

REPORT NUMBER: ITL85138

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ISSUE DATE: 08/15/15

PREPARED FOR: FINELITE, INC.

CATALOG NUMBER: HP-2-WW-D-FO-4ft-V-8-35

LUMINAIRE: FABRICATED WHITE PAINTED METAL HOUSING, EXTRUDED WHITE PAINTED METAL CIRCUIT BOARD MOUNT/REFLECTOR, 2 WHITE CIRCUIT BOARDS EACH WITH 40 LEDS, FROSTED HOLOGRAPHIC PLASTIC LENS. LENS FROSTED BOTH SIDES.  
LAMPS: EIGHTY WHITE LIGHT EMITTING DIODES (LEDS), TILTED 15-DEGREES FROM VERTICAL BASE-UP POSITION.

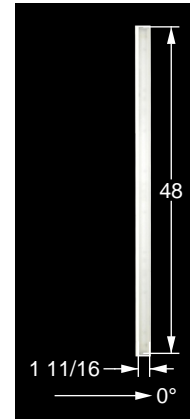
INPUT ELECTRICAL: 277.0 VOLTS, 21.2 WATTS, 0.0837 AMPS  
MOUNTING: SUSPENDED

LED DRIVER: OSRAM OT30W/PRG1050C/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	45.0	90.0	135.0	180.0	
0	836	836	836	836	836	
5	877	865	832	795	778	79
15	910	882	798	671	607	219
25	878	848	725	512	415	314
35	769	756	617	362	273	351
45	549	605	484	246	188	327
55	268	399	341	161	130	246
65	111	193	214	97	84	151
75	57	69	106	47	42	74
85	15	19	27	12	12	20
90	0	0	0	0	0	

ZONAL LUMEN SUMMARY		
ZONE	LUMENS	%FIXT
0- 30	611	34.3
0- 40	962	54.1
0- 60	1534	86.3
0- 90	1778	100.0
90-180	0	0.0
0-180	1778	100.0

EFFICACY (277V) = 83.9 lm/W

EFFICACY (120V) = 90.7 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 ITL85138-THD.

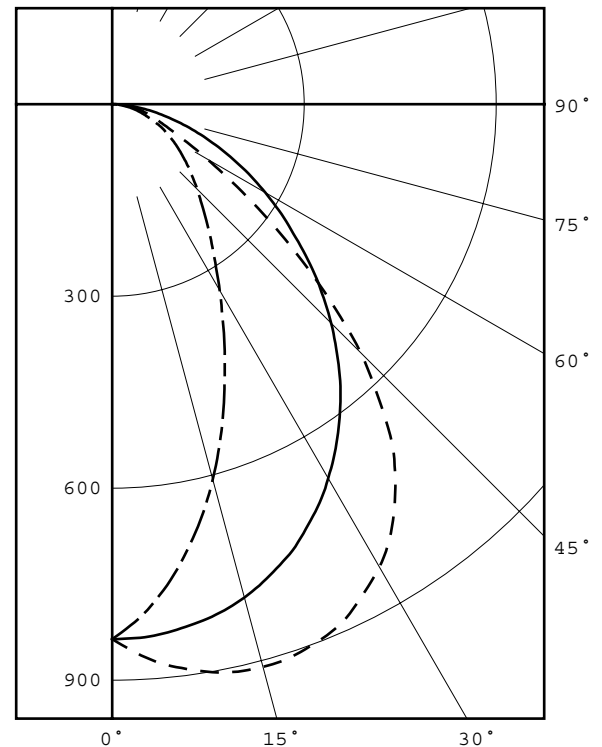
CIE TYPE - DIRECT

PLANE : 0-DEG 90-DEG 180-DEG

SPACING CRITERIA : 1.41 1.20 0.73

LUMINOUS LENGTH : 1.688 48.000

LUMINANCE DATA IN CANDELA/SQ M			
ANGLE IN DEG	AVERAGE 0-DEG	AVERAGE 90-DEG	AVERAGE 180-DEG
45	14857.	13098.	5088.
55	8941.	11377.	4337.
65	5026.	9690.	3803.
75	4214.	7837.	3105.
85	3293.	5928.	2635.



