

REPORT NUMBER: ITL85168

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ISSUE DATE: 09/14/15

PREPARED FOR: FINELITE, INC.

CATALOG NUMBER: S18-LED-ID-DCO-4ft-2E-V-8-35-OPEN

LUMINAIRE: FABRICATED METAL HOUSING WITH WHITE PAINTED GENERAL INTERIOR FINISH, WHITE PAINTED FLAT METAL END CAPS, 2 FORMED WHITE PAINTED METAL OUTBOARD REFLECTORS/DRIVER COVERS, 2 WHITE CIRCUIT BOARDS EACH WITH 80 LEDS, TRANSLUCENT WHITE HOLOGRAPHIC BOTTOM LENS. OPEN TOP.  
LAMPS: ONE HUNDRED SIXTY WHITE LIGHT EMITTING DIODES (LEDs), AIMED AT THE HORIZON.

INPUT ELECTRICAL: 277.0 VOLTS, 38.1 WATTS, 0.145 AMPS

MOUNTING: SUSPENDED

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	97	97	97	97	97	
5	96	96	96	96	96	9
15	93	93	94	94	94	26
25	86	86	87	88	88	40
35	76	76	78	78	78	48
45	64	64	65	66	65	50
55	50	50	51	51	50	45
65	34	34	35	34	34	34
75	18	19	19	18	18	20
85	4	5	5	4	4	5
90	0	0	0	0	0	
95	46	331	637	679	576	404
105	139	461	743	926	992	710
115	235	515	836	1007	1059	743
125	323	544	850	1038	1091	702
135	398	557	815	981	1041	595
145	459	555	759	892	935	456
155	502	547	676	773	809	308
165	530	539	592	637	656	169
175	543	543	544	548	549	53
180	544	544	544	544	544	

#### ZONAL LUMEN SUMMARY

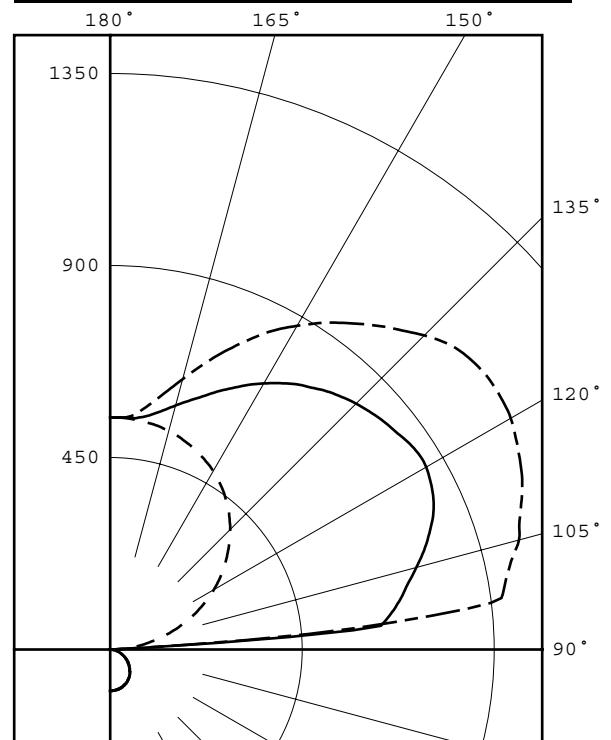
ZONE	LUMENS	%FIXT
0- 30	76	1.7
0- 40	124	2.8
0- 60	219	5.0
0- 90	278	6.3
90-120	1858	42.1
90-130	2559	57.9
90-150	3610	81.7
90-180	4138	93.7
0-180	4416	100.0

EFFICACY (277V) = 115.9 lm/W

EFFICACY (120V) = 118.7 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 ITL85168-THD.

