



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



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

REPORT NUMBER: ITL89462

PAGE: 1 OF 6

ISSUE DATE: 07/25/17

PREPARED FOR: FINELITE, INC.

CATALOG NUMBER: HO4-UD-RO-4ft-V-V-835-OPN

ADDRESS: 30500 WHIPPLE ROAD

UNION CITY, CA 94587

**LUMINAIRE:** EXTRUDED WHITE PAINTED METAL HOUSING WITH CAST WHITE PAINTED METAL END CAPS AND 2 DISTINCT OPTICAL COMPARTMENTS, TOP OPTICAL COMPARTMENT CONSISTS OF: 3-PIECE MOLDED TRANSLUCENT WHITE PLASTIC CIRCUIT BOARD/LENS MOUNTING STRIP, 4 CIRCUIT BOARDS EACH WITH 80 LEDS, 2-PIECE EXTRUDED FROSTED HOLOGRAPHIC PLASTIC LENS. BOTTOM OPTICAL COMPARTMENT CONSISTS OF: FORMED METAL REFLECTOR POSITIONING PLATE, FORMED WHITE TEXTURED PLASTIC REFLECTOR, 4 CIRCUIT BOARDS EACH WITH 80 LEDS. OPEN BOTTOM AND ENDS. TOP LENS FROSTED BOTH SIDES.

**LAMPS:** SIX HUNDRED FORTY WHITE LIGHT EMITTING DIODES (LEDs) - 320 VERTICAL BASE-DOWN POSITION, 320 VERTICAL BASE-UP POSITION.

**INPUT ELECTRICAL:** 277.0 VOLTS, 71.9 WATTS, 0.270 AMPS

**MOUNTING:** PENDANT

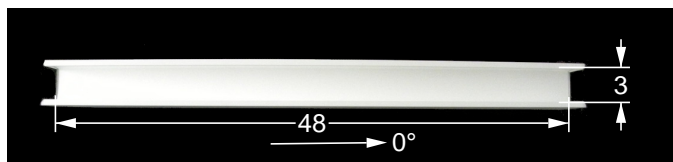
**LED DRIVERS:** TWO OSRAM OTi 50/120-277/1A4 DIM L, DRIVERS HAVE MULTIPLE LEADS, ONLY LINE INPUT AND LED OUTPUT LEADS CONNECTED FOR THIS TEST, CLIENT STATES EACH DRIVER PROGRAMMED FOR 700mA OUTPUT.

**NOTE:** DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED AT RATED INPUT VOLTAGE (277VAC, 60Hz) TO THE DRIVERS.

TEST PROCEDURE: IESNA LM-79-08

TEST DISTANCE = 35.0 FEET

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.



Checked

*M KLOPF*  
TECHNICIAN

Approved

*R BEATTIE*  
LIGHTING ENGINEER

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## CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0	
0	1032	1032	1032	1032	1032	
5	1028	1025	1020	1016	1016	97
15	1002	982	974	967	962	276
25	947	913	906	902	898	420
35	861	822	819	820	818	516
45	747	711	717	717	714	555
55	610	583	595	585	589	530
65	451	444	462	497	508	467
75	277	298	368	402	407	370
85	92	181	138	68	48	143
90	0	53	39	21	8	
95	39	95	88	68	55	87
105	239	280	257	230	210	269
115	584	600	573	531	504	559
125	979	972	957	933	919	849
135	1305	1296	1291	1269	1258	989
145	1552	1537	1542	1524	1510	958
155	1723	1710	1721	1704	1697	789
165	1834	1824	1832	1825	1821	516
175	1887	1888	1887	1888	1888	179
180	1894	1894	1894	1894	1894	

## FLUX

## ZONAL LUMEN SUMMARY

ZONE	LUMENS	%FIXT
0- 30	793	9.3
0- 40	1309	15.3
0- 60	2394	27.9
0- 90	3374	39.4
90-120	915	10.7
90-130	1764	20.6
90-150	3711	43.3
90-180	5195	60.6
0-180	8570	100.0

EFFICACY (277) = 119.2 lm/W

EFFICACY (120) = 122.4 lm/W \*\*

\*\* THE EFFICACY AT 120 VOLTS IS BASED ON THE LUMENS FROM THIS REPORT AND THE WATTAGE MEASURED AT 120 VOLTS FROM ITL REPORT NUMBER ITL89462-THD.

