

REPORT NUMBER: ITL87818

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ISSUE DATE: 07/15/16

PREPARED FOR: FINELITE, INC.

CATALOG NUMBER: S12-LED-ID-DCO-4FT-2E-V-8-35-TDO

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, FORMED WHITE PAINTED METAL TOP REFLECTOR.

LAMPS: ONE HUNDRED SIXTY WHITE LIGHT EMITTING DIODES (LEDs), AIMED 3-DEGREES ABOVE THE HORIZON.

INPUT ELECTRICAL: 277.0 VOLTS, 37.9 WATTS, 0.144 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.

TOTAL REFLECTANCE OF PAINT = 89.0 % (TOP REFLECTOR)

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	1112	1112	1112	1112	1112	
5	1108	1108	1108	1109	1109	105
15	1066	1062	1071	1074	1073	302
25	978	974	990	999	999	455
35	858	857	876	888	891	547
45	713	714	732	746	750	564
55	549	553	568	579	582	506
65	374	378	387	397	399	383
75	200	203	211	222	229	226
85	49	54	71	87	94	81
90	0	13	30	43	49	
95	0	0	8	19	19	12
105	0	0	1	1	1	1
115	0	1	1	2	1	1
125	1	1	2	2	2	1
135	2	2	2	2	2	2
145	2	2	2	2	3	1
155	2	2	2	2	2	1
165	2	2	2	2	2	1
175	2	2	2	2	2	0
180	2	2	2	2	2	

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%FIXT
0- 30	862	27.0
0- 40	1409	44.2
0- 60	2478	77.7
0- 90	3168	99.4
90-120	13	0.4
90-130	15	0.5
90-150	18	0.6
90-180	19	0.6
0-180	3187	100.0

EFFICACY (277V) = 84.1 lm/W

EFFICACY (120V) = 85.9 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 ITL87814-THD.

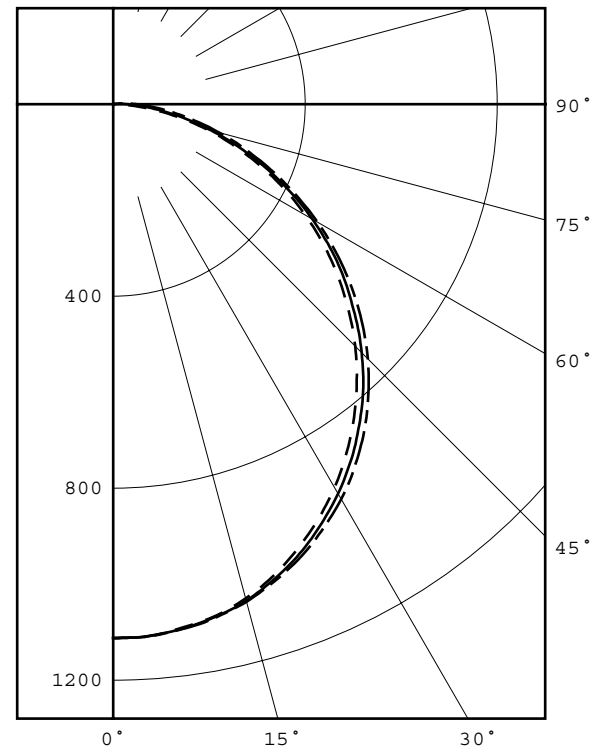
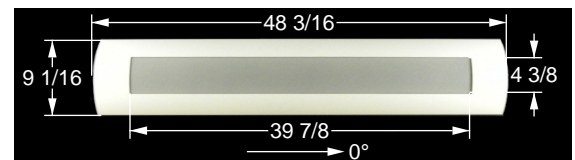
CIE TYPE - DIRECT

PLANE : 0-DEG 90-DEG

SPACING CRITERIA : 1.23 1.27

BEAM ANGLE (50%) : 109.2 X 112.9 DEGREES

FIELD ANGLE (10%) : 161.1 X 166.9 DEGREES



LEGEND:

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

Checked J. VILLANUEVA

Approved R. BEATTIE
Lighting Engineer



INDEPENDENT TESTING LABORATORIES, INC.
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LUMINANCE DATA IN CANDELA/SQ M			
ANGLE	AVERAGE	AVERAGE	AVERAGE
IN DEG	0-DEG	45-DEG	90-DEG
45	8956.	9195.	9421.
55	8501.	8795.	9012.
65	7866.	8139.	8391.
75	6858.	7236.	7733.
85	4997.	5644.	6200.



