

REPORT NUMBER: ITL85145

PAGE: 1 OF 5

ISSUE DATE: 08/20/15

PREPARED FOR: FINELITE, INC.

CATALOG NUMBER: HPR-LED-F-2X4-DCO-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 FROSTED HOLOGRAPHIC FLAT PLASTIC LENS IN FABRICATED WHITE PAINTED METAL FRAME. LENS FROSTED SIDE OUT.

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	2741	2741	2741	2741	2741	
5	2730	2728	2728	2727	2727	259
15	2613	2607	2609	2605	2602	735
25	2380	2374	2371	2366	2367	1091
35	2043	2036	2033	2030	2033	1271
45	1635	1628	1627	1626	1630	1256
55	1200	1195	1196	1195	1187	1069
65	780	778	774	766	761	766
75	401	400	393	388	389	420
85	103	100	97	91	89	111
90	0	0	0	0	0	

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%FIXT
0- 30	2085	29.9
0- 40	3357	48.1
0- 60	5681	81.4
0- 90	6979	100.0
90-180	0	0.0
0-180	6979	100.0

EFFICACY (120V) = 126.7 lm/W

EFFICACY (277V) = 127.8 lm/W **

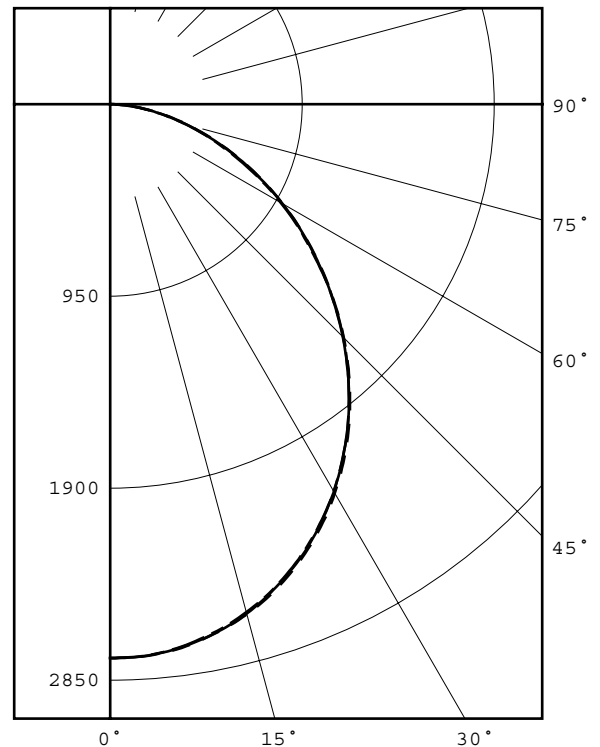
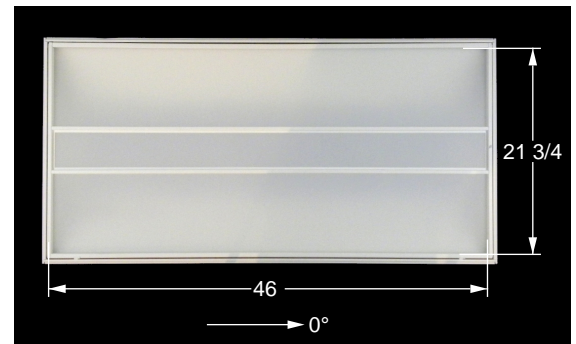
** THE EFFICACY AT 277 VOLTS IS BASED ON THE LUMENS FROM THIS REPORT AND THE WATTAGE MEASURED AT 277 VOLTS FROM ITL REPORT NUMBER ITL85145-THD.

CIE TYPE - DIRECT

PLANE : 0-DEG 90-DEG
SPACING CRITERIA : 1.21 1.20
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	3582.	3565.	3571.
55	3241.	3230.	3206.
65	2859.	2837.	2790.
75	2400.	2352.	2328.
85	1831.	1724.	1582.



LEGEND:

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

Checked M KLOPF
Approved R BEATTIE
Lighting Engineer



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PAGE: 2 OF 5

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CANDELA DISTRIBUTION LATERAL ANGLE

	0.0	22.5	45.0	67.5	90.0
0.0	2741	2741	2741	2741	2741
2.5	2739	2739	2739	2738	2738
5.0	2730	2728	2728	2727	2727
7.5	2713	2711	2710	2708	2707
10.0	2685	2684	2683	2682	2678
12.5	2652	2648	2650	2647	2645
15.0	2613	2607	2609	2605	2602
17.5	2566	2561	2559	2555	2555
20.0	2511	2506	2502	2498	2498
22.5	2449	2444	2441	2436	2436
25.0	2380	2374	2371	2366	2367
27.5	2305	2298	2294	2290	2292
30.0	2223	2216	2213	2209	2211
32.5	2135	2129	2125	2122	2124
35.0	2043	2036	2033	2030	2033
37.5	1946	1940	1937	1934	1938
40.0	1845	1838	1836	1834	1837
42.5	1741	1735	1733	1731	1735
45.0	1635	1628	1627	1626	1630
47.5	1526	1520	1520	1519	1522
50.0	1417	1412	1412	1410	1413
52.5	1308	1303	1303	1305	1297
55.0	1200	1195	1196	1195	1187
57.5	1093	1091	1091	1086	1083
60.0	986	984	984	978	974
62.5	882	880	878	872	869
65.0	780	778	774	766	761
67.5	679	678	673	665	661
70.0	582	583	576	569	565
72.5	489	490	482	479	477
75.0	401	400	393	388	389
77.5	317	315	310	306	306
80.0	239	236	232	229	229
82.5	168	166	163	157	157
85.0	103	100	97	91	89
87.5	43	41	34	30	29
90.0	0	0	0	0	0



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PAGE: 3 OF 5

5-DEGREE
ZONAL LUMEN SUMMARY

0- 5	65
5- 10	194
10- 15	314
15- 20	421
20- 25	511
25- 30	580
30- 35	625
35- 40	646
40- 45	641
45- 50	614
50- 55	566
55- 60	503
60- 65	426
65- 70	340
70- 75	253
75- 80	167
80- 85	89
85- 90	23

10-DEGREE
ZONAL LUMEN SUMMARY

0- 10	259
0- 20	994
0- 30	2085
0- 40	3357
0- 50	4612
0- 60	5681
0- 70	6448
0- 80	6868
0- 90	6979



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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	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	79	97	90	84	79	86	81	77	83	79	75	80	76	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	51	43	38	49	42	38	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	33	32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	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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