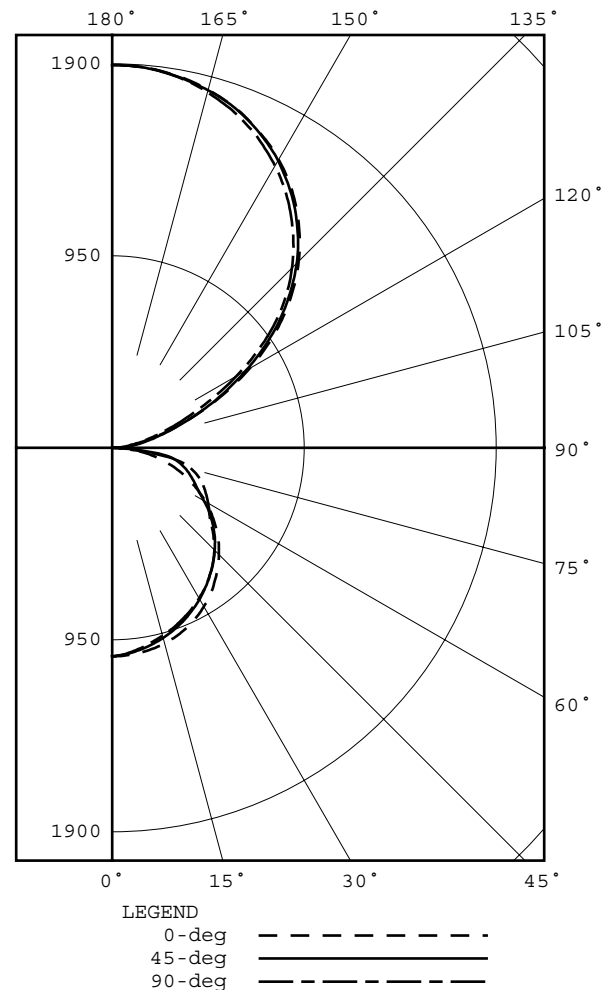
CIE TYPE - SEMI-INDIRECT

PLANE : 0-DEG 90-DEG

SPACING CRITERIA : 1.31 1.25

BEAM ANGLE (50%) : 111.7 X 108.6 DEGREES

FIELD ANGLE (10%) : 153.9 X 152.1 DEGREES





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CANDELA DISTRIBUTION  
LATERAL ANGLE

	0.0	22.5	45.0	67.5	90.0
0.0	1032	1032	1032	1032	1032
5.0	1028	1025	1020	1016	1016
10.0	1018	1008	1000	994	991
15.0	1002	982	974	967	962
20.0	978	951	943	938	932
25.0	947	913	906	902	898
30.0	907	870	865	863	860
35.0	861	822	819	820	818
40.0	806	769	770	771	769
45.0	747	711	717	717	714
50.0	682	649	660	656	651
55.0	610	583	595	585	589
60.0	533	516	524	538	548
65.0	451	444	462	497	508
70.0	366	371	415	455	465
75.0	277	298	368	402	407
80.0	186	246	306	308	300
85.0	92	181	138	68	48
90.0	0	53	39	21	8
95.0	39	95	88	68	55
100.0	123	169	160	136	120
105.0	239	280	257	230	210
110.0	396	425	395	359	336
115.0	584	600	573	531	504
120.0	786	789	764	735	710
125.0	979	972	957	933	919
130.0	1152	1144	1133	1113	1104
135.0	1305	1296	1291	1269	1258
140.0	1437	1425	1425	1404	1391
145.0	1552	1537	1542	1524	1510
150.0	1647	1633	1641	1623	1611
155.0	1723	1710	1721	1704	1697
160.0	1788	1774	1786	1771	1767
165.0	1834	1824	1832	1825	1821
170.0	1868	1864	1865	1865	1863
175.0	1887	1888	1887	1888	1888
180.0	1894	1894	1894	1894	1894



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5-DEGREE  
ZONAL LUMEN SUMMARY

0- 5	25
5- 10	72
10- 15	117
15- 20	158
20- 25	195
25- 30	225
30- 35	250
35- 40	267
40- 45	277
45- 50	278
50- 55	271
55- 60	259
60- 65	243
65- 70	224
70- 75	201
75- 80	169
80- 85	110
85- 90	33
90- 95	28
95-100	59
100-105	104
105-110	164
110-115	239
115-120	320
120-125	396
125-130	453
130-135	488
135-140	500
140-145	492
145-150	466
150-155	423
155-160	366
160-165	297
165-170	219
170-175	134
175-180	45

