

REPORT NUMBER: ITL85171

PAGE: 1 OF 5

ISSUE DATE: 09/16/15

PREPARED FOR: FINELITE, INC.

CATALOG NUMBER: S11-LED-MF-4ft-V-8-35

LUMINAIRE: BLACK PAINTED FLAT WOOD MOUNTING PLATFORM, FABRICATED METAL DRIVER HOUSING, 4 LED MODULES EACH ATTACHED TO PLATFORM WITH 2 SEMI-DIFFUSE METAL CLIPS, EACH LED MODULE CONSISTS OF: FABRICATED WHITE PAINTED METAL HOUSING, 1 WHITE CIRCUIT BOARD WITH 20 LEDs, FROSTED HOLOGRAPHIC FLAT PLASTIC LENS. LENS FROSTED SIDE OUT.

LAMPS: EIGHTY WHITE LIGHT EMITTING DIODES (LEDs), TILTED 30-DEGREES FROM VERTICAL BASE-DOWN POSITION.

INPUT ELECTRICAL: 277.0 VOLTS, 21.2 WATTS, 0.0828 AMPS

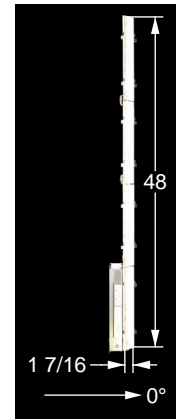
MOUNTING: SURFACE

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	0	0	0	0	0	0
5	0	0	0	0	0	0
15	0	0	0	0	0	0
25	0	0	0	0	0	0
35	0	0	0	0	0	0
45	0	0	0	0	0	0
55	0	0	0	0	0	0
65	18	0	0	0	0	3
75	77	29	0	0	0	18
85	174	106	0	0	0	53
90	236	161	0	0	0	
95	316	226	25	0	0	113
105	506	374	103	0	0	192
115	691	533	208	15	0	273
125	823	672	334	75	28	337
135	900	774	468	174	91	368
145	935	840	592	303	200	359
155	939	875	694	463	362	308
165	914	875	763	625	562	211
175	852	836	796	754	738	75
180	800	800	800	800	800	

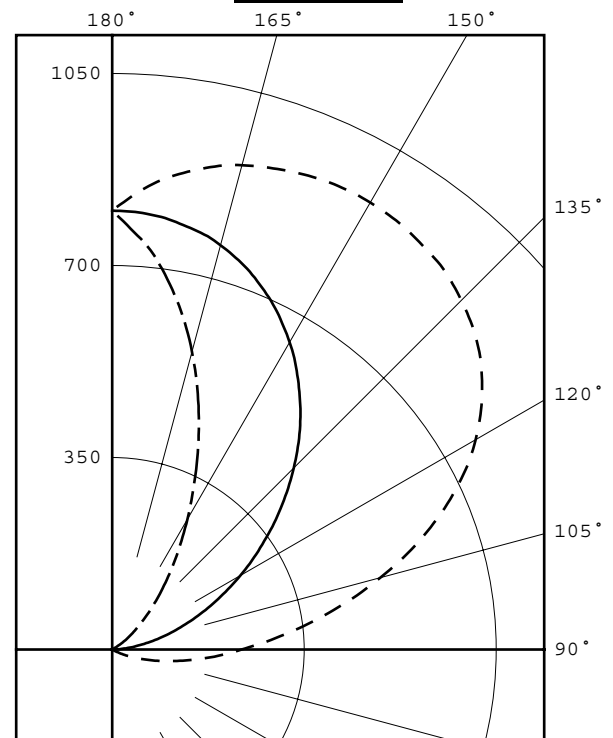
ZONAL LUMEN SUMMARY		
ZONE	LUMENS	%FIXT
0- 30	0	0.0
0- 40	0	0.0
0- 60	0	0.0
0- 90	74	3.2
90-120	578	25.0
90-130	915	39.6
90-150	1642	71.1
90-180	2236	96.8
0-180	2311	100.0

EFFICACY (277V) = 109.0 lm/W

EFFICACY (120V) = 117.9 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 ITL85171-THD.

