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THE LIGHT CENTER OF THE INDUSTRY SINCE 1955

NVLAP
NVLAP LAB CODE: 200925-0

INDEPENDENT TESTING LABORATORIES, INC.
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REPORT NUMBER: ITL85142

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ISSUE DATE: 08/18/15

PREPARED FOR: FINELITE, INC.

CATALOG NUMBER: HPR-LED-F-2X2-DCO-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, 3-PIECE FROSTED HOLOGRAPHIC FLAT PLASTIC LENS IN FABRICATED WHITE PAINTED METAL FRAME. LENS FROSTED SIDE OUT.

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

INPUT ELECTRICAL: 120.0 VOLTS, 58.1 WATTS, 0.486 AMPS

TOTAL REFLECTANCE OF PAINT = 93.4 %

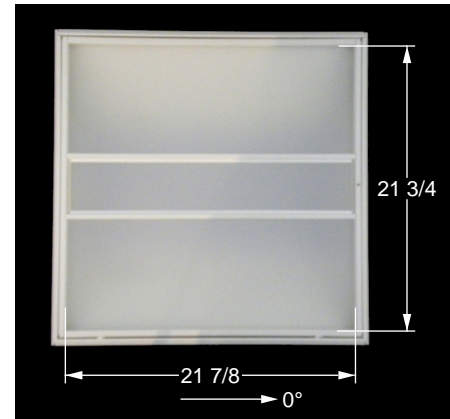
MOUNTING: RECESSED

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

	0.0	22.5	45.0	67.5	90.0	FLUX
0	2574	2574	2574	2574	2574	
5	2561	2561	2560	2559	2560	243
15	2440	2439	2441	2442	2444	688
25	2199	2199	2207	2217	2224	1016
35	1861	1863	1877	1900	1907	1175
45	1475	1473	1494	1517	1529	1154
55	1075	1074	1093	1109	1116	978
65	693	696	702	712	718	699
75	356	354	357	362	367	382
85	90	87	85	83	85	101
90	0	0	0	0	0	

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%FIXT
0- 30	1947	30.3
0- 40	3123	48.5
0- 60	5254	81.6
0- 90	6436	100.0
90-180	0	0.0
0-180	6436	100.0

EFFICACY (120V) = 110.8 lm/W

EFFICACY (277V) = 112.5 lm/W **

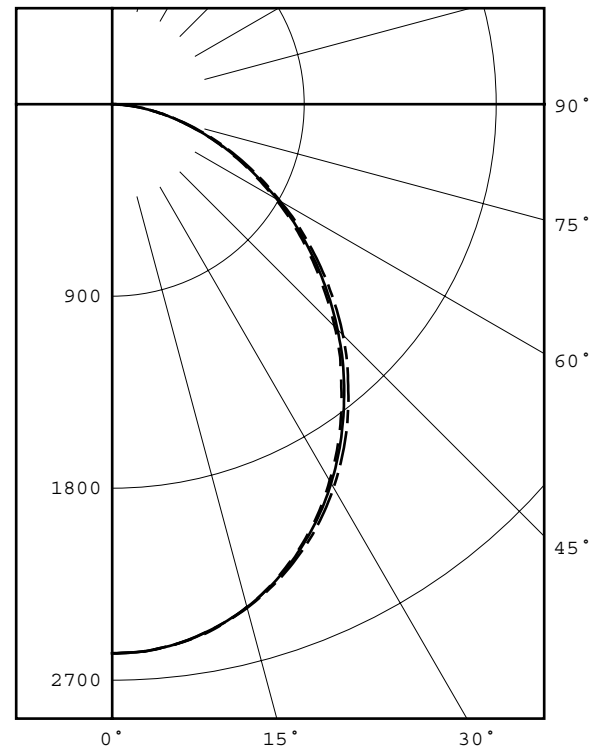
** THE EFFICACY AT 277 VOLTS IS BASED ON THE LUMENS FROM THIS REPORT AND THE WATTAGE MEASURED AT 277 VOLTS FROM ITL REPORT NUMBER ITL85142-THD.

CIE TYPE - DIRECT

PLANE : 0-DEG 90-DEG
SPACING CRITERIA : 1.18 1.20
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	6796.	6883.	7044.
55	6106.	6208.	6339.
65	5342.	5411.	5535.
75	4481.	4494.	4620.
85	3364.	3177.	3177.



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	2574	2574	2574	2574	2574
2.5	2572	2571	2571	2571	2571
5.0	2561	2561	2560	2559	2560
7.5	2543	2542	2542	2541	2542
10.0	2519	2517	2515	2514	2514
12.5	2483	2482	2481	2482	2483
15.0	2440	2439	2441	2442	2444
17.5	2391	2389	2392	2395	2398
20.0	2332	2333	2337	2344	2347
22.5	2269	2269	2275	2283	2288
25.0	2199	2199	2207	2217	2224
27.5	2122	2122	2133	2147	2153
30.0	2038	2040	2052	2070	2076
32.5	1952	1955	1967	1988	1994
35.0	1861	1863	1877	1900	1907
37.5	1766	1769	1784	1808	1816
40.0	1668	1671	1690	1713	1721
42.5	1577	1573	1594	1616	1628
45.0	1475	1473	1494	1517	1529
47.5	1373	1373	1394	1416	1427
50.0	1272	1272	1293	1314	1323
52.5	1173	1173	1193	1211	1219
55.0	1075	1074	1093	1109	1116
57.5	979	977	995	1008	1015
60.0	880	880	894	909	910
62.5	783	787	796	807	813
65.0	693	696	702	712	718
67.5	605	605	612	621	626
70.0	519	519	524	532	537
72.5	436	436	438	443	451
75.0	356	354	357	362	367
77.5	280	280	282	284	289
80.0	211	209	210	213	216
82.5	147	145	146	147	148
85.0	90	87	85	83	85
87.5	38	34	31	29	30
90.0	0	0	0	0	0



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5-DEGREE
ZONAL LUMEN SUMMARY

0- 5	61
5- 10	182
10- 15	294
15- 20	394
20- 25	477
25- 30	540
30- 35	580
35- 40	596
40- 45	590
45- 50	564
50- 55	519
55- 60	459
60- 65	388
65- 70	311
70- 75	230
75- 80	152
80- 85	80
85- 90	20

10-DEGREE
ZONAL LUMEN SUMMARY

0- 10	243
0- 20	931
0- 30	1947
0- 40	3123
0- 50	4277
0- 60	5254
0- 70	5953
0- 80	6335
0- 90	6436



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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	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	64	55	49	61	54	49	59	53	48	58	52	48	45
6	71	58	50	43	70	57	49	43	56	48	43	54	47	42	52	47	42	40
7	66	53	45	38	65	52	44	38	51	43	38	49	43	38	48	42	38	36
8	62	49	40	34	60	48	40	34	47	39	34	45	39	34	44	38	34	32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	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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