

REPORT NUMBER: ITL86098

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ISSUE DATE: 11/30/15

PREPARED FOR: FINELITE, INC.

CATALOG NUMBER: HP-6-R-4ft-V-8-35

LUMINAIRE: EXTRUDED WHITE PAINTED METAL HOUSING WITH WHITE PAINTED FLAT METAL END CAPS, FORMED WHITE PAINTED METAL REFLECTOR/CIRCUIT BOARD MOUNT, 4 CIRCUIT BOARDS EACH WITH 40 LEDS, EXTRUDED 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, 38.4 WATTS, 0.146 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

	0.0	22.5	45.0	67.5	90.0	
0	1360	1360	1360	1360	1360	
5	1353	1353	1353	1354	1354	129
15	1301	1293	1299	1300	1294	366
25	1193	1183	1192	1189	1185	547
35	1043	1034	1039	1036	1034	649
45	865	858	862	859	856	663
55	668	662	665	661	662	593
65	465	460	461	460	459	456
75	263	261	261	260	261	277
85	81	80	80	79	81	89
90	0	0	0	0	0	

## FLUX

## ZONAL LUMEN SUMMARY

ZONE	LUMENS	%FIXT
0- 30	1042	27.6
0- 40	1691	44.9
0- 60	2947	78.2
0- 90	3769	100.0
90-180	0	0.0
0-180	3769	100.0

EFFICACY (277V) = 98.2 lm/W

EFFICACY (120V) = 100.2 lm/W \*\*

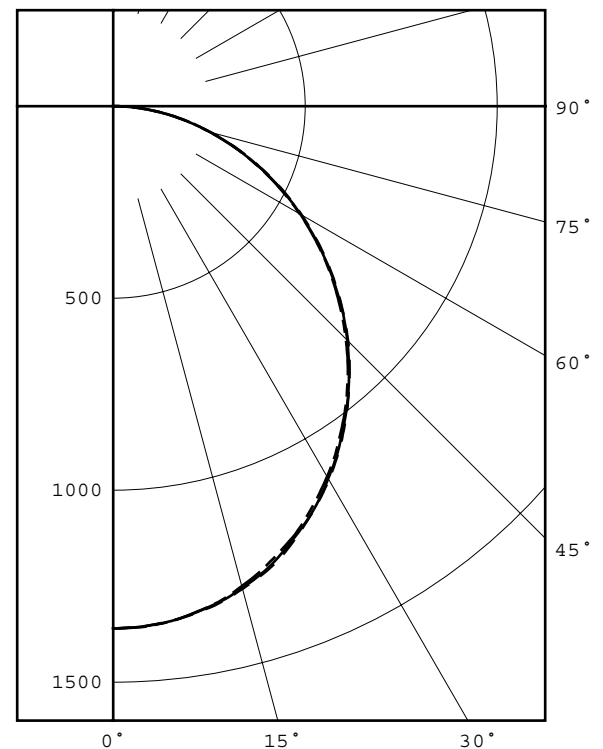
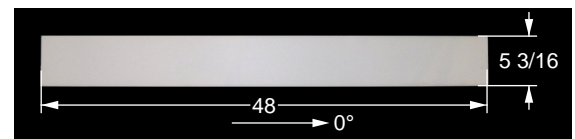
\*\* THE EFFICACY AT 120 VOLTS IS BASED ON THE LUMENS FROM THIS REPORT AND THE WATTAGE MEASURED AT 120 VOLTS FROM ITL REPORT NUMBER ITL86098-THD.

## CIE TYPE - DIRECT

PLANE : 0-DEG 90-DEG  
SPACING CRITERIA : 1.23 1.22  
LUMINOUS LENGTH : 48.000 5.188

## LUMINANCE DATA IN CANDELA/SQ M

ANGLE IN DEG	AVERAGE 0-DEG	AVERAGE 45-DEG	AVERAGE 90-DEG
45	7615.	7588.	7536.
55	7250.	7217.	7185.
65	6849.	6790.	6761.
75	6325.	6277.	6277.
85	5785.	5714.	5785.



## 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	1360	1360	1360	1360	1360
2.5	1358	1358	1358	1359	1359
5.0	1353	1353	1353	1354	1354
7.5	1345	1345	1345	1345	1345
10.0	1334	1331	1332	1334	1331
12.5	1320	1314	1318	1320	1316
15.0	1301	1293	1299	1300	1294
17.5	1281	1270	1278	1277	1271
20.0	1257	1245	1252	1250	1244
22.5	1226	1214	1222	1221	1217
25.0	1193	1183	1192	1189	1185
27.5	1159	1149	1158	1154	1150
30.0	1123	1114	1120	1117	1114
32.5	1084	1076	1082	1078	1076
35.0	1043	1034	1039	1036	1034
37.5	1000	993	998	995	993
40.0	955	949	954	950	949
42.5	911	904	909	905	904
45.0	865	858	862	859	856
47.5	816	810	815	810	809
50.0	767	761	764	761	760
52.5	718	712	715	711	712
55.0	668	662	665	661	662
57.5	618	612	614	611	612
60.0	567	561	563	561	561
62.5	515	512	513	510	510
65.0	465	460	461	460	459
67.5	413	409	410	409	408
70.0	363	359	360	359	358
72.5	313	309	310	309	309
75.0	263	261	261	260	261
77.5	216	214	215	214	216
80.0	170	168	169	169	170
82.5	126	125	124	124	125
85.0	81	80	80	79	81
87.5	37	37	37	36	37
90.0	0	0	0	0	0



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5-DEGREE  
ZONAL LUMEN SUMMARY

0- 5	32
5- 10	96
10- 15	156
15- 20	210
20- 25	256
25- 30	292
30- 35	317
35- 40	332
40- 45	335
45- 50	328
50- 55	310
55- 60	283
60- 65	249
65- 70	207
70- 75	162
75- 80	115
80- 85	68
85- 90	21

10-DEGREE  
ZONAL LUMEN SUMMARY

0- 10	129
0- 20	494
0- 30	1042
0- 40	1691
0- 50	2354
0- 60	2947
0- 70	3403
0- 80	3680
0- 90	3769



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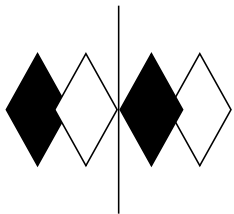
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# COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83
2	99	90	83	77	96	88	82	77	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	62	69	64	60	58
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43
6	70	56	47	41	68	56	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	29	27
10	53	40	32	26	52	39	32	26	38	31	26	37	31	26	36	30	26	24

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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