

**itl boulder**  
THE LIGHT CENTER OF THE INDUSTRY SINCE 1955

**NVLAP**  
NVLAP LAB CODE: 200925-0

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

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REPORT NUMBER: ITL85156

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ISSUE DATE: 09/01/15

PREPARED FOR: FINELITE, INC.

CATALOG NUMBER: HPR-LED-F-2X4-DD-V-8-35

LUMINAIRE: FABRICATED METAL HOUSING WITH WHITE PAINTED INTERIOR FINISH, FORMED WHITE PAINTED METAL REFLECTOR AND LED DRIVER COVER, 4 WHITE CIRCUIT BOARDS EACH WITH 80 LEDS, FROSTED HOLOGRAPHIC FLAT PLASTIC LOWER LENS, TRANSLUCENT PLASTIC OVERLAY WITH INTEGRATED MICRO-GRID PATTERN ON TOP SURFACE IN FABRICATED WHITE PAINTED METAL FRAME. LENS FROSTED SIDE DOWN.

LAMPS: THREE HUNDRED TWENTY WHITE LIGHT EMITTING DIODES (LEDs), VERTICAL BASE-UP POSITION.

INPUT ELECTRICAL: 120.0 VOLTS, 55.1 WATTS, 0.460 AMPS

TOTAL REFLECTANCE OF PAINT = 94.3 %

MOUNTING: RECESSED

LED DRIVER: OSRAM OT50W/PRG1400C/UNV/DIM/L, DRIVER HAS MULTIPLE LEADS, ONLY LINE INPUT AND LED OUTPUT LEADS CONNECTED FOR THIS TEST, CLIENT STATES DRIVER PROGRAMMED FOR 1050mA OUTPUT.

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

TEST PROCEDURE: IESNA LM-79-08

TEST DISTANCE = 35.0 FEET

#### CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	2297	2297	2297	2297	2297
5	2283	2284	2283	2284	2284
15	2169	2170	2172	2169	2169
25	1956	1953	1952	1949	1949
35	1662	1657	1655	1651	1648
45	1317	1312	1312	1309	1302
55	962	960	959	953	952
65	627	627	625	621	622
75	322	325	325	324	324
85	85	85	86	85	85
90	0	0	0	0	0

#### FLUX

217
611
898
1034
1011
857
619
345
97

#### ZONAL LUMEN SUMMARY

ZONE	LUMENS	%FIXT
0- 30	1726	30.3
0- 40	2760	48.5
0- 60	4629	81.3
0- 90	5691	100.0
90-180	0	0.0
0-180	5691	100.0

EFFICACY (120V) = 103.5 lm/W

EFFICACY (277V) = 104.4 lm/W \*\*

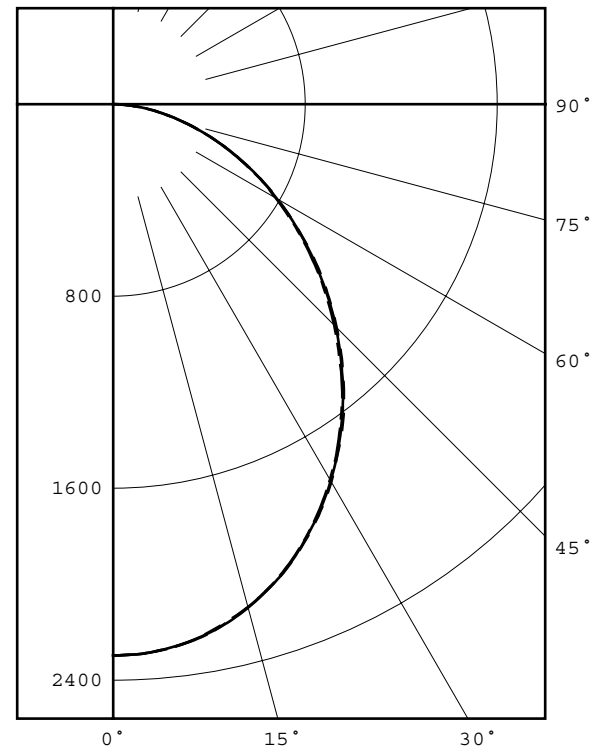
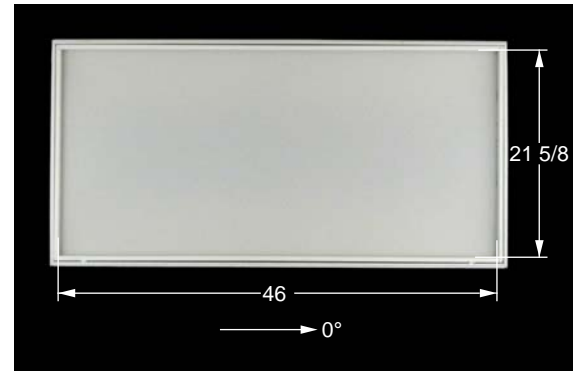
\*\* THE EFFICACY AT 277 VOLTS IS BASED ON THE LUMENS FROM THIS REPORT AND THE WATTAGE MEASURED AT 277 VOLTS FROM ITL REPORT NUMBER ITL85156-THD.

