

REPORT NUMBER: ITL85837

PAGE: 1 OF 5

ISSUE DATE: 10/16/15

PREPARED FOR: FINELITE, INC.

CATALOG NUMBER: HPR-LED-WAV-2X4-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 TRANSLUCENT WHITE
HOLOGRAPHIC PLASTIC LENS IN FABRICATED WHITE PAINTED METAL FRAME.

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

	0.0	22.5	45.0	67.5	90.0	FLUX
0	2634	2634	2634	2634	2634	
5	2621	2620	2620	2620	2620	249
15	2501	2502	2510	2513	2511	707
25	2281	2281	2291	2298	2296	1054
35	1977	1978	1990	1998	2000	1244
45	1617	1621	1633	1642	1645	1258
55	1229	1232	1243	1252	1249	1111
65	825	832	843	850	857	833
75	424	432	451	464	474	477
85	89	102	123	135	138	136
90	0	0	0	0	0	

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%FIXT
0- 30	2010	28.4
0- 40	3254	46.0
0- 60	5623	79.6
0- 90	7069	100.0
90-180	0	0.0
0-180	7069	100.0

EFFICACY (120V) = 128.3 lm/W

EFFICACY (277V) = 129.5 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 ITL85837-THD.

CIE TYPE - DIRECT

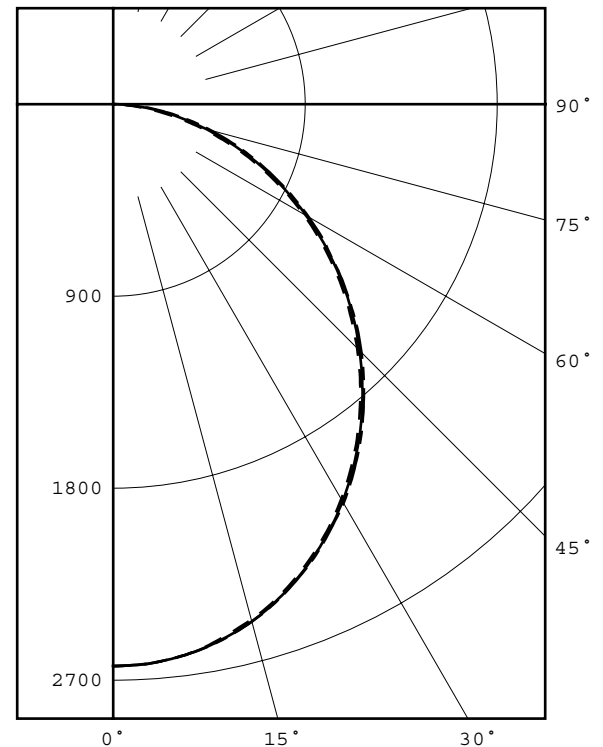
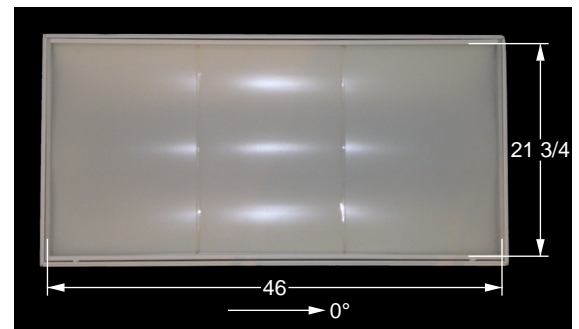
PLANE : 0-DEG 90-DEG

SPACING CRITERIA : 1.21 1.22

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	3543.	3578.	3604.
55	3320.	3357.	3374.
65	3024.	3090.	3142.
75	2538.	2700.	2837.
85	1582.	2186.	2453.



LEGEND:

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

Checked M KLOPF
Approved R BEATTIE
Lighting Engineer



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: ITL85837

PAGE: 2 OF 5

ISSUE DATE: 10/16/15

PREPARED FOR: FINELITE, INC.

CANDELA DISTRIBUTION LATERAL ANGLE

	0.0	22.5	45.0	67.5	90.0
0.0	2634	2634	2634	2634	2634
2.5	2631	2630	2631	2630	2630
5.0	2621	2620	2620	2620	2620
7.5	2603	2603	2603	2602	2603
10.0	2575	2576	2579	2581	2580
12.5	2539	2542	2547	2551	2549
15.0	2501	2502	2510	2513	2511
17.5	2457	2456	2464	2468	2467
20.0	2404	2403	2412	2417	2415
22.5	2345	2344	2354	2360	2358
25.0	2281	2281	2291	2298	2296
27.5	2212	2210	2223	2229	2227
30.0	2138	2139	2150	2155	2159
32.5	2060	2060	2072	2080	2082
35.0	1977	1978	1990	1998	2000
37.5	1891	1893	1906	1913	1916
40.0	1802	1804	1817	1824	1827
42.5	1711	1714	1726	1735	1738
45.0	1617	1621	1633	1642	1645
47.5	1521	1526	1539	1546	1551
50.0	1425	1428	1443	1450	1450
52.5	1328	1329	1345	1352	1353
55.0	1229	1232	1243	1252	1249
57.5	1130	1135	1146	1151	1159
60.0	1028	1033	1044	1050	1058
62.5	927	933	944	950	957
65.0	825	832	843	850	857
67.5	724	730	742	751	758
70.0	623	630	644	653	662
72.5	522	530	545	557	566
75.0	424	432	451	464	474
77.5	330	339	360	375	384
80.0	242	252	275	290	299
82.5	161	172	196	212	217
85.0	89	102	123	135	138
87.5	33	42	57	62	63
90.0	0	0	0	0	0



itl boulder
THE LIGHT CENTER OF THE INDUSTRY SINCE 1955



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: ITL85837
ISSUE DATE: 10/16/15
PREPARED FOR: FINELITE, INC.

PAGE: 3 OF 5

5-DEGREE
ZONAL LUMEN SUMMARY

0- 5	63
5- 10	186
10- 15	302
15- 20	405
20- 25	493
25- 30	561
30- 35	609
35- 40	635
40- 45	638
45- 50	620
50- 55	583
55- 60	528
60- 65	458
65- 70	375
70- 75	285
75- 80	192
80- 85	105
85- 90	30

10-DEGREE
ZONAL LUMEN SUMMARY

0- 10	249
0- 20	956
0- 30	2010
0- 40	3254
0- 50	4512
0- 60	5623
0- 70	6456
0- 80	6933
0- 90	7069



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: ITL85837

PAGE: 4 OF 5

ISSUE DATE: 10/16/15

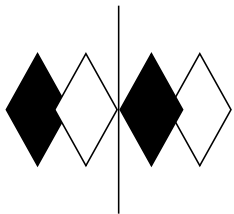
PREPARED FOR: FINELITE, INC.

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	75	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	80	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	68	56	48	42	54	47	41	53	46	41	51	45	41	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	44	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.



itl boulder
THE LIGHT CENTER OF THE INDUSTRY SINCE 1955



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: ITL85837
ISSUE DATE: 10/16/15
PREPARED FOR: FINELITE, INC.

PAGE: 5 OF 5

ADDRESS: 30500 WHIPPLE ROAD
UNION CITY, CA 94587

THIS ITL REPORT WITH THE USE OF THE NVLAP LOGO SHALL NOT BE USED BY THE CLIENT TO CLAIM PRODUCT CERTIFICATION, APPROVAL, OR ENDORSEMENT BY NVLAP, NIST, OR ANY AGENCY OF THE FEDERAL GOVERNMENT.