

REPORT NUMBER: ITL85128

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ISSUE DATE: 08/07/15

PREPARED FOR: FINELITE, INC.

CATALOG NUMBER: HP-4-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, 37.7 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

	0.0	22.5	45.0	67.5	90.0	
0	1442	1442	1442	1442	1442	
5	1434	1434	1433	1433	1434	136
15	1369	1360	1365	1364	1359	384
25	1241	1226	1232	1225	1219	566
35	1064	1053	1055	1043	1037	657
45	864	853	851	840	834	655
55	650	644	640	631	626	571
65	441	436	433	428	425	428
75	238	237	238	237	236	252
85	70	69	70	72	71	78
90	0	0	0	0	0	

## FLUX

## ZONAL LUMEN SUMMARY

ZONE	LUMENS	%FIXT
0- 30	1086	29.1
0- 40	1743	46.8
0- 60	2968	79.6
0- 90	3726	100.0
90-180	0	0.0
0-180	3726	100.0

EFFICACY (277V) = 98.8 lm/W

EFFICACY (120V) = 102.1 lm/W \*\*

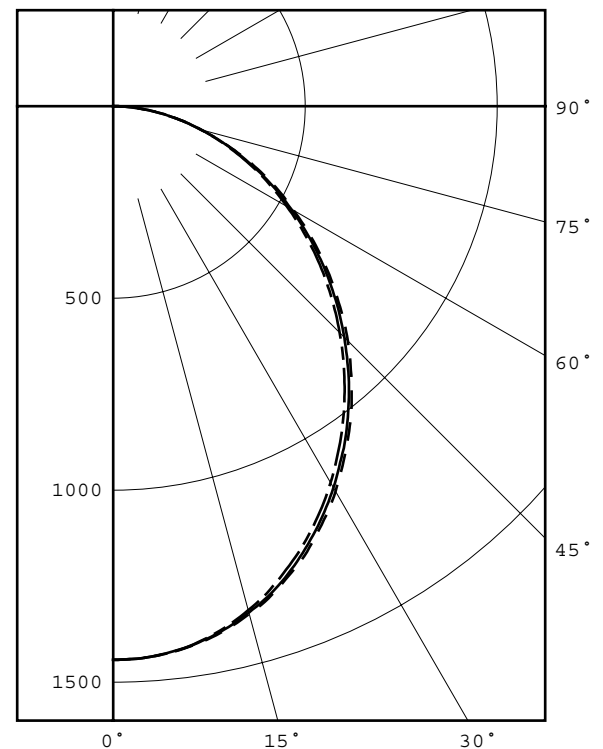
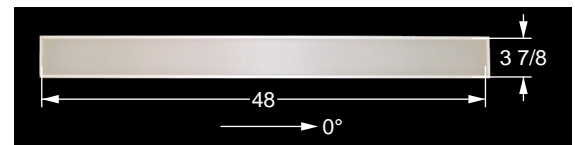
\*\* THE EFFICACY AT 120 VOLTS IS BASED ON THE LUMENS FROM THIS REPORT AND THE WATTAGE MEASURED AT 120 VOLTS FROM ITL REPORT NUMBER ITL85128-THD.

## CIE TYPE - DIRECT

PLANE	: 0-DEG	90-DEG
SPACING CRITERIA	: 1.20	1.17
LUMINOUS LENGTH	: 48.000	3.875

## LUMINANCE DATA IN CANDELA/SQ M

ANGLE IN DEG	AVERAGE 0-DEG	AVERAGE 45-DEG	AVERAGE 90-DEG
45	10182.	10029.	9829.
55	9444.	9298.	9095.
65	8696.	8538.	8380.
75	7663.	7663.	7599.
85	6693.	6693.	6789.



## 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	1442	1442	1442	1442	1442
2.5	1440	1440	1440	1440	1440
5.0	1434	1434	1433	1433	1434
7.5	1424	1423	1423	1422	1423
10.0	1410	1407	1408	1408	1406
12.5	1392	1385	1389	1388	1385
15.0	1369	1360	1365	1364	1359
17.5	1344	1332	1339	1336	1330
20.0	1312	1300	1307	1302	1295
22.5	1280	1264	1271	1265	1259
25.0	1241	1226	1232	1225	1219
27.5	1201	1187	1191	1182	1177
30.0	1158	1144	1147	1137	1132
32.5	1111	1100	1100	1091	1085
35.0	1064	1053	1055	1043	1037
37.5	1017	1005	1005	995	988
40.0	966	955	955	944	937
42.5	915	905	903	893	886
45.0	864	853	851	840	834
47.5	811	801	799	789	782
50.0	756	748	746	737	730
52.5	704	697	693	684	678
55.0	650	644	640	631	626
57.5	597	591	587	579	574
60.0	543	538	535	529	523
62.5	493	487	483	478	473
65.0	441	436	433	428	425
67.5	389	384	382	378	376
70.0	336	334	333	329	328
72.5	286	285	285	282	282
75.0	238	237	238	237	236
77.5	194	192	193	194	193
80.0	150	148	150	152	151
82.5	109	108	110	111	110
85.0	70	69	70	72	71
87.5	33	32	33	34	33
90.0	0	0	0	0	0



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5-DEGREE  
ZONAL LUMEN SUMMARY

0- 5	34
5- 10	102
10- 15	164
15- 20	220
20- 25	265
25- 30	300
30- 35	323
35- 40	334
40- 45	333
45- 50	322
50- 55	300
55- 60	271
60- 65	235
65- 70	193
70- 75	149
75- 80	103
80- 85	60
85- 90	19

10-DEGREE  
ZONAL LUMEN SUMMARY

0- 10	136
0- 20	520
0- 30	1086
0- 40	1743
0- 50	2397
0- 60	2968
0- 70	3396
0- 80	3648
0- 90	3726



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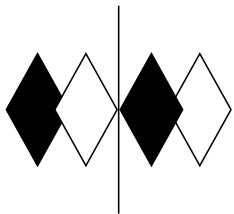
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# COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	100	96	106	102	98	94	98	94	91	94	91	89	90	88	86	84
2	99	91	84	78	96	89	83	77	85	80	76	82	78	74	79	76	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	66	62	59
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44
6	71	57	49	42	69	56	48	42	55	47	42	53	46	41	51	46	41	39
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28
10	54	41	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25

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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