

REPORT NUMBER: ITL93875-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-13

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 PRISMATIC PLASTIC OPTIC WITH TEXTURED PERIMETER, OPTIC WITH RECESSED MULTI-FACETED AND SEMI-HEMISPHERICAL MICRO-PRISMATIC TOP CENTER, RECESSED CONVEX BOTTOM CENTER IN MOLDED GRAY 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.

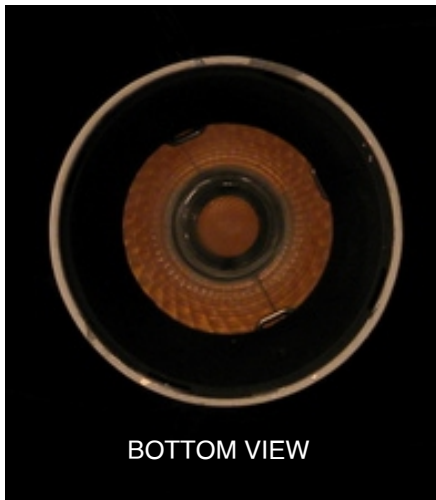
INPUT ELECTRICAL: 120.0 VOLTS, 14.3 WATTS, 0.122 AMPS

POWER FACTOR: 97.7%, VOLTAGE THD: 0.1, CURRENT THD: 13.2

TEST PROCEDURE: IESNA LM-79-19

TEST DISTANCE = 20.0 FEET

AMBIENT: 24.9



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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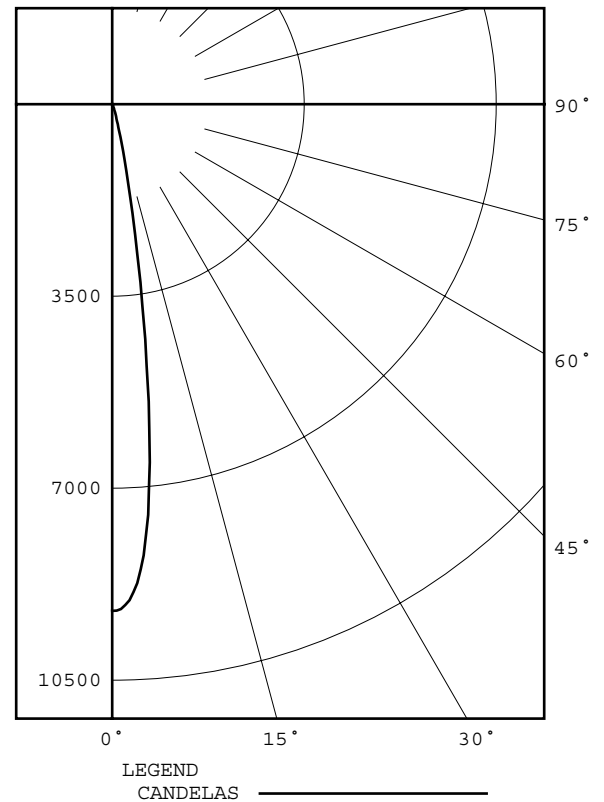
DEG	CANDELA	LUMENS
0	9237	
5	7513	531
15	438	169
25	34	21
35	10	6
45	1	1
55	0	0
65	0	0
75	0	0
85	0	0
90	0	

ZONAL LUMEN SUMMARY		
ZONE	LUMENS	%FIXT
0- 30	721	99.0
0- 40	726	99.8
0- 60	728	100.0
0- 90	728	100.0
90-180	0	0.0
0-180	728	100.0

EFFICACY = 50.9 lm/W
CIE TYPE - DIRECT
SPACING CRITERION: 0.25
BEAM ANGLE (50%) : 15.4 DEGREES
FIELD ANGLE (10%) : 25.7 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.





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

Table with 4 columns: Wavelength (nm), Intensity (cd), and two other columns. Values range from 0.0 to 80.0 nm, with intensity values decreasing from 9237 to 0.



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5-DEGREE
ZONAL LUMEN SUMMARY

0- 5	202
5- 10	329
10- 15	131
15- 20	39
20- 25	15
25- 30	6
30- 35	4
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	531
0- 20	700
0- 30	721
0- 40	726
0- 50	728
0- 60	728
0- 70	728
0- 80	728
0- 90	728



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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	106	106	106	102	102	102	100
1	116	114	113	112	114	112	111	110	108	107	106	105	104	103	101	101	100	99
2	113	111	108	106	112	109	107	105	106	104	103	103	102	101	101	100	99	98
3	111	108	105	103	110	106	104	102	104	102	101	102	100	99	100	99	98	96
4	109	105	102	100	108	104	102	100	102	100	99	101	99	97	99	98	96	95
5	107	103	100	98	106	102	100	98	101	99	97	99	98	96	98	97	95	94
6	106	101	98	96	105	101	98	96	99	97	95	98	96	95	97	96	94	93
7	104	100	97	95	103	99	96	95	98	96	94	97	95	94	96	95	93	93
8	103	98	95	94	102	98	95	93	97	95	93	96	94	93	96	94	92	92
9	101	97	94	92	101	97	94	92	96	94	92	95	93	92	95	93	92	91
10	100	96	93	91	100	96	93	91	95	93	91	94	92	91	94	92	91	90

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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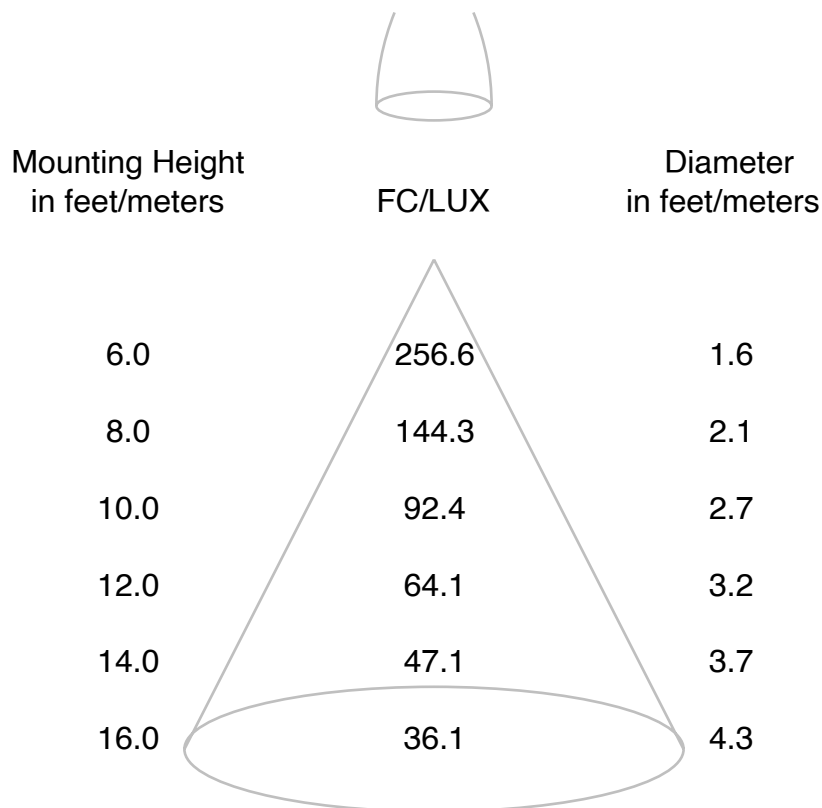
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CONE OF LIGHT DIAGRAM

(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.