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CANDELA DISTRIBUTION LATERAL ANGLE

	0.0	22.5	45.0	67.5	90.0
0.0	1112	1112	1112	1112	1112
5.0	1108	1108	1108	1109	1109
10.0	1092	1091	1094	1095	1096
15.0	1066	1062	1071	1074	1073
20.0	1027	1021	1035	1042	1040
25.0	978	974	990	999	999
30.0	922	919	937	948	950
35.0	858	857	876	888	891
40.0	788	789	808	820	824
45.0	713	714	732	746	750
50.0	632	635	650	664	669
55.0	549	553	568	579	582
60.0	462	467	479	489	492
65.0	374	378	387	397	399
70.0	284	288	297	306	310
75.0	200	203	211	222	229
80.0	119	121	134	146	153
85.0	49	54	71	87	94
90.0	0	13	30	43	49
95.0	0	0	8	19	19
100.0	0	0	1	2	2
105.0	0	0	1	1	1
110.0	0	0	1	1	1
115.0	0	1	1	2	1
120.0	1	1	2	2	1
125.0	1	1	2	2	2
130.0	1	2	2	2	2
135.0	2	2	2	2	2
140.0	2	2	2	2	2
145.0	2	2	2	2	3
150.0	2	2	2	2	3
155.0	2	2	2	2	2
160.0	2	2	2	2	2
165.0	2	2	2	2	2
170.0	2	2	2	2	2
175.0	2	2	2	2	2
180.0	2	2	2	2	2



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5-DEGREE
ZONAL LUMEN SUMMARY

0- 5	27
5- 10	79
10- 15	128
15- 20	173
20- 25	212
25- 30	243
30- 35	266
35- 40	280
40- 45	285
45- 50	279
50- 55	264
55- 60	241
60- 65	210
65- 70	173
70- 75	133
75- 80	92
80- 85	55
85- 90	26
90- 95	9
95-100	2
100-105	0
105-110	0
110-115	0
115-120	1
120-125	1
125-130	1
130-135	1
135-140	1
140-145	1
145-150	1
150-155	1
155-160	0
160-165	0
165-170	0
170-175	0
175-180	0

10-DEGREE
ZONAL LUMEN SUMMARY

0- 10	105
0- 20	407
0- 30	862
0- 40	1409
0- 50	1972
0- 60	2478
0- 70	2861
0- 80	3087
0- 90	3168
0-100	3179
0-110	3180
0-120	3181
0-130	3183
0-140	3184
0-150	3186
0-160	3186
0-170	3187
0-180	3187



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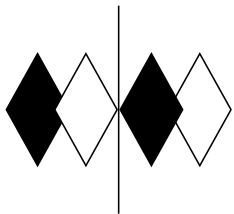
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	101	101	101	99
1	108	103	99	95	106	101	97	93	97	93	90	93	90	87	89	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	61	56	51	49
5	75	62	53	47	73	61	53	46	59	52	46	57	50	45	55	49	45	43
6	70	56	47	41	68	55	47	41	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	35	47	40	35	46	40	35	33
8	60	47	38	32	59	46	38	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

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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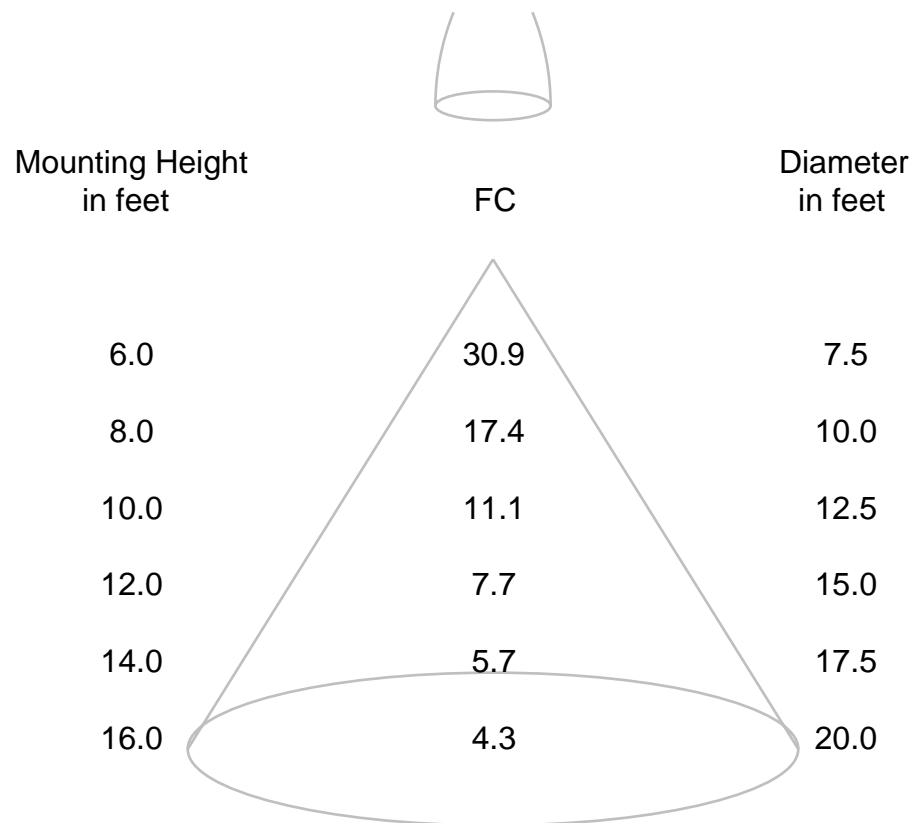
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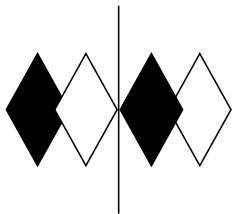
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CONE OF LIGHT DIAGRAM

(diameter shown is where fc value is half the fc at nadir)



Note: The candela values used to generate this diagram were obtained by averaging the photometric data into a single plane.



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