

**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: ITL85836

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ISSUE DATE: 10/15/15

PREPARED FOR: FINELITE, INC.

CATALOG NUMBER: HPR-LED-WAV-2X2-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, TRANSLUCENT WHITE HOLOGRAPHIC  
PLASTIC LENS IN FABRICATED WHITE PAINTED METAL FRAME.

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

INPUT ELECTRICAL: 120.0 VOLTS, 58.2 WATTS, 0.487 AMPS

TOTAL REFLECTANCE OF PAINT = 93.4 %

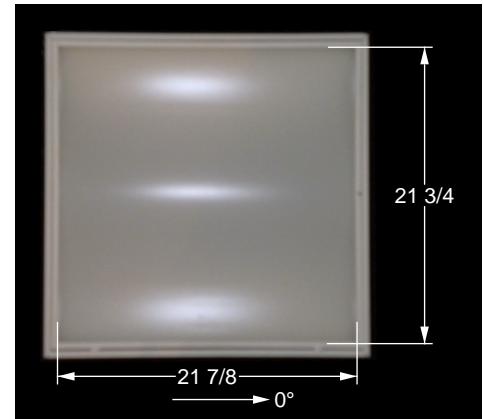
MOUNTING: RECESSED

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	2457	2457	2457	2457	2457	
5	2445	2446	2446	2447	2448	232
15	2334	2338	2341	2347	2348	660
25	2120	2122	2136	2146	2155	983
35	1825	1833	1852	1867	1879	1158
45	1485	1494	1516	1536	1547	1169
55	1124	1133	1154	1174	1185	1031
65	758	763	781	800	812	774
75	390	397	421	439	451	445
85	86	94	108	112	115	121
90	0	0	0	0	0	

ZONAL LUMEN SUMMARY		
ZONE	LUMENS	%FIXT
0- 30	1876	28.5
0- 40	3033	46.1
0- 60	5234	79.6
0- 90	6574	100.0
90-180	0	0.0
0-180	6574	100.0

EFFICACY (120V) = 113.0 lm/W

EFFICACY (277V) = 114.9 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 ITL85836-THD.

CIE TYPE - DIRECT

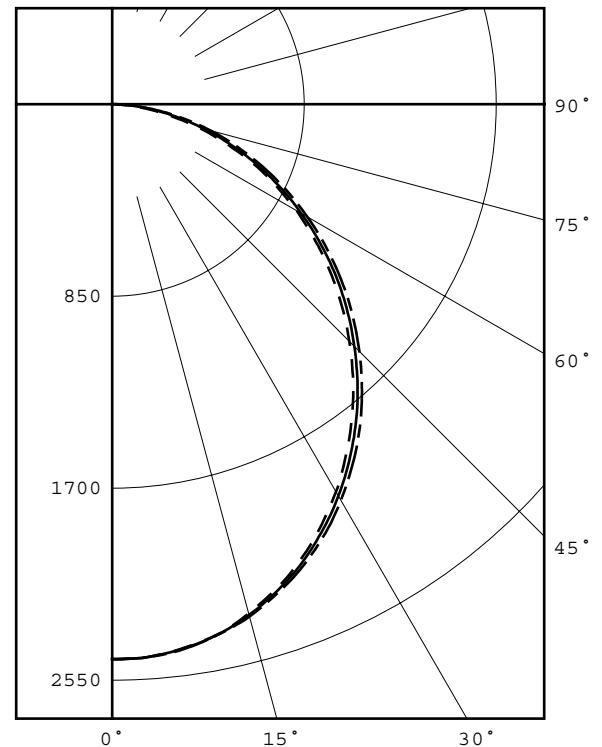
PLANE : 0-DEG 90-DEG

SPACING CRITERIA : 1.20 1.23

LUMINOUS LENGTH : 21.875 21.750

LUMINANCE DATA IN CANDELA/SQ M

ANGLE IN DEG	AVERAGE 0-DEG	AVERAGE 45-DEG	AVERAGE 90-DEG
45	6842.	6985.	7127.
55	6384.	6555.	6731.
65	5843.	6020.	6259.
75	4909.	5299.	5677.
85	3215.	4037.	4299.



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	2457	2457	2457	2457	2457
2.5	2455	2456	2456	2456	2456
5.0	2445	2446	2446	2447	2448
7.5	2428	2429	2430	2432	2433
10.0	2406	2407	2408	2408	2409
12.5	2376	2375	2378	2379	2381
15.0	2334	2338	2341	2347	2348
17.5	2288	2292	2298	2305	2306
20.0	2239	2241	2250	2257	2262
22.5	2181	2184	2197	2205	2211
25.0	2120	2122	2136	2146	2155
27.5	2051	2057	2072	2084	2093
30.0	1982	1985	2003	2016	2025
32.5	1904	1911	1929	1944	1953
35.0	1825	1833	1852	1867	1879
37.5	1744	1752	1773	1789	1801
40.0	1660	1668	1690	1706	1719
42.5	1573	1582	1604	1623	1634
45.0	1485	1494	1516	1536	1547
47.5	1396	1405	1428	1445	1459
50.0	1307	1315	1339	1357	1370
52.5	1216	1224	1248	1266	1278
55.0	1124	1133	1154	1174	1185
57.5	1031	1041	1061	1079	1092
60.0	943	946	967	985	998
62.5	846	855	875	894	905
65.0	758	763	781	800	812
67.5	665	670	688	710	719
70.0	568	576	597	619	628
72.5	478	486	508	527	539
75.0	390	397	421	439	451
77.5	304	314	335	355	364
80.0	223	234	254	272	279
82.5	149	160	178	191	195
85.0	86	94	108	112	115
87.5	35	39	43	41	41
90.0	0	0	0	0	0



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5-DEGREE  
ZONAL LUMEN SUMMARY

0- 5	59
5- 10	174
10- 15	282
15- 20	378
20- 25	460
25- 30	524
30- 35	567
35- 40	590
40- 45	593
45- 50	576
50- 55	541
55- 60	490
60- 65	425
65- 70	349
70- 75	265
75- 80	179
80- 85	96
85- 90	25

10-DEGREE  
ZONAL LUMEN SUMMARY

0- 10	232
0- 20	892
0- 30	1876
0- 40	3033
0- 50	4203
0- 60	5234
0- 70	6008
0- 80	6453
0- 90	6574



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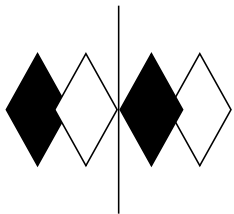
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# COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	62	70	65	61	59
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	70	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	37	33	43	37	32	30
9	57	44	35	30	56	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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