

REPORT NUMBER: ITL85135

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ISSUE DATE: 08/13/15

PREPARED FOR: FINELITE, INC.

CATALOG NUMBER: HP-2-R-4ft-V-8-35

LUMINAIRE: EXTRUDED METAL HOUSING WITH WHITE PAINTED GENERAL INTERIOR FINISH, WHITE PAINTED FLAT METAL END CAPS, FORMED WHITE PAINTED METAL CIRCUIT BOARD MOUNT/REFLECTOR, 2 WHITE CIRCUIT BOARDS EACH WITH 80 LEDS, TRANSLUCENT WHITE FROSTED PLASTIC DIFFUSER. DIFFUSER FROSTED BOTH SIDES.

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

INPUT ELECTRICAL: 277.0 VOLTS, 37.8 WATTS, 0.144 AMPS

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	1335	1335	1335	1335	1335	
5	1327	1326	1325	1325	1324	126
15	1264	1254	1255	1248	1242	353
25	1138	1122	1116	1100	1090	512
35	967	951	937	915	904	585
45	773	760	742	719	711	572
55	575	565	549	529	522	491
65	386	379	368	354	350	365
75	214	209	203	197	196	216
85	65	63	61	60	60	69
90	0	0	0	0	0	

ZONAL LUMEN SUMMARY		
ZONE	LUMENS	%FIXT
0- 30	990	30.1
0- 40	1575	47.9
0- 60	2638	80.2
0- 90	3287	100.0
90-180	0	0.0
0-180	3287	100.0

EFFICACY (277V) = 87.0 lm/W

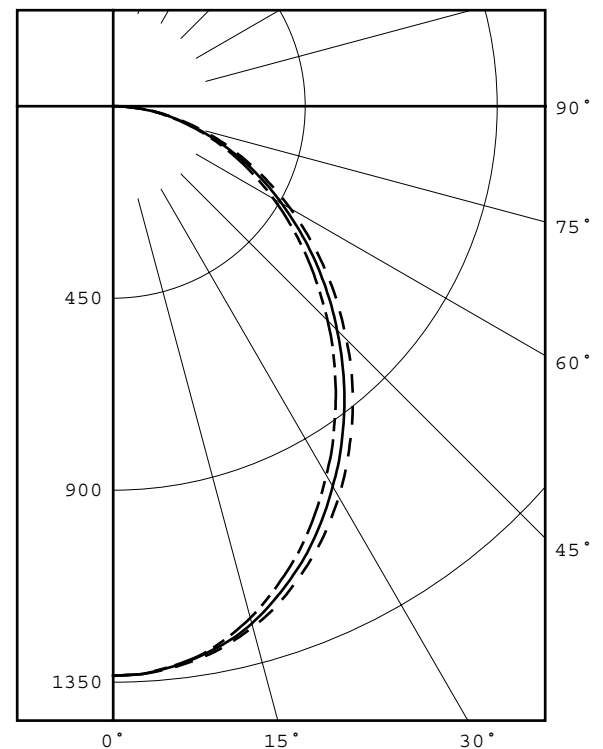
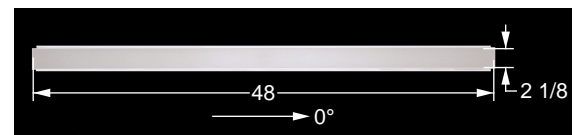
EFFICACY (120V) = 89.1 lm/W **

** THE EFFICACY AT 120 VOLTS IS BASED ON THE LUMENS FROM THIS REPORT AND THE WATTAGE MEASURED AT 120 VOLTS FROM ITL REPORT NUMBER ITL85135-THD.

CIE TYPE - DIRECT

PLANE : 0-DEG 90-DEG
SPACING CRITERIA : 1.18 1.13
LUMINOUS LENGTH : 48.000 2.125

LUMINANCE DATA IN CANDELA/SQ M			
ANGLE	AVERAGE	AVERAGE	AVERAGE
IN DEG	0-DEG	45-DEG	90-DEG
45	16612.	15946.	15280.
55	15234.	14545.	13830.
65	13879.	13232.	12585.
75	12565.	11919.	11508.
85	11333.	10636.	10461.



LEGEND:
0-deg ---
45-deg ---
90-deg ---

Checked M KLOPF
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	1335	1335	1335	1335	1335
2.5	1333	1333	1333	1333	1333
5.0	1327	1326	1325	1325	1324
7.5	1317	1316	1314	1313	1312
10.0	1304	1299	1298	1297	1295
12.5	1286	1279	1280	1275	1270
15.0	1264	1254	1255	1248	1242
17.5	1239	1226	1225	1217	1208
20.0	1208	1194	1191	1181	1171
22.5	1174	1160	1156	1142	1133
25.0	1138	1122	1116	1100	1090
27.5	1099	1081	1074	1056	1045
30.0	1057	1041	1029	1011	999
32.5	1013	997	985	964	954
35.0	967	951	937	915	904
37.5	921	905	890	866	857
40.0	873	858	841	817	808
42.5	825	810	792	768	760
45.0	773	760	742	719	711
47.5	723	712	694	672	661
50.0	675	662	645	624	614
52.5	625	613	597	576	568
55.0	575	565	549	529	522
57.5	527	517	502	484	478
60.0	479	470	456	440	434
62.5	432	425	412	398	391
65.0	386	379	368	354	350
67.5	341	335	325	315	310
70.0	298	292	282	275	271
72.5	256	250	242	236	233
75.0	214	209	203	197	196
77.5	175	171	166	161	160
80.0	136	134	130	126	127
82.5	101	99	96	94	94
85.0	65	63	61	60	60
87.5	30	29	28	28	28
90.0	0	0	0	0	0



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5-DEGREE
ZONAL LUMEN SUMMARY

0- 5	32
5- 10	94
10- 15	151
15- 20	201
20- 25	241
25- 30	271
30- 35	289
35- 40	296
40- 45	292
45- 50	280
50- 55	259
55- 60	232
60- 65	200
65- 70	165
70- 75	127
75- 80	89
80- 85	52
85- 90	16

10-DEGREE
ZONAL LUMEN SUMMARY

0- 10	126
0- 20	478
0- 30	990
0- 40	1575
0- 50	2147
0- 60	2638
0- 70	3002
0- 80	3219
0- 90	3287



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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	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	85	79	97	89	83	78	86	81	76	83	78	74	80	76	73	71
3	91	80	72	66	88	79	71	65	76	70	64	73	68	63	71	66	62	60
4	83	72	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	52
5	77	64	55	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	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	28
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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