CIE TYPE - INDIRECT



LEGEND:
0-deg -----
90-deg =====
180-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	112.5	135.0	157.5	180.0
0.0	0	0	0	0	0	0	0	0	0
5.0	0	0	0	0	0	0	0	0	0
10.0	0	0	0	0	0	0	0	0	0
15.0	0	0	0	0	0	0	0	0	0
20.0	0	0	0	0	0	0	0	0	0
25.0	0	0	0	0	0	0	0	0	0
30.0	0	0	0	0	0	0	0	0	0
35.0	0	0	0	0	0	0	0	0	0
40.0	0	0	0	0	0	0	0	0	0
45.0	0	0	0	0	0	0	0	0	0
50.0	0	0	0	0	0	0	0	0	0
55.0	0	0	0	0	0	0	0	0	0
60.0	0	0	0	0	0	0	0	0	0
65.0	18	10	0	0	0	0	0	0	0
70.0	41	32	7	0	0	0	0	0	0
75.0	77	62	29	0	0	0	0	0	0
80.0	120	104	63	8	0	0	0	0	0
85.0	174	155	106	35	0	0	0	0	0
90.0	236	218	161	73	0	0	0	0	0
95.0	316	294	226	121	25	0	0	0	0
100.0	408	380	298	176	59	0	0	0	0
105.0	506	472	374	237	103	12	0	0	0
110.0	603	564	454	302	152	41	0	0	0
115.0	691	648	533	370	208	80	15	0	0
120.0	765	722	606	439	270	128	40	12	3
125.0	823	783	672	507	334	178	75	37	28
130.0	869	831	729	571	401	235	121	67	54
135.0	900	867	774	629	468	296	174	109	91
140.0	923	895	811	681	533	361	234	160	139
145.0	935	911	840	724	592	429	303	223	200
150.0	941	921	862	761	647	499	380	298	274
155.0	939	923	875	789	694	568	463	385	362
160.0	929	917	880	811	733	631	546	481	461
165.0	914	903	875	823	763	687	625	575	562
170.0	888	879	860	826	783	734	695	663	656
175.0	852	847	836	818	796	773	754	739	738
180.0	800	800	800	800	800	800	800	800	800



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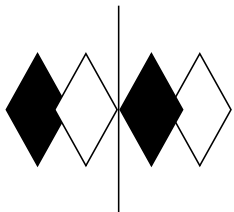
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5-DEGREE
ZONAL LUMEN SUMMARY

0- 5	0
5- 10	0
10- 15	0
15- 20	0
20- 25	0
25- 30	0
30- 35	0
35- 40	0
40- 45	0
45- 50	0
50- 55	0
55- 60	0
60- 65	0
65- 70	2
70- 75	6
75- 80	12
80- 85	21
85- 90	32
90- 95	47
95-100	66
100-105	86
105-110	107
110-115	127
115-120	146
120-125	162
125-130	175
130-135	183
135-140	185
140-145	183
145-150	176
150-155	163
155-160	145
160-165	120
165-170	90
170-175	56
175-180	19

10-DEGREE
ZONAL LUMEN SUMMARY

0- 10	0
0- 20	0
0- 30	0
0- 40	0
0- 50	0
0- 60	0
0- 70	3
0- 80	21
0- 90	74
0-100	187
0-110	380
0-120	652
0-130	989
0-140	1357
0-150	1717
0-160	2025
0-170	2235
0-180	2311



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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	96	96	96	96	83	83	83	83	57	57	57	34	34	34	13	13	13	3
1	86	82	78	74	74	70	67	64	49	47	45	29	27	26	10	10	9	1
2	78	71	65	60	67	61	56	52	42	39	36	25	23	22	9	8	7	0
3	71	62	55	50	61	54	48	43	37	33	30	22	20	18	7	7	6	0
4	65	55	47	42	55	47	41	36	33	29	26	19	17	15	7	6	5	0
5	59	49	41	35	51	42	35	31	29	25	22	17	15	13	6	5	4	0
6	55	43	36	30	46	37	31	26	26	22	19	15	13	11	5	4	4	0
7	50	39	31	26	43	33	27	23	23	19	16	14	11	10	5	4	3	0
8	46	35	28	23	40	30	24	20	21	17	14	12	10	8	4	3	3	0
9	43	32	25	20	37	27	21	17	19	15	12	11	9	7	4	3	2	0
10	40	29	22	17	34	25	19	15	17	13	11	10	8	7	4	3	2	0

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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