

**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: ITL86020

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ISSUE DATE: 11/10/15

PREPARED FOR: FINELITE, INC.

CATALOG NUMBER: HPR-LED-X-2X4-CS-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, FROSTED HOLOGRAPHIC PLASTIC LENS,  
FROSTED HOLOGRAPHIC PLASTIC LOWER MIDDLE LENS INSERT. FABRICATED  
WHITE PAINTED METAL FRAME. LENSES FROSTED SIDE OUT.

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

INPUT ELECTRICAL: 120.0 VOLTS, 55.1 WATTS, 0.461 AMPS

TOTAL REFLECTANCE OF PAINT = 93.8 %

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						FLUX
	0.0	22.5	45.0	67.5	90.0	
0	2500	2500	2500	2500	2500	
5	2488	2487	2486	2485	2484	236
15	2374	2372	2367	2361	2357	667
25	2166	2158	2148	2139	2137	990
35	1879	1867	1853	1843	1842	1161
45	1546	1527	1513	1511	1509	1172
55	1181	1162	1152	1151	1147	1034
65	793	780	778	780	779	773
75	409	411	417	424	429	444
85	90	105	115	113	112	125
90	0	0	0	0	0	

ZONAL LUMEN SUMMARY		
ZONE	LUMENS	%FIXT
0- 30	1892	28.7
0- 40	3053	46.3
0- 60	5260	79.7
0- 90	6602	100.0
90-180	0	0.0
0-180	6602	100.0

EFFICACY (120V) = 119.8 lm/W

EFFICACY (277V) = 120.9 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 ITL86020-THD.

CIE TYPE - DIRECT

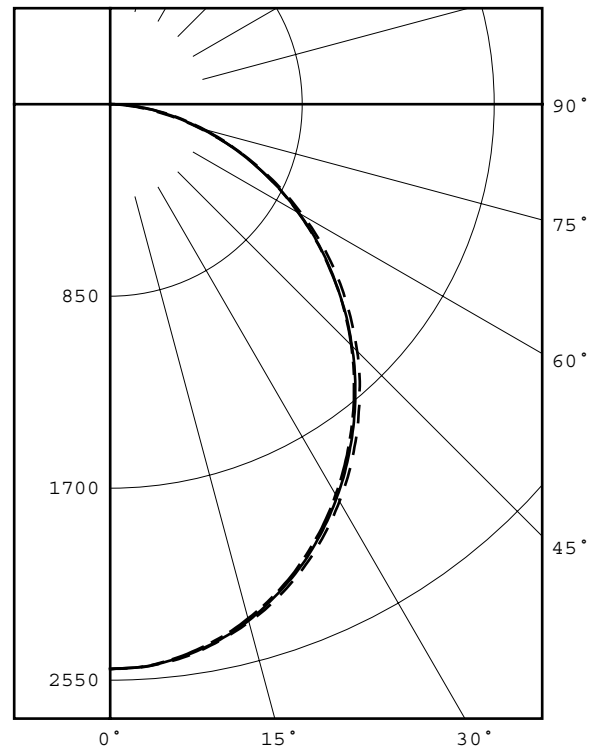
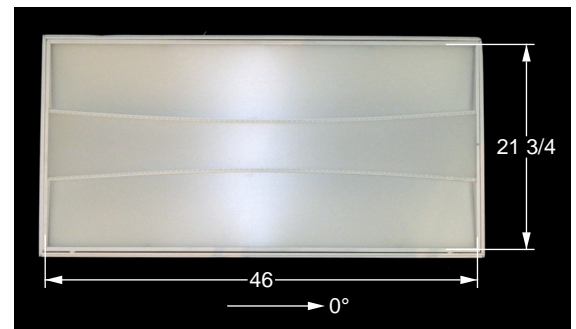
PLANE : 0-DEG 90-DEG

SPACING CRITERIA : 1.21 1.19

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	3387.	3315.	3306.
55	3190.	3112.	3098.
65	2907.	2852.	2856.
75	2448.	2496.	2568.
85	1600.	2044.	1991.



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	2500	2500	2500	2500	2500
2.5	2498	2497	2497	2496	2497
5.0	2488	2487	2486	2485	2484
7.5	2471	2468	2466	2464	2462
10.0	2444	2443	2440	2435	2433
12.5	2411	2410	2407	2403	2399
15.0	2374	2372	2367	2361	2357
17.5	2331	2328	2319	2313	2311
20.0	2281	2277	2267	2261	2259
22.5	2227	2221	2211	2203	2201
25.0	2166	2158	2148	2139	2137
27.5	2100	2091	2080	2071	2069
30.0	2030	2019	2008	1998	1996
32.5	1957	1945	1933	1923	1921
35.0	1879	1867	1853	1843	1842
37.5	1799	1786	1772	1764	1762
40.0	1716	1702	1688	1683	1679
42.5	1634	1618	1603	1598	1595
45.0	1546	1527	1513	1511	1509
47.5	1456	1437	1425	1422	1421
50.0	1365	1346	1333	1333	1332
52.5	1274	1254	1242	1243	1238
55.0	1181	1162	1152	1151	1147
57.5	1085	1067	1059	1059	1055
60.0	985	971	965	964	963
62.5	889	876	872	872	871
65.0	793	780	778	780	779
67.5	696	685	685	688	688
70.0	598	591	594	598	603
72.5	502	501	504	510	515
75.0	409	411	417	424	429
77.5	320	325	334	342	347
80.0	236	245	257	264	268
82.5	160	172	184	188	190
85.0	90	105	115	113	112
87.5	31	45	48	47	45
90.0	0	0	0	0	0



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5-DEGREE  
ZONAL LUMEN SUMMARY

0- 5	60
5- 10	176
10- 15	285
15- 20	382
20- 25	463
25- 30	526
30- 35	569
35- 40	592
40- 45	595
45- 50	578
50- 55	543
55- 60	491
60- 65	425
65- 70	348
70- 75	265
75- 80	179
80- 85	98
85- 90	27

10-DEGREE  
ZONAL LUMEN SUMMARY

0- 10	236
0- 20	903
0- 30	1892
0- 40	3053
0- 50	4226
0- 60	5260
0- 70	6033
0- 80	6477
0- 90	6602



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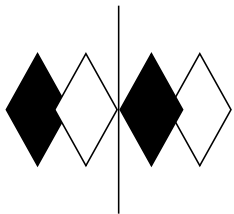
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# COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	104	100	96	106	102	98	94	98	94	91	94	91	89	90	88	86	84
2	99	91	84	78	96	89	83	77	85	80	76	82	78	74	79	76	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	65	61	59
4	83	71	62	56	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	71	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	38	33	43	37	32	31
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

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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