

REPORT NUMBER: ITL93872-GONIOPHOTOMETRY

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ISSUE DATE: 09/10/20

PREPARED FOR: LITELAB CORPORATION

ADDRESS: 251 ELM STREET

BUFFALO, NY 14203

CATALOG NUMBER: C85L700-(FITTER)-(VOLTAGE)-9230-(FINISH)-5

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, FABRICATED DIFFUSE METAL OPTIC MOUNTING RING, CLEAR CONICAL PLASTIC OPTIC WITH RECESSED FLAT PRISMATIC TOP CENTER AND RECESSED CONICAL BOTTOM, FROSTED PLASTIC LENS BELOW OPTIC, LENS AND OPTIC IN A MOLDED BLACK PLASTIC FRAME, BLACK PLASTIC LOWER BAFFLE.

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

MOUNTING: TRACK

LED DRIVER: LITELAB PROPRIETARY, POTENTIOMETER SET FOR HIGHEST OUTPUT SETTING.

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

INPUT ELECTRICAL: 120.0 VOLTS, 10.2 WATTS, 0.0884 AMPS

POWER FACTOR: 96.2%, VOLTAGE THD: 0.1, CURRENT THD: 4.8

TEST PROCEDURE: IESNA LM-79-19

TEST DISTANCE = 20.0 FEET

AMBIENT: 25.5



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Approved R BERGIN

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DEG	CANDELA	LUMENS
0	25481	
5	4154	355
15	152	44
25	26	14
35	3	2
45	0	0
55	0	0
65	0	0
75	0	0
85	0	0
90	0	0

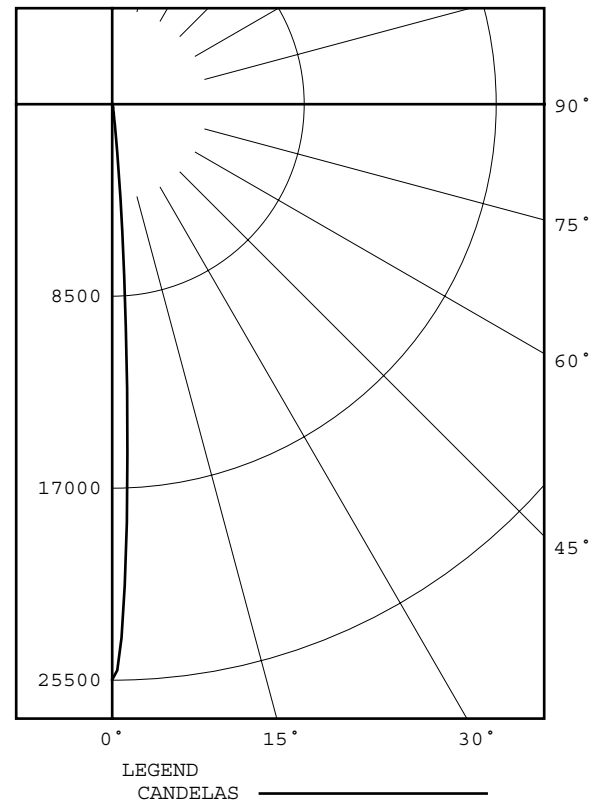
ZONAL LUMEN SUMMARY

ZONE	LUMENS	%FIXT
0- 30	414	99.5
0- 40	415	99.9
0- 60	416	100.0
0- 90	416	100.0
90-180	0	0.0
0-180	416	100.0

EFFICACY = 40.8 lm/W
 CIE TYPE - DIRECT
 SPACING CRITERION: 0.10
 BEAM ANGLE (50%) : 6.0 DEGREES
 FIELD ANGLE (10%) : 11.5 DEGREES
 LUMINOUS DIAMETER: 2.250

LUMINANCE DATA IN CANDELA/SQ M
ANGLE AVERAGE
IN DEG

45	0.
55	0.
65	0.
75	0.
85	0.





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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 3 columns: Angle (0.0 to 80.0), Candela values, and a third column with zeros.



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5-DEGREE
ZONAL LUMEN SUMMARY

0- 5	273
5- 10	82
10- 15	26
15- 20	18
20- 25	11
25- 30	4
30- 35	1
35- 40	0
40- 45	0
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	355
0- 20	399
0- 30	414
0- 40	415
0- 50	416
0- 60	416
0- 70	416
0- 80	416
0- 90	416



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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	116	115	113	112	114	113	111	110	109	108	107	105	104	104	102	101	101	101	99
2	114	111	109	108	112	110	108	106	107	105	104	104	103	102	101	101	101	100	99
3	112	109	106	104	110	108	105	104	105	103	102	103	102	101	101	100	99	99	98
4	110	107	104	102	109	106	103	102	104	102	100	102	101	99	101	99	98	98	97
5	109	105	102	100	108	104	102	100	103	101	99	101	100	98	100	99	98	98	97
6	107	103	101	99	106	103	100	99	102	100	98	101	99	98	100	98	97	96	96
7	106	102	100	98	105	102	99	98	101	99	97	100	98	97	99	98	96	96	96
8	105	101	99	97	104	101	98	97	100	98	96	99	97	96	99	97	96	95	95
9	104	100	98	96	103	100	98	96	99	97	96	99	97	96	98	97	95	95	95
10	103	99	97	96	103	99	97	95	99	97	95	98	96	95	98	96	95	94	94

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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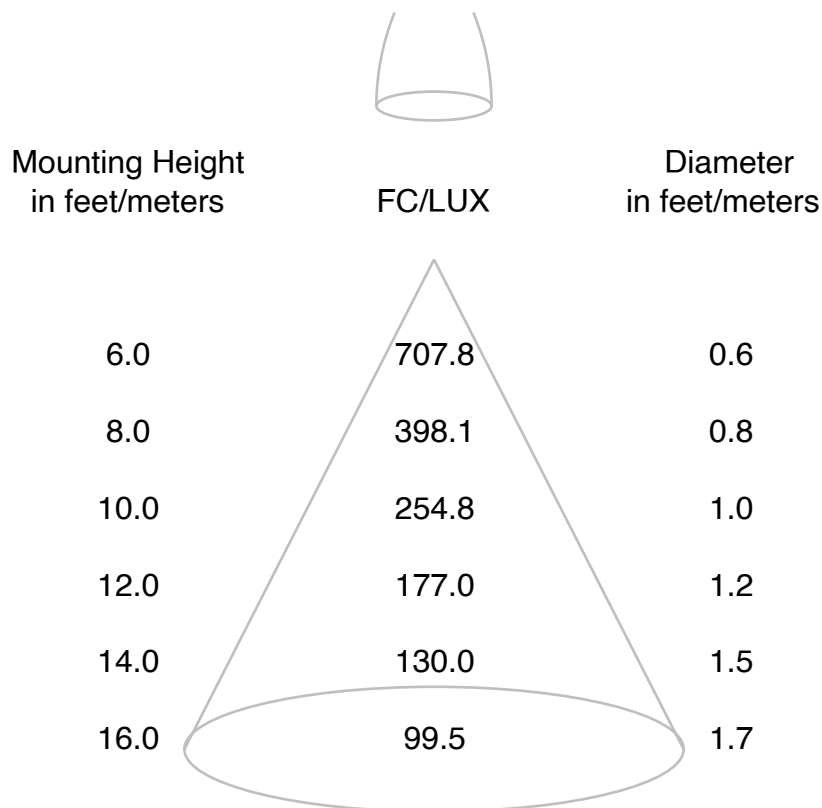
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CONE OF LIGHT DIAGRAM

(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.