

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

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

INDEPENDENT TESTING LABORATORIES, INC.  
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REPORT NUMBER: ITL85151

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ISSUE DATE: 08/25/15

PREPARED FOR: FINELITE, INC.

CATALOG NUMBER: HPR-LED-ANR-2X4-DCO-V-8-35

LUMINAIRE: FABRICATED METAL HOUSING WITH WHITE PAINTED INTERIOR FINISH, FORMED WHITE PAINTED METAL REFLECTOR/LED DRIVER COVER, FOUR WHITE CIRCUIT BOARDS EACH WITH 80 LEDS, 3-PIECE FROSTED HOLOGRAPHIC FLAT PLASTIC LENS, FROSTED HOLOGRAPHIC PLASTIC UPPER INTERIOR MIDDLE LENS INSERT. FABRICATED WHITE PAINTED METAL FRAME. OUTBOARD AND BOTTOM LENSES FROSTED SIDE OUT. UPPER LENS FROSTED BOTH SIDES.

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

INPUT ELECTRICAL: 120.0 VOLTS, 55.0 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	2789	2789	2789	2789	2789
5	2776	2773	2772	2769	2768
15	2651	2640	2633	2621	2616
25	2402	2383	2363	2345	2338
35	2052	2026	1997	1976	1975
45	1624	1599	1571	1558	1553
55	1189	1155	1132	1126	1122
65	768	740	723	722	715
75	392	375	365	360	353
85	100	95	89	79	77
90	0	0	0	0	0

#### FLUX

263
741
1089
1252
1218
1023
726
392
104

#### ZONAL LUMEN SUMMARY

ZONE	LUMENS	%FIXT
0- 30	2093	30.7
0- 40	3344	49.1
0- 60	5585	82.0
0- 90	6808	100.0
90-180	0	0.0
0-180	6808	100.0

EFFICACY (120V) = 123.8 lm/W

EFFICACY (277V) = 124.9 lm/W \*\*

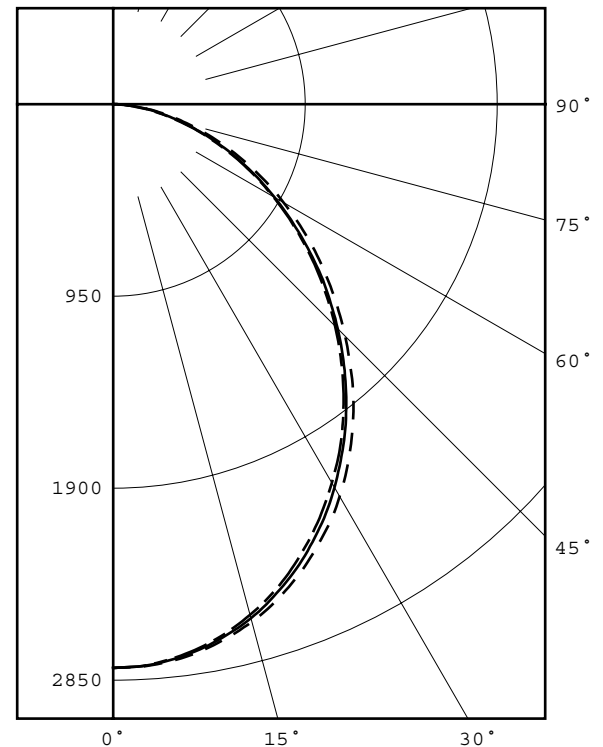
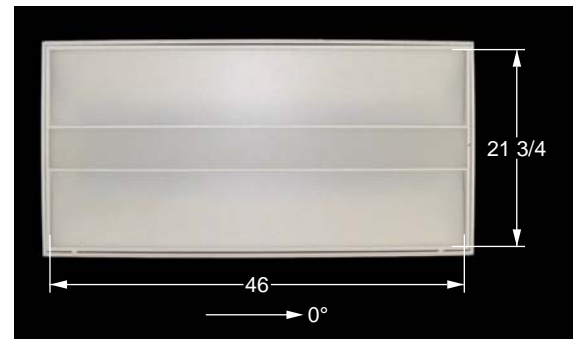
\*\* THE EFFICACY AT 277 VOLTS IS BASED ON THE LUMENS FROM THIS REPORT AND THE WATTAGE MEASURED AT 277 VOLTS FROM ITL REPORT NUMBER ITL85151-THD.

