THE COEFFICIENT OF UTILIZATION VALUES ARE BASED ON THE TOTAL ABSOLUTE LUMEN OUTPUT OF THIS TEST SAMPLE.

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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.