CIE TYPE - INDIRECT



#### LEGEND:

0-deg ---  
45-deg ---  
90-deg ---

Checked M KLOPF  
Approved R BEATTIE  
Lighting Engineer



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PLANE : 0-DEG 90-DEG  
LUMINOUS LENGTH : 44.500 1.250

LUMINANCE DATA IN CANDELA/SQ M				
ANGLE	AVERAGE	AVERAGE	AVERAGE	
IN DEG	0-DEG	45-DEG	90-DEG	
45	2522.	2561.	2561.	
55	2429.	2478.	2429.	
65	2242.	2308.	2242.	
75	1938.	2046.	1938.	
85	1279.	1599.	1279.	



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CANDELA DISTRIBUTION  
LATERAL ANGLE

	0.0	22.5	45.0	67.5	90.0
0.0	97	97	97	97	97
5.0	96	96	96	96	96
10.0	95	95	95	96	96
15.0	93	93	94	94	94
20.0	90	90	91	91	91
25.0	86	86	87	88	88
30.0	82	81	83	84	83
35.0	76	76	78	78	78
40.0	70	70	72	72	72
45.0	64	64	65	66	65
50.0	57	57	58	58	58
55.0	50	50	51	51	50
60.0	42	42	43	43	42
65.0	34	34	35	34	34
70.0	26	27	27	26	26
75.0	18	19	19	18	18
80.0	11	12	11	11	11
85.0	4	5	5	4	4
90.0	0	0	0	0	0
95.0	46	331	637	679	576
100.0	91	403	692	880	942
105.0	139	461	743	926	992
110.0	188	497	796	967	1026
115.0	235	515	836	1007	1059
120.0	281	530	855	1032	1084
125.0	323	544	850	1038	1091
130.0	361	552	834	1022	1080
135.0	398	557	815	981	1041
140.0	431	558	790	940	989
145.0	459	555	759	892	935
150.0	483	551	720	836	876
155.0	502	547	676	773	809
160.0	518	542	631	705	733
165.0	530	539	592	637	656
170.0	538	540	559	581	591
175.0	543	543	544	548	549
180.0	544	544	544	544	544



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5-DEGREE  
ZONAL LUMEN SUMMARY

0- 5	2
5- 10	7
10- 15	11
15- 20	15
20- 25	19
25- 30	21
30- 35	24
35- 40	25
40- 45	25
45- 50	25
50- 55	23
55- 60	21
60- 65	19
65- 70	15
70- 75	12
75- 80	8
80- 85	4
85- 90	1
90- 95	91
95-100	313
100-105	347
105-110	363
110-115	372
115-120	371
120-125	361
125-130	341
130-135	314
135-140	281
140-145	246
145-150	210
150-155	172
155-160	135
160-165	100
165-170	68
170-175	40
175-180	13

10-DEGREE  
ZONAL LUMEN SUMMARY

0- 10	9
0- 20	36
0- 30	76
0- 40	124
0- 50	174
0- 60	219
0- 70	253
0- 80	273
0- 90	278
0-100	682
0-110	1392
0-120	2135
0-130	2837
0-140	3432
0-150	3887
0-160	4195
0-170	4364
0-180	4416



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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	97	97	97	97	84	84	84	84	59	59	59	37	37	37	16	16	16	6
1	88	84	80	77	76	73	70	67	51	50	48	32	31	30	14	14	13	5
2	80	73	68	63	69	63	59	55	45	42	40	28	26	25	12	12	11	4
3	73	64	57	52	63	56	50	46	40	36	33	25	23	21	11	10	9	4
4	66	57	49	44	57	49	43	38	35	31	28	22	20	18	10	9	8	3
5	61	50	43	37	52	43	37	33	31	27	24	19	17	15	9	8	7	3
6	56	45	37	32	48	39	33	28	28	24	21	17	15	13	8	7	6	2
7	51	40	33	27	44	35	29	24	25	21	18	16	13	11	7	6	5	2
8	47	36	29	24	41	31	25	21	22	18	16	14	12	10	6	5	5	2
9	44	33	26	21	38	28	23	19	20	16	14	13	11	9	6	5	4	2
10	41	30	23	18	35	26	20	16	19	15	12	12	9	8	5	4	4	2

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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