

REPORT NUMBER: ITL85169

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ISSUE DATE: 09/15/15

PREPARED FOR: FINELITE, INC.

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

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, FROSTED HOLOGRAPHIC FLAT TOP LENS, TRANSLUCENT WHITE HOLOGRAPHIC BOTTOM LENS. TOP LENS FROSTED SIDE UP.

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

	0.0	22.5	45.0	67.5	90.0	FLUX
0	145	145	145	145	145	
5	144	144	144	144	144	14
15	139	139	140	140	140	39
25	129	128	130	130	130	60
35	114	113	115	115	115	72
45	96	95	96	96	96	74
55	74	74	74	74	74	66
65	51	51	50	50	50	50
75	27	27	27	26	26	28
85	6	7	6	6	6	7
90	0	0	0	0	0	
95	39	50	64	78	85	72
105	157	204	270	317	335	276
115	305	399	542	638	665	509
125	449	571	776	911	953	658
135	568	681	892	1037	1087	661
145	656	731	900	1025	1066	551
155	714	753	857	940	969	393
165	748	761	803	838	853	228
175	763	765	770	774	775	74
180	765	765	765	765	765	

ZONAL LUMEN SUMMARY

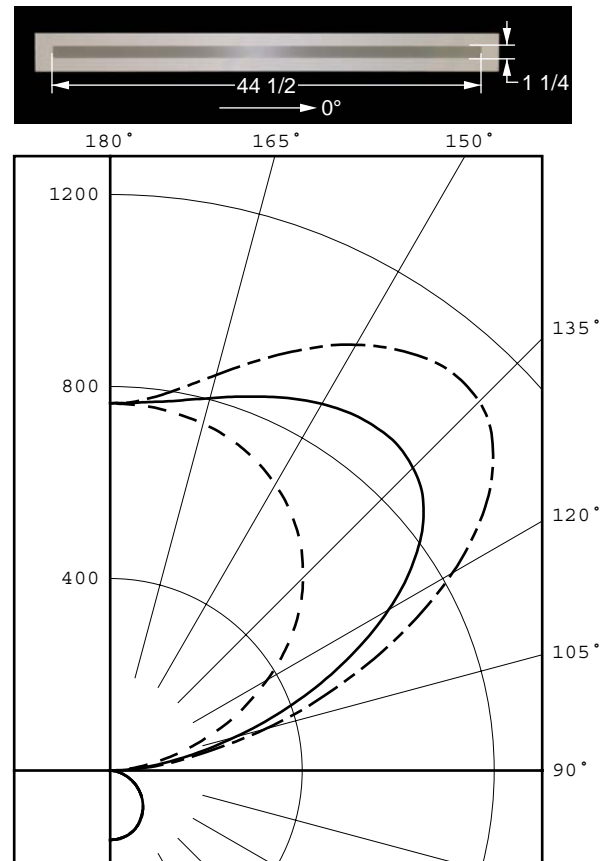
ZONE	LUMENS	%FIXT
0- 30	113	2.9
0- 40	184	4.8
0- 60	324	8.5
0- 90	409	10.7
90-120	857	22.4
90-130	1515	39.5
90-150	2727	71.2
90-180	3422	89.3
0-180	3831	100.0

EFFICACY (277V) = 100.6 lm/W

EFFICACY (120V) = 103.0 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 ITL85169-THD.

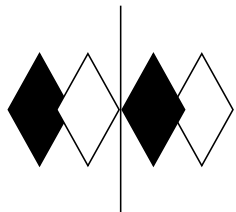
CIE TYPE - SEMI-INDIRECT



LEGEND:

0-deg -----
45-deg =====
90-deg -.-.-.-.-

Checked M KLOPF
Approved R BEATTIE
Lighting Engineer



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INDEPENDENT TESTING LABORATORIES, INC.
4066 CAMELOT CIRCLE, LONGMONT, CO 80504 USA

PHONE: (303) 442-1255 • FAX: (970) 535-3114 • E-MAIL: itl@itlboulder.com • WEBSITE: www.itlboulder.com

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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	3783.	3783.	3783.	
55	3595.	3595.	3595.	
65	3363.	3297.	3297.	
75	2907.	2907.	2799.	
85	1918.	1918.	1918.	



