

REPORT NUMBER: ITL93879-GONIOPHOTOMETRY

PAGE: 1 OF 6

ISSUE DATE: 09/10/20

PREPARED FOR: LITELAB CORPORATION

ADDRESS: 251 ELM STREET

BUFFALO, NY 14203

CATALOG NUMBER: C83L1600-9TC-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, 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: 25.2



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*

REPORT NUMBER: ITL93879-GONIOPHOTOMETRY
ISSUE DATE: 09/10/20
PREPARED FOR: LITELAB CORPORATION
CATALOG NUMBER: C83L1600-9TC-A-9830P-13

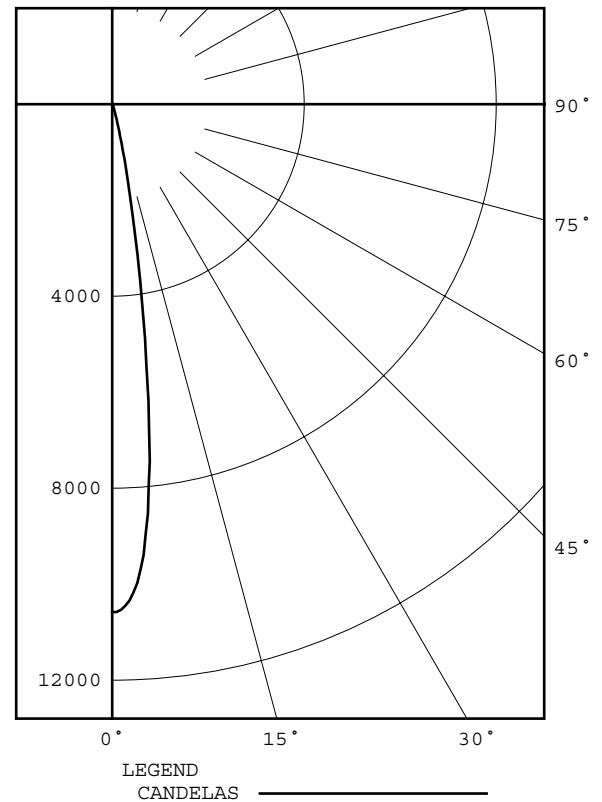
PAGE: 2 OF 6

DEG	CANDELA	LUMENS
0	10585	
5	8558	605
15	474	188
25	33	20
35	10	6
45	1	1
55	0	0
65	0	0
75	0	0
85	0	0
90	0	0

ZONAL LUMEN SUMMARY		
ZONE	LUMENS	%FIXT
0- 30	813	99.1
0- 40	819	99.8
0- 60	820	100.0
0- 90	820	100.0
90-180	0	0.0
0-180	820	100.0

EFFICACY = 62.6 lm/W
CIE TYPE - DIRECT
SPACING CRITERION: 0.25
BEAM ANGLE (50%) : 15.3 DEGREES
FIELD ANGLE (10%) : 25.6 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.





PHONE: (303) 442-1255 • FAX: (970) 535-3114 • E-MAIL: itl@itlboulder.com • WEBSITE: www.itlboulder.com

REPORT NUMBER: ITL93879-GONIOPHOTOMETRY
ISSUE DATE: 09/10/20
PREPARED FOR: LITELAB CORPORATION
CATALOG NUMBER: C83L1600-9TC-A-9830P-13

PAGE: 3 OF 6

CANDELA DISTRIBUTION

0.0	10585	82.5	0
0.5	10576	85.0	0
1.0	10537	87.5	0
1.5	10455	90.0	0
2.0	10345		
2.5	10179		
3.0	9993		
3.5	9698		
4.0	9408		
4.5	8955		
5.0	8558		
5.5	7960		
6.0	7483		
6.5	6760		
7.0	6218		
7.5	5468		
8.0	4915		
8.5	4251		
9.0	3721		
9.5	3184		
10.0	2730		
10.5	2326		
11.0	1958		
11.5	1683		
12.0	1380		
12.5	1194		
13.0	967		
13.5	827		
14.0	673		
14.5	569		
15.0	474		
16.0	336		
17.0	250		
18.0	196		
19.0	156		
20.0	126		
22.5	66		
25.0	33		
27.5	19		
30.0	15		
32.5	12		
35.0	10		
37.5	7		
40.0	4		
42.5	3		
45.0	1		
47.5	1		
50.0	1		
52.5	0		
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		