LEGEND:

0-deg -----  
90-deg =====  
180-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	112.5	135.0	157.5	180.0
0.0	836	836	836	836	836	836	836	836	836
2.5	858	857	853	845	835	825	817	811	810
5.0	877	875	865	851	832	812	795	782	778
7.5	890	888	875	854	826	796	769	749	741
10.0	901	897	880	852	819	777	740	710	699
12.5	908	903	883	850	810	755	708	670	655
15.0	910	905	882	843	798	730	671	625	607
17.5	909	904	879	835	783	703	635	581	558
20.0	902	897	872	823	766	675	595	534	508
22.5	893	887	862	810	748	645	555	487	459
25.0	878	873	848	794	725	613	512	441	415
27.5	857	854	831	775	702	580	473	399	373
30.0	835	830	810	753	675	546	433	360	336
32.5	806	804	785	730	647	512	396	325	302
35.0	769	770	756	704	617	478	362	294	273
37.5	726	732	724	675	586	445	329	266	248
40.0	676	686	689	644	553	411	299	241	225
42.5	612	633	648	610	518	379	272	219	205
45.0	549	573	605	574	484	349	246	199	188
47.5	473	507	558	535	448	318	223	180	171
50.0	399	438	507	496	413	289	201	164	157
52.5	330	373	454	454	376	261	180	149	143
55.0	268	308	399	413	341	234	161	135	130
57.5	214	250	344	371	309	208	144	122	118
60.0	171	197	290	330	276	184	127	110	106
62.5	137	156	239	290	245	159	112	98	95
65.0	111	125	193	252	214	138	97	86	84
67.5	92	101	153	214	185	117	83	75	72
70.0	78	83	118	179	157	98	71	63	60
72.5	67	69	91	146	131	80	59	52	51
75.0	57	58	69	114	106	63	47	43	42
77.5	47	47	53	85	83	47	37	35	34
80.0	38	38	41	59	63	34	28	27	26
82.5	28	28	29	37	44	21	19	19	18
85.0	15	16	19	21	27	13	12	12	12
87.5	8	9	9	9	12	5	5	5	5
90.0	0	0	0	0	0	0	0	0	0



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5-DEGREE  
ZONAL LUMEN SUMMARY

0- 5	20
5- 10	59
10- 15	94
15- 20	124
20- 25	148
25- 30	165
30- 35	175
35- 40	177
40- 45	170
45- 50	156
50- 55	135
55- 60	111
60- 65	86
65- 70	64
70- 75	45
75- 80	29
80- 85	15
85- 90	4

10-DEGREE  
ZONAL LUMEN SUMMARY

0- 10	79
0- 20	297
0- 30	611
0- 40	962
0- 50	1289
0- 60	1534
0- 70	1685
0- 80	1759
0- 90	1778



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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	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	89	86
2	101	94	88	83	99	92	86	82	88	84	80	85	81	78	82	79	76	74
3	93	84	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66	64
4	86	75	67	61	84	74	66	60	71	65	59	69	63	59	67	62	58	56
5	79	68	59	53	77	66	59	53	64	57	52	62	56	52	61	55	51	49
6	74	61	53	47	72	60	52	47	59	52	46	57	51	46	55	50	46	44
7	69	56	48	42	67	55	47	42	54	47	41	52	46	41	51	45	41	39
8	64	51	43	38	63	51	43	38	49	42	37	48	42	37	47	41	37	35
9	60	47	39	34	59	47	39	34	46	39	34	45	38	34	44	38	34	32
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	41	35	31	29

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.

NOTE: THE ZONAL CAVITY CALCULATION TECHNIQUE IS ACCURATE WHEN LUMINAIRES WITH SYMMETRIC CANDELA DISTRIBUTIONS ARE EMPLOYED AND WHEN THE LUMINAIRES ARE LOCATED SYMMETRICALLY THROUGHOUT THE ROOM. THIS UNIT HAS SPECIAL CHARACTERISTICS AND THEREFORE THESE COEFFICIENTS SHOULD BE USED WITH CAUTION.



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