

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: ITL85153

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ISSUE DATE: 08/26/15

PREPARED FOR: FINELITE, INC.

CATALOG NUMBER: HPR-LED-F-1X4-DD-B-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 40 LEDS, FROSTED HOLOGRAPHIC FLAT PLASTIC LOWER LENS, TRANSLUCENT PLASTIC OVERLAY WITH INTEGRATED MICRO-GRID PATTERN ON TOP SURFACE IN FABRICATED WHITE PAINTED METAL FRAME. LENS FROSTED SIDE DOWN.

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

INPUT ELECTRICAL: 277.0 VOLTS, 37.7 WATTS, 0.144 AMPS

TOTAL REFLECTANCE OF PAINT = 93.7 %

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 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 = 35.0 FEET

CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0	FLUX
0	1433	1433	1433	1433	1433	
5	1425	1425	1425	1424	1424	135
15	1358	1348	1352	1351	1344	380
25	1222	1210	1211	1207	1200	557
35	1034	1023	1021	1014	1009	637
45	818	811	806	797	795	621
55	598	593	585	577	576	524
65	389	385	378	370	369	375
75	202	199	194	189	188	207
85	54	51	45	41	38	54
90	0	0	0	0	0	

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%FIXT
0- 30	1072	30.7
0- 40	1709	49.0
0- 60	2855	81.8
0- 90	3491	100.0
90-180	0	0.0
0-180	3491	100.0

EFFICACY (277V) = 92.6 lm/W

EFFICACY (120V) = 94.6 lm/W **

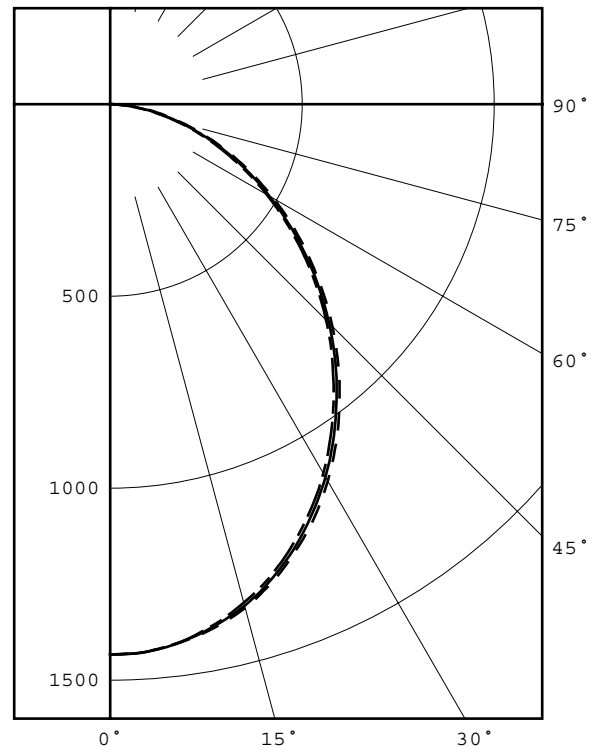
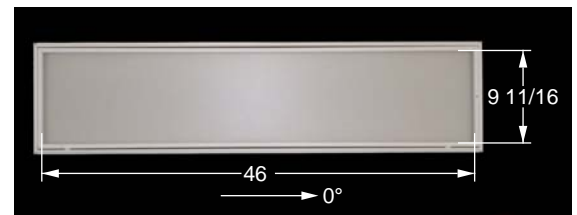
** THE EFFICACY AT 120 VOLTS IS BASED ON THE LUMENS FROM THIS REPORT AND THE WATTAGE MEASURED AT 120 VOLTS FROM ITL REPORT NUMBER ITL85153-THD.

CIE TYPE - DIRECT

PLANE : 0-DEG 90-DEG
SPACING CRITERIA : 1.18 1.16
LUMINOUS LENGTH : 46.000 9.688

LUMINANCE DATA IN CANDELA/SQ M

ANGLE IN DEG	AVERAGE 0-DEG	AVERAGE 45-DEG	AVERAGE 90-DEG
45	4024.	3965.	3911.
55	3626.	3548.	3493.
65	3202.	3111.	3037.
75	2715.	2607.	2527.
85	2155.	1796.	1517.



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	1433	1433	1433	1433	1433
2.5	1431	1431	1432	1432	1432
5.0	1425	1425	1425	1424	1424
7.5	1413	1413	1413	1411	1412
10.0	1399	1396	1396	1396	1393
12.5	1380	1374	1376	1376	1371
15.0	1358	1348	1352	1351	1344
17.5	1329	1319	1323	1321	1315
20.0	1297	1286	1289	1286	1280
22.5	1260	1251	1252	1249	1242
25.0	1222	1210	1211	1207	1200
27.5	1179	1167	1167	1163	1157
30.0	1133	1122	1121	1115	1110
32.5	1084	1073	1072	1065	1060
35.0	1034	1023	1021	1014	1009
37.5	981	972	968	960	956
40.0	928	919	916	907	902
42.5	873	866	861	851	850
45.0	818	811	806	797	795
47.5	763	758	750	743	740
50.0	706	703	695	686	685
52.5	652	647	640	630	630
55.0	598	593	585	577	576
57.5	545	539	532	524	523
60.0	492	487	479	472	471
62.5	439	437	428	420	420
65.0	389	385	378	370	369
67.5	339	336	330	324	321
70.0	291	289	283	277	275
72.5	246	243	237	232	231
75.0	202	199	194	189	188
77.5	162	157	153	149	147
80.0	123	119	114	110	108
82.5	87	83	78	74	72
85.0	54	51	45	41	38
87.5	24	20	15	14	13
90.0	0	0	0	0	0



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5-DEGREE
ZONAL LUMEN SUMMARY

0- 5	34
5- 10	101
10- 15	163
15- 20	217
20- 25	262
25- 30	295
30- 35	315
35- 40	322
40- 45	318
45- 50	303
50- 55	278
55- 60	246
60- 65	208
65- 70	167
70- 75	124
75- 80	82
80- 85	43
85- 90	11

10-DEGREE
ZONAL LUMEN SUMMARY

0- 10	135
0- 20	515
0- 30	1072
0- 40	1709
0- 50	2331
0- 60	2855
0- 70	3230
0- 80	3437
0- 90	3491



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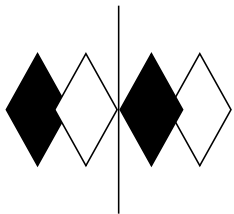
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	72
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61
4	84	72	64	57	82	71	63	57	68	62	56	66	60	55	64	59	55	52
5	77	65	56	50	75	64	56	49	62	54	49	60	53	48	58	52	48	46
6	72	59	50	44	70	58	49	43	56	49	43	54	48	43	53	47	42	40
7	67	53	45	39	65	53	44	39	51	44	38	50	43	38	48	42	38	36
8	62	49	40	35	60	48	40	35	47	40	34	46	39	34	44	38	34	32
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	29
10	54	42	34	29	53	41	34	29	40	33	28	39	33	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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