

REPORT NUMBER: ITL85141

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ISSUE DATE: 08/18/15

PREPARED FOR: FINELITE, INC.

CATALOG NUMBER: HPR-LED-F-1X4-DCO-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, 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: 277.0 VOLTS, 38.1 WATTS, 0.146 AMPS

TOTAL REFLECTANCE OF PAINT = 93.2 %

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						FLUX
	0.0	22.5	45.0	67.5	90.0	
0	1625	1625	1625	1625	1625	154
5	1616	1617	1618	1618	1618	
15	1543	1540	1549	1549	1545	435
25	1400	1393	1399	1393	1386	642
35	1194	1189	1184	1168	1156	737
45	953	946	929	907	896	715
55	703	695	670	646	637	600
65	461	453	429	401	393	424
75	239	234	211	190	184	225
85	65	55	38	32	30	53
90	0	0	0	0	0	

ZONAL LUMEN SUMMARY		
ZONE	LUMENS	%FIXT
0- 30	1230	30.9
0- 40	1967	49.4
0- 60	3283	82.4
0- 90	3985	100.0
90-180	0	0.0
0-180	3985	100.0

EFFICACY (277V) = 104.6 lm/W

EFFICACY (120V) = 107.4 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 ITL85141-THD.

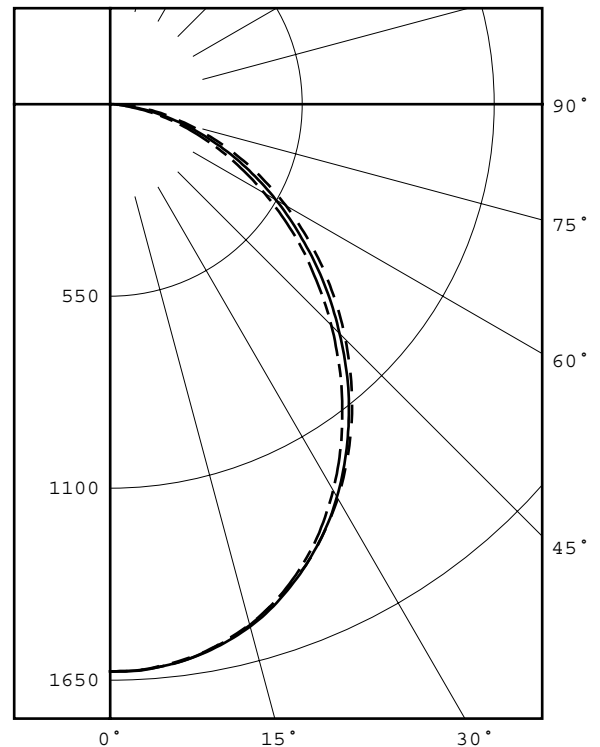
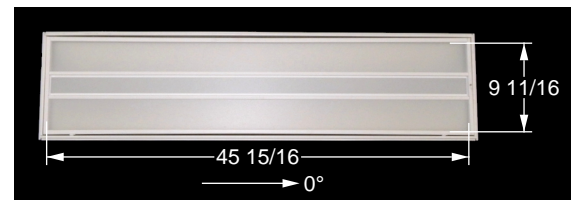
CIE TYPE - DIRECT

PLANE : 0-DEG 90-DEG

SPACING CRITERIA : 1.20 1.17

LUMINOUS LENGTH : 45.938 9.688

LUMINANCE DATA IN CANDELA/SQ M			
ANGLE	AVERAGE	AVERAGE	AVERAGE
IN DEG	0-DEG	45-DEG	90-DEG
45	4694.	4576.	4413.
55	4269.	4069.	3868.
65	3799.	3536.	3239.
75	3216.	2839.	2476.
85	2598.	1519.	1199.



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	1625	1625	1625	1625	1625
2.5	1624	1624	1625	1624	1624
5.0	1616	1617	1618	1618	1618
7.5	1605	1606	1608	1608	1608
10.0	1590	1588	1593	1594	1591
12.5	1568	1567	1573	1575	1570
15.0	1543	1540	1549	1549	1545
17.5	1512	1508	1519	1518	1512
20.0	1478	1474	1483	1480	1475
22.5	1442	1436	1443	1440	1432
25.0	1400	1393	1399	1393	1386
27.5	1353	1346	1352	1343	1333
30.0	1304	1297	1299	1288	1277
32.5	1250	1244	1243	1229	1218
35.0	1194	1189	1184	1168	1156
37.5	1137	1131	1123	1104	1092
40.0	1077	1071	1061	1039	1028
42.5	1015	1010	995	973	961
45.0	953	946	929	907	896
47.5	891	885	865	840	829
50.0	828	822	800	775	763
52.5	766	760	736	710	702
55.0	703	695	670	646	637
57.5	641	633	610	584	573
60.0	581	572	548	522	511
62.5	520	512	488	460	451
65.0	461	453	429	401	393
67.5	403	396	372	344	337
70.0	346	340	315	290	283
72.5	291	286	262	239	232
75.0	239	234	211	190	184
77.5	190	185	163	145	138
80.0	147	138	117	100	94
82.5	104	94	74	62	57
85.0	65	55	38	32	30
87.5	29	18	13	12	11
90.0	0	0	0	0	0



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5-DEGREE
ZONAL LUMEN SUMMARY

0- 5	39
5- 10	115
10- 15	186
15- 20	249
20- 25	301
25- 30	340
30- 35	364
35- 40	373
40- 45	367
45- 50	348
50- 55	319
55- 60	281
60- 65	237
65- 70	188
70- 75	137
75- 80	88
80- 85	43
85- 90	10

10-DEGREE
ZONAL LUMEN SUMMARY

0- 10	154
0- 20	589
0- 30	1230
0- 40	1967
0- 50	2682
0- 60	3283
0- 70	3707
0- 80	3932
0- 90	3985



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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	98	95	93	95	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77	84	79	76	81	77	74	72
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61
4	84	73	64	58	82	71	63	57	69	62	56	66	60	56	64	59	55	53
5	78	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	46
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	41
7	67	54	45	39	65	53	45	39	51	44	39	50	43	38	48	43	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	45	39	34	32
9	58	45	37	32	57	44	37	32	43	36	31	42	36	31	41	35	31	29
10	55	42	34	29	53	41	34	29	40	33	29	39	33	28	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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