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CANDELA DISTRIBUTION
LATERAL ANGLE

	0.0	22.5	45.0	67.5	90.0
0.0	145	145	145	145	145
5.0	144	144	144	144	144
10.0	142	142	142	143	143
15.0	139	139	140	140	140
20.0	135	134	136	136	135
25.0	129	128	130	130	130
30.0	122	121	123	123	123
35.0	114	113	115	115	115
40.0	105	104	106	106	106
45.0	96	95	96	96	96
50.0	85	84	85	85	85
55.0	74	74	74	74	74
60.0	63	62	63	62	62
65.0	51	51	50	50	50
70.0	39	39	39	38	37
75.0	27	27	27	26	26
80.0	16	16	16	15	15
85.0	6	7	6	6	6
90.0	0	0	0	0	0
95.0	39	50	64	78	85
100.0	92	119	154	176	184
105.0	157	204	270	317	335
110.0	230	302	405	474	496
115.0	305	399	542	638	665
120.0	378	492	670	789	824
125.0	449	571	776	911	953
130.0	513	634	852	995	1041
135.0	568	681	892	1037	1087
140.0	617	713	906	1045	1092
145.0	656	731	900	1025	1066
150.0	688	744	882	987	1024
155.0	714	753	857	940	969
160.0	734	758	829	888	910
165.0	748	761	803	838	853
170.0	757	764	782	799	806
175.0	763	765	770	774	775
180.0	765	765	765	765	765



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5-DEGREE
ZONAL LUMEN SUMMARY

0- 5	3
5- 10	10
10- 15	17
15- 20	23
20- 25	28
25- 30	32
30- 35	35
35- 40	37
40- 45	37
45- 50	37
50- 55	35
55- 60	31
60- 65	27
65- 70	22
70- 75	17
75- 80	11
80- 85	6
85- 90	1
90- 95	16
95-100	56
100-105	108
105-110	168
110-115	228
115-120	281
120-125	319
125-130	339
130-135	339
135-140	322
140-145	294
145-150	257
150-155	217
155-160	175
160-165	134
165-170	94
170-175	55
175-180	18

10-DEGREE
ZONAL LUMEN SUMMARY

0- 10	14
0- 20	53
0- 30	113
0- 40	184
0- 50	258
0- 60	324
0- 70	374
0- 80	402
0- 90	409
0-100	481
0-110	757
0-120	1267
0-130	1924
0-140	2586
0-150	3137
0-160	3529
0-170	3757
0-180	3831



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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

EFFECTIVE FLOOR CAVITY REFLECTANCE 0.20

RC RW	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	98	98	98	98	85	85	85	85	61	61	61	40	40	40	20	20	20	11
1	89	85	81	78	77	74	71	68	54	52	50	35	34	33	18	17	17	9
2	81	74	68	63	70	65	60	56	47	44	41	31	29	27	15	15	14	7
3	74	65	58	53	64	57	51	47	41	38	35	27	25	23	14	13	12	6
4	67	57	50	44	58	50	44	39	36	32	29	24	21	20	12	11	10	5
5	62	51	43	38	53	44	38	33	32	28	25	21	19	17	11	10	9	5
6	56	45	38	32	49	40	33	29	29	25	21	19	16	14	10	9	8	4
7	52	41	33	28	45	36	29	25	26	22	19	17	15	13	9	8	7	4
8	48	37	29	24	42	32	26	22	24	19	16	16	13	11	8	7	6	3
9	45	33	26	21	39	29	23	19	21	17	14	14	12	10	7	6	5	3
10	41	30	23	19	36	26	21	17	20	16	13	13	10	9	7	6	5	3

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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ADDRESS: 30500 WHIPPLE ROAD
UNION CITY, CA 94587

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