#### CIE TYPE - DIRECT

PLANE : 0-DEG 90-DEG  
SPACING CRITERIA : 1.20 1.16  
LUMINOUS LENGTH : 46.000 21.750

#### LUMINANCE DATA IN CANDELA/SQ M

ANGLE IN DEG	AVERAGE 0-DEG	AVERAGE 45-DEG	AVERAGE 90-DEG
45	3558.	3442.	3403.
55	3212.	3058.	3031.
65	2815.	2650.	2621.
75	2346.	2185.	2113.
85	1778.	1582.	1369.



#### LEGEND:

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

Checked B. HYRE  
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	2789	2789	2789	2789	2789
2.5	2787	2786	2785	2785	2785
5.0	2776	2773	2772	2769	2768
7.5	2758	2754	2749	2744	2743
10.0	2729	2723	2718	2711	2709
12.5	2693	2683	2679	2671	2667
15.0	2651	2640	2633	2621	2616
17.5	2601	2586	2576	2561	2558
20.0	2541	2527	2512	2495	2492
22.5	2476	2460	2442	2422	2417
25.0	2402	2383	2363	2345	2338
27.5	2327	2303	2281	2260	2253
30.0	2241	2215	2190	2171	2163
32.5	2149	2124	2094	2076	2073
35.0	2052	2026	1997	1976	1975
37.5	1951	1923	1894	1874	1872
40.0	1846	1817	1788	1771	1768
42.5	1733	1709	1680	1668	1660
45.0	1624	1599	1571	1558	1553
47.5	1513	1487	1461	1449	1444
50.0	1403	1377	1355	1341	1337
52.5	1298	1264	1242	1233	1229
55.0	1189	1155	1132	1126	1122
57.5	1081	1048	1026	1026	1017
60.0	974	943	922	921	913
62.5	870	840	822	821	813
65.0	768	740	723	722	715
67.5	668	641	629	625	619
70.0	572	550	536	533	527
72.5	479	459	448	444	439
75.0	392	375	365	360	353
77.5	309	294	287	282	276
80.0	233	221	214	210	204
82.5	163	155	152	143	138
85.0	100	95	89	79	77
87.5	43	41	36	34	36
90.0	0	0	0	0	0



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5-DEGREE  
ZONAL LUMEN SUMMARY

0- 5	66
5- 10	196
10- 15	317
15- 20	424
20- 25	512
25- 30	577
30- 35	618
35- 40	634
40- 45	625
45- 50	593
50- 55	544
55- 60	479
60- 65	404
65- 70	322
70- 75	237
75- 80	155
80- 85	82
85- 90	22

10-DEGREE  
ZONAL LUMEN SUMMARY

0- 10	263
0- 20	1004
0- 30	2093
0- 40	3344
0- 50	4562
0- 60	5585
0- 70	6311
0- 80	6703
0- 90	6808



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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	101	97	107	103	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72
3	91	81	73	67	89	80	72	67	77	71	65	74	69	64	71	67	63	61
4	84	72	64	57	82	71	63	57	69	62	56	66	60	55	64	59	55	53
5	77	65	56	50	75	64	56	50	62	55	49	60	53	48	58	52	48	46
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	42	40
7	67	53	45	39	65	53	44	39	51	44	38	50	43	38	48	42	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	44	39	34	32
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	29
10	55	42	34	29	53	41	34	29	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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