PHONE: (303) 442-1255 • FAX: (970) 535-3114 • E-MAIL: itl@itlboulder.com • WEBSITE: www.itlboulder.com

REPORT NUMBER: ITL93879-GONIOPHOTOMETRY
ISSUE DATE: 09/10/20
PREPARED FOR: LITELAB CORPORATION
CATALOG NUMBER: C83L1600-9TC-A-9830P-13

PAGE: 4 OF 6

5-DEGREE ZONAL LUMEN SUMMARY		
0- 5		231
5- 10		374
10- 15		148
15- 20		40
20- 25		15
25- 30		5
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		605
0- 20		792
0- 30		813
0- 40		819
0- 50		820
0- 60		820
0- 70		820
0- 80		820
0- 90		820



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

REPORT NUMBER: ITL93879-GONIOPHOTOMETRY
ISSUE DATE: 09/10/20
PREPARED FOR: LITELAB CORPORATION
CATALOG NUMBER: C83L1600-9TC-A-9830P-13

PAGE: 5 OF 6

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

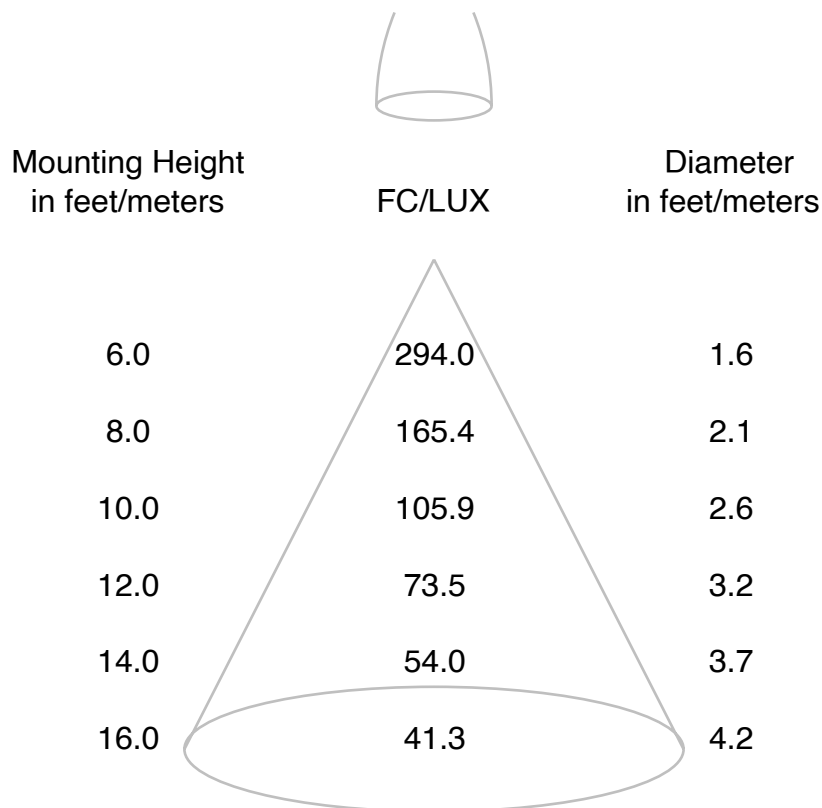
ALL CANDELA, LUMENS, LUMINANCE, AND VCP VALUES IN THIS REPORT ARE BASED ON ABSOLUTE PHOTOMETRY. THE COEFFICIENT OF UTILIZATION VALUES ARE BASED ON THE TOTAL ABSOLUTE LUMEN OUTPUT OF THIS TEST SAMPLE.

REPORT NUMBER: ITL93879-GONIOPHOTOMETRY
ISSUE DATE: 09/10/20
PREPARED FOR: LITELAB CORPORATION
CATALOG NUMBER: C83L1600-9TC-A-9830P-13

PAGE: 6 OF 6

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.