

itl boulder
THE LIGHT CENTER OF THE INDUSTRY SINCE 1955

NVLAP
NVLAP LAB CODE: 200925-0

INDEPENDENT TESTING LABORATORIES, INC.
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REPORT NUMBER: ITL85140

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ISSUE DATE: 08/17/15

PREPARED FOR: FINELITE, INC.

CATALOG NUMBER: HPR-LED-F-1X2-DCO-B-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 40 LEDS, 3-PIECE FROSTED HOLOGRAPHIC FLAT PLASTIC LENS IN FABRICATED WHITE PAINTED METAL FRAME. LENS FROSTED SIDE OUT.

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

INPUT ELECTRICAL: 277.0 VOLTS, 21.1 WATTS, 0.0839 AMPS

TOTAL REFLECTANCE OF PAINT = 92.8 %

MOUNTING: RECESSED

LED DRIVER: OSRAM OT30W/PRG1050C/UNV/DIM/L, DRIVER HAS MULTIPLE LEADS, ONLY LINE INPUT AND LED OUTPUT LEADS CONNECTED FOR THIS TEST, CLIENT STATES DRIVER PROGRAMMED FOR 700mA OUTPUT.

NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED AT RATED INPUT VOLTAGE (277VAC, 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	793	793	793	793	793	
5	789	789	789	789	790	75
15	755	755	757	758	760	213
25	684	685	687	688	688	316
35	582	583	583	580	580	363
45	463	462	456	449	445	351
55	337	335	327	316	310	291
65	220	215	205	193	188	203
75	113	109	99	90	86	106
85	29	25	18	17	17	25
90	0	0	0	0	0	

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%FIXT
0- 30	604	31.1
0- 40	967	49.8
0- 60	1609	82.8
0- 90	1943	100.0
90-180	0	0.0
0-180	1943	100.0

EFFICACY (277V) = 92.1 lm/W

EFFICACY (120V) = 98.6 lm/W **

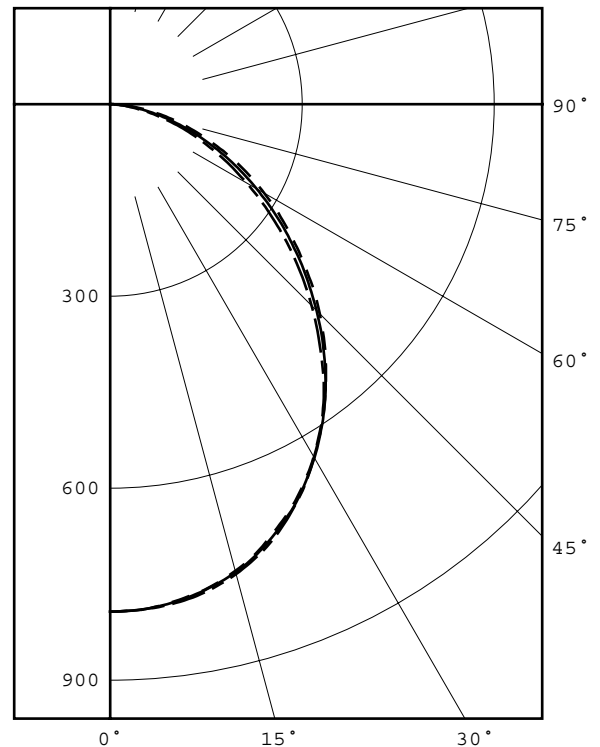
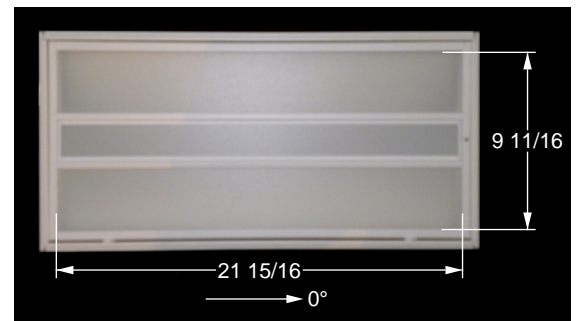
** THE EFFICACY AT 120 VOLTS IS BASED ON THE LUMENS FROM THIS REPORT AND THE WATTAGE MEASURED AT 120 VOLTS FROM ITL REPORT NUMBER ITL85140-THD.

CIE TYPE - DIRECT

PLANE : 0-DEG 90-DEG
SPACING CRITERIA : 1.20 1.20
LUMINOUS LENGTH : 21.938 9.688

LUMINANCE DATA IN CANDELA/SQ M

ANGLE IN DEG	AVERAGE 0-DEG	AVERAGE 45-DEG	AVERAGE 90-DEG
45	4776.	4703.	4590.
55	4285.	4158.	3942.
65	3797.	3538.	3244.
75	3184.	2790.	2423.
85	2427.	1506.	1423.



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	793	793	793	793	793
2.5	792	792	792	792	792
5.0	789	789	789	789	790
7.5	783	784	784	785	786
10.0	776	777	777	778	780
12.5	767	767	768	770	771
15.0	755	755	757	758	760
17.5	741	741	743	745	746
20.0	723	725	726	729	730
22.5	704	706	707	709	710
25.0	684	685	687	688	688
27.5	661	662	663	664	664
30.0	636	637	638	638	637
32.5	609	611	611	610	610
35.0	582	583	583	580	580
37.5	553	554	553	548	548
40.0	524	524	521	516	513
42.5	494	493	489	483	479
45.0	463	462	456	449	445
47.5	432	429	423	415	411
50.0	399	397	391	382	377
52.5	368	366	358	348	343
55.0	337	335	327	316	310
57.5	308	304	295	283	278
60.0	278	274	264	252	246
62.5	249	244	234	222	216
65.0	220	215	205	193	188
67.5	191	187	176	165	160
70.0	163	160	149	139	135
72.5	137	134	123	113	110
75.0	113	109	99	90	86
77.5	89	86	76	68	65
80.0	67	64	55	47	45
82.5	47	43	35	29	29
85.0	29	25	18	17	17
87.5	13	9	8	7	7
90.0	0	0	0	0	0



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5-DEGREE
ZONAL LUMEN SUMMARY

0- 5	19
5- 10	56
10- 15	91
15- 20	122
20- 25	148
25- 30	168
30- 35	180
35- 40	184
40- 45	180
45- 50	171
50- 55	155
55- 60	136
60- 65	113
65- 70	89
70- 75	65
75- 80	41
80- 85	20
85- 90	5

10-DEGREE
ZONAL LUMEN SUMMARY

0- 10	75
0- 20	288
0- 30	604
0- 40	967
0- 50	1318
0- 60	1609
0- 70	1812
0- 80	1918
0- 90	1943



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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	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	92	86	80	98	90	85	79	87	82	78	84	80	76	81	77	74	72
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	62
4	84	73	64	58	82	71	64	57	69	62	57	67	61	56	65	59	55	53
5	78	65	57	50	76	64	56	50	62	55	49	60	54	49	58	53	48	46
6	72	59	50	44	70	58	50	44	56	49	44	55	48	43	53	47	43	41
7	67	54	45	39	65	53	45	39	51	44	39	50	43	39	49	43	38	36
8	62	49	41	35	61	48	41	35	47	40	35	46	39	35	45	39	34	33
9	58	45	37	32	57	45	37	32	43	36	32	42	36	31	41	36	31	29
10	55	42	34	29	53	41	34	29	40	33	29	39	33	29	38	33	28	27

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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