10-DEGREE  
ZONAL LUMEN SUMMARY

0- 10	97
0- 20	373
0- 30	793
0- 40	1309
0- 50	1864
0- 60	2394
0- 70	2861
0- 80	3231
0- 90	3374
0-100	3461
0-110	3730
0-120	4289
0-130	5138
0-140	6127
0-150	7085
0-160	7874
0-170	8390
0-180	8570



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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	105	105	105	105	95	95	95	95	77	77	77	61	61	61	46	46	46	39
1	95	90	86	82	86	82	78	75	67	64	62	53	51	49	40	39	37	31
2	86	78	71	66	77	71	65	61	58	54	50	45	43	40	34	32	31	25
3	78	68	60	54	70	62	55	50	50	46	42	40	36	33	30	28	26	21
4	71	60	52	46	64	55	48	42	45	39	35	35	31	28	26	24	22	18
5	65	53	45	39	59	48	41	36	40	34	30	31	27	24	24	21	19	15
6	60	47	39	33	54	43	36	31	36	30	26	28	24	21	21	19	16	13
7	55	43	35	29	50	39	32	27	32	27	23	26	21	18	19	17	14	12
8	51	39	31	25	46	35	28	24	29	24	20	23	19	16	18	15	13	10
9	47	35	28	23	43	32	25	21	27	21	18	21	17	15	16	14	11	9
10	44	32	25	20	40	29	23	19	24	19	16	20	16	13	15	12	10	8

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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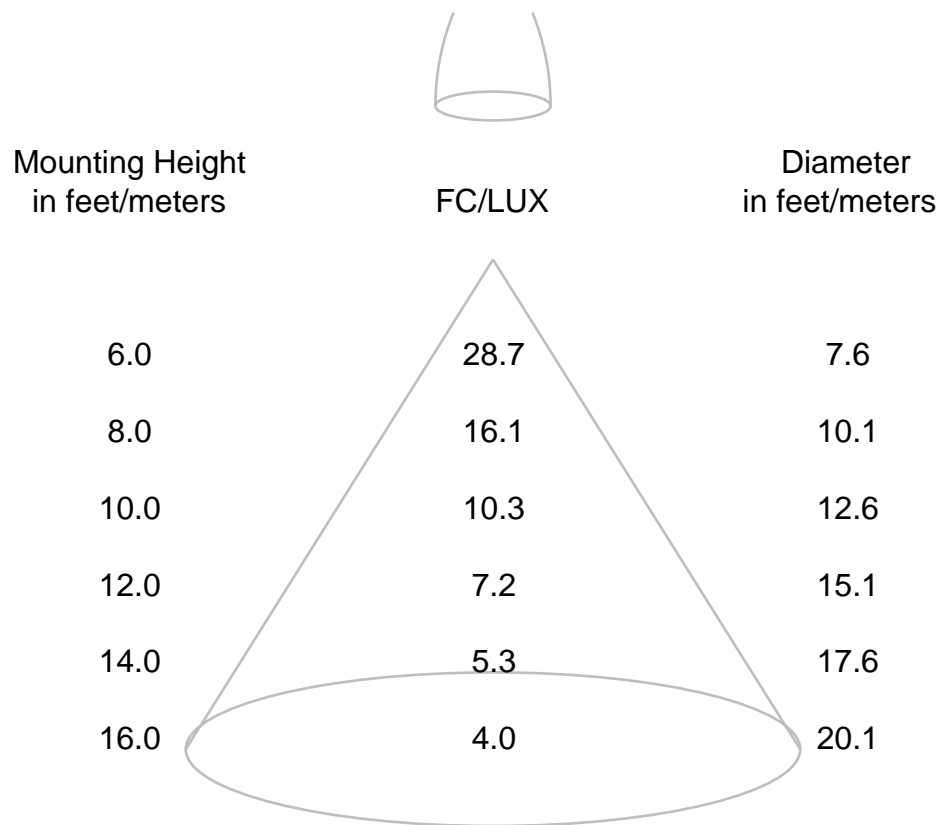
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## CONE OF LIGHT DIAGRAM

(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.

Note: The candela values used to generate this diagram were obtained by averaging the photometric data into a single plane.