

**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

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

REPORT NUMBER: ITL86019

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ISSUE DATE: 11/11/15

PREPARED FOR: FINELITE, INC.

CATALOG NUMBER: HPR-LED-X-2X2-CS-V-8-35

LUMINAIRE: FABRICATED METAL HOUSING WITH WHITE PAINTED INTERIOR FINISH,  
FORMED WHITE PAINTED METAL REFLECTOR/LED DRIVER COVER, TWO 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: ONE HUNDRED SIXTY WHITE LIGHT EMITTING DIODES (LEDs), VERTICAL  
BASE-UP POSITION.

INPUT ELECTRICAL: 120.0 VOLTS, 58.2 WATTS,  
0.486 AMPS

TOTAL REFLECTANCE OF PAINT = 93.4 %

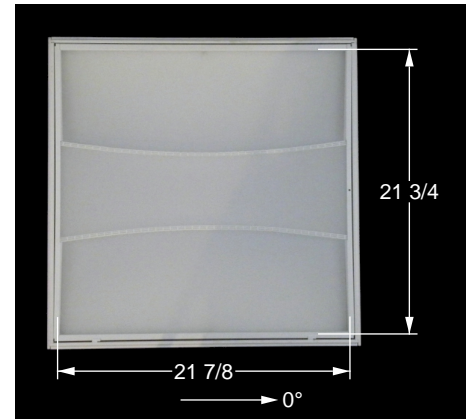
MOUNTING: RECESSED

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 = 20.0 FEET



CANDELA DISTRIBUTION						FLUX
	0.0	22.5	45.0	67.5	90.0	
0	2294	2294	2294	2294	2294	
5	2284	2284	2284	2283	2284	217
15	2183	2184	2181	2178	2177	615
25	1988	1987	1981	1983	1980	913
35	1718	1718	1712	1718	1721	1074
45	1410	1401	1403	1415	1419	1087
55	1071	1067	1071	1083	1091	962
65	723	717	730	742	751	724
75	376	380	394	410	418	419
85	89	98	111	111	113	121
90	0	0	0	0	0	

ZONAL LUMEN SUMMARY		
ZONE	LUMENS	%FIXT
0- 30	1745	28.5
0- 40	2819	46.0
0- 60	4868	79.4
0- 90	6132	100.0
90-180	0	0.0
0-180	6132	100.0

EFFICACY (120V) = 105.4 lm/W

EFFICACY (277V) = 107.2 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 ITL86019-THD.

CIE TYPE - DIRECT

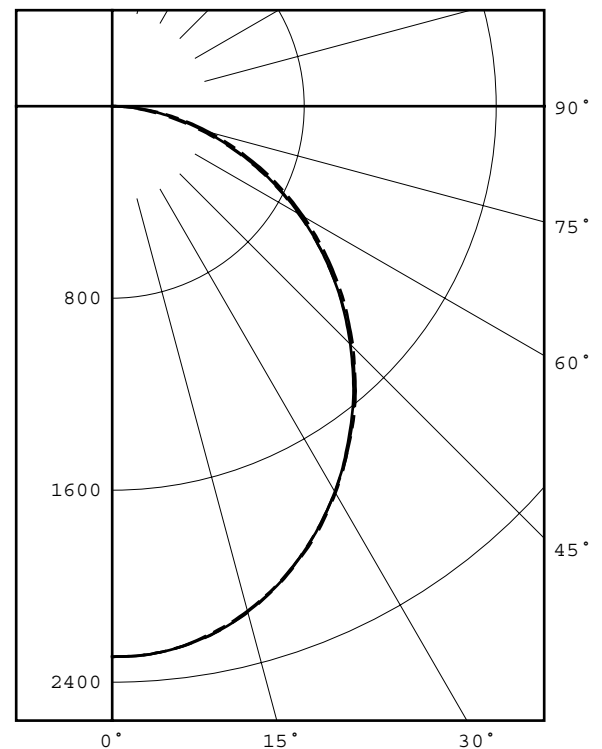
PLANE : 0-DEG 90-DEG

SPACING CRITERIA : 1.21 1.21

LUMINOUS LENGTH : 21.875 21.750

LUMINANCE DATA IN CANDELA/SQ M

ANGLE	AVERAGE	AVERAGE	AVERAGE
IN DEG	0-DEG	45-DEG	90-DEG
45	6496.	6464.	6538.
55	6083.	6083.	6197.
65	5573.	5627.	5789.
75	4733.	4959.	5261.
85	3327.	4149.	4224.



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	2294	2294	2294	2294	2294
2.5	2292	2292	2293	2292	2292
5.0	2284	2284	2284	2283	2284
7.5	2268	2269	2269	2268	2268
10.0	2248	2249	2246	2245	2242
12.5	2218	2220	2218	2214	2213
15.0	2183	2184	2181	2178	2177
17.5	2141	2143	2139	2136	2136
20.0	2095	2096	2092	2089	2089
22.5	2042	2043	2038	2038	2037
25.0	1988	1987	1981	1983	1980
27.5	1926	1925	1920	1922	1919
30.0	1861	1858	1855	1858	1856
32.5	1792	1789	1786	1789	1790
35.0	1718	1718	1712	1718	1721
37.5	1645	1643	1639	1646	1651
40.0	1568	1562	1564	1571	1577
42.5	1491	1487	1483	1494	1497
45.0	1410	1401	1403	1415	1419
47.5	1327	1322	1321	1333	1338
50.0	1243	1238	1240	1251	1259
52.5	1157	1153	1156	1167	1175
55.0	1071	1067	1071	1083	1091
57.5	984	980	987	998	1006
60.0	897	892	902	913	921
62.5	810	803	816	827	836
65.0	723	717	730	742	751
67.5	635	631	643	658	666
70.0	549	545	557	572	579
72.5	459	462	475	490	498
75.0	376	380	394	410	418
77.5	296	302	317	332	341
80.0	221	229	244	258	266
82.5	150	159	177	186	190
85.0	89	98	111	111	113
87.5	36	43	47	49	51
90.0	0	0	0	0	0



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5-DEGREE  
ZONAL LUMEN SUMMARY

0- 5	55
5- 10	162
10- 15	263
15- 20	352
20- 25	427
25- 30	486
30- 35	526
35- 40	548
40- 45	551
45- 50	536
50- 55	504
55- 60	457
60- 65	397
65- 70	327
70- 75	249
75- 80	170
80- 85	94
85- 90	27

10-DEGREE  
ZONAL LUMEN SUMMARY

0- 10	217
0- 20	832
0- 30	1745
0- 40	2819
0- 50	3906
0- 60	4868
0- 70	5591
0- 80	6011
0- 90	6132



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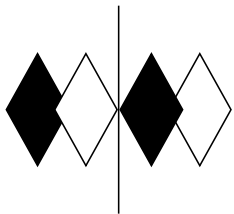
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	97	94	91	94	91	89	90	88	86	84
2	99	91	84	78	96	89	83	77	85	80	75	82	78	74	79	75	72	70
3	90	80	72	65	88	78	71	65	75	69	63	72	67	62	70	65	61	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	51
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27
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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ADDRESS: 30500 WHIPPLE ROAD  
UNION CITY, CA 94587

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