#### CIE TYPE - DIRECT

PLANE : 0-DEG 90-DEG  
SPACING CRITERIA : 1.18 1.18  
LUMINOUS LENGTH : 46.000 21.625

#### LUMINANCE DATA IN CANDELA/SQ M

ANGLE IN DEG	AVERAGE 0-DEG	AVERAGE 45-DEG	AVERAGE 90-DEG
45	2902.	2891.	2869.
55	2613.	2605.	2586.
65	2312.	2304.	2293.
75	1939.	1957.	1951.
85	1520.	1538.	1520.



#### LEGEND:

0-deg ---  
45-deg ---  
90-deg ---

Checked M KLOPF  
Approved R BEATTIE  
Lighting Engineer



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# CANDELA DISTRIBUTION LATERAL ANGLE

	0.0	22.5	45.0	67.5	90.0
0.0	2297	2297	2297	2297	2297
2.5	2294	2294	2294	2294	2294
5.0	2283	2284	2283	2284	2284
7.5	2267	2267	2266	2266	2267
10.0	2240	2241	2242	2242	2244
12.5	2206	2208	2211	2210	2209
15.0	2169	2170	2172	2169	2169
17.5	2124	2125	2126	2124	2124
20.0	2076	2074	2075	2072	2072
22.5	2018	2015	2016	2012	2013
25.0	1956	1953	1952	1949	1949
27.5	1889	1884	1885	1881	1880
30.0	1817	1814	1812	1809	1806
32.5	1738	1738	1736	1733	1730
35.0	1662	1657	1655	1651	1648
37.5	1579	1574	1572	1570	1566
40.0	1492	1489	1486	1484	1480
42.5	1405	1402	1399	1397	1389
45.0	1317	1312	1312	1309	1302
47.5	1228	1224	1223	1220	1213
50.0	1141	1136	1133	1133	1126
52.5	1053	1047	1047	1044	1038
55.0	962	960	959	953	952
57.5	876	876	873	868	866
60.0	791	790	788	784	781
62.5	709	710	707	702	707
65.0	627	627	625	621	622
67.5	547	548	546	542	543
70.0	470	471	470	466	468
72.5	394	396	395	394	394
75.0	322	325	325	324	324
77.5	258	258	258	258	258
80.0	196	195	196	196	197
82.5	138	138	139	139	139
85.0	85	85	86	85	85
87.5	39	36	37	36	33
90.0	0	0	0	0	0



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5-DEGREE  
ZONAL LUMEN SUMMARY

0- 5	55
5- 10	162
10- 15	262
15- 20	350
20- 25	422
25- 30	476
30- 35	510
35- 40	524
40- 45	518
45- 50	494
50- 55	454
55- 60	403
60- 65	343
65- 70	276
70- 75	207
75- 80	139
80- 85	76
85- 90	22

10-DEGREE  
ZONAL LUMEN SUMMARY

0- 10	217
0- 20	828
0- 30	1726
0- 40	2760
0- 50	3772
0- 60	4629
0- 70	5248
0- 80	5594
0- 90	5691



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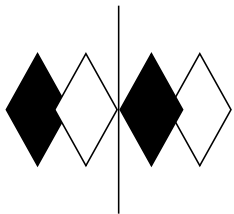
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# COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	109	105	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	76	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	63	55	49	61	54	49	59	53	48	58	52	48	45
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	47	42	40
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	36
8	62	49	40	34	60	48	40	34	47	39	34	45	39	34	44	38	34	32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26

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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