

REPORT NUMBER: ITL88167-GONIOPHOTOMETRY
ISSUE DATE: 09/22/16
PREPARED FOR: OXYGEN LIGHTING
CATALOG NUMBER: 3-564

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LUMINAIRE: FABRICATED SPECULAR METAL MOUNTING PLATE, FABRICATED SEMI-SPECULAR METAL DRIVER COVER, 1 WHITE CIRCUIT BOARD WITH 24 LEDS, WHITE PLASTIC DIFFUSER WITH WHITE CLOTH COVERED EXTERIOR, TRANSLUCENT WHITE ACRYLIC TOP AND BOTTOM DIFFUSER END CAPS.

LAMPS: TWENTY-FOUR WHITE LIGHT EMITTING DIODES (LEDS), AIMED AT THE HORIZON.

INPUT ELECTRICAL: 120.0 VOLTS, 10.4 WATTS, 0.0940 AMPS

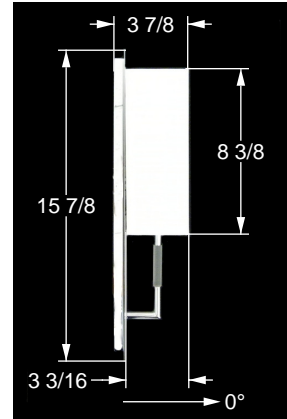
MOUNTING: WALL

LED DRIVER: L.T.F. DA12W350C1834D010-0000, DRIVER HAS MULTIPLE LEADS, ONLY LINE INPUT AND LED OUTPUT LEADS CONNECTED FOR THIS TEST.

NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED AT RATED INPUT VOLTAGE (120VAC, 60Hz) TO THE DRIVER. DIFFUSER MATERIAL INFORMATION PROVIDED BY CLIENT.

TEST PROCEDURE: IESNA LM-79-08

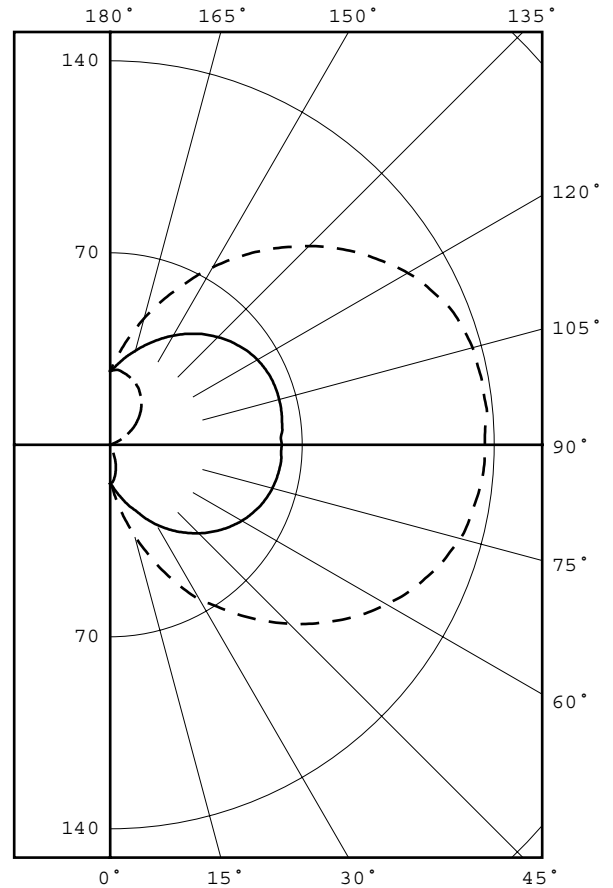
TEST DISTANCE = 20.0 FEET



CANDELA DISTRIBUTION

	0.0	45.0	90.0	135.0	180.0	
0	14	14	14	14	14	
5	18	18	16	15	13	2
15	34	31	22	15	8	6
25	55	48	29	16	0	14
35	74	64	38	20	0	25
45	92	81	46	25	0	39
55	109	95	53	29	0	53
65	123	108	58	33	0	65
75	132	118	61	36	0	75
85	136	122	63	37	0	80
90	137	122	63	37	0	
95	138	122	63	37	0	80
105	137	122	64	37	0	78
115	131	116	63	38	4	71
125	118	105	60	38	10	61
135	102	92	56	38	15	48
145	84	77	49	36	20	34
155	65	61	42	34	24	21
165	48	46	36	32	26	11
175	33	32	29	29	27	3
180	27	27	27	27	27	

FLUX



LEGEND:
0-deg - - - - -
90-deg = = = = =
180-deg - - - - -

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%FIXT
0- 30	22	2.9
0- 40	48	6.2
0- 60	139	18.1
0- 90	359	46.9
90-120	229	29.9
90-130	290	37.8
90-150	372	48.5
90-180	407	53.1
0-180	766	100.0

EFFICACY = 73.7 lm/W

CIE TYPE - GENERAL DIFFUSE

PLANE	0-DEG	90-DEG	180-DEG
SPACING CRITERIA	4.81	3.42	0.54
BEAM ANGLE (50%)	119.9 X	N/A	DEGREES
FIELD ANGLE (10%)	229.0 X	N/A	DEGREES

Checked J. VILLANUEVA
Approved R. BEATTIE
Lighting Engineer



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LUMINANCE DATA IN CANDELA/SQ M

ANGLE IN DEG	AVERAGE 0-DEG	AVERAGE 45-DEG	AVERAGE 90-DEG
45	3750.	2902.	2465.
55	4154.	3185.	2729.
65	4524.	3459.	2981.
75	4868.	3719.	3230.
85	5166.	3934.	3490.



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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	14	14	14	14	14	14	14	14	14
5.0	18	18	18	16	16	16	15	14	13
10.0	26	26	24	21	19	18	15	12	11
15.0	34	34	31	26	22	20	15	10	8
20.0	44	44	40	32	25	22	16	9	4
25.0	55	54	48	37	29	25	16	7	0
30.0	65	64	56	44	34	28	18	7	0
35.0	74	73	64	50	38	32	20	8	0
40.0	83	82	73	56	42	35	22	9	0
45.0	92	91	81	62	46	39	25	10	0
50.0	101	100	88	67	49	44	27	10	0
55.0	109	109	95	72	53	45	29	11	0
60.0	116	116	102	77	55	48	31	12	0
65.0	123	123	108	81	58	50	33	13	0
70.0	128	128	114	85	60	52	34	13	0
75.0	132	133	118	88	61	53	36	14	0
80.0	134	136	120	90	62	54	36	14	0
85.0	136	138	122	91	63	54	37	15	0
90.0	137	138	122	91	63	54	37	15	0
95.0	138	139	122	92	63	55	37	14	0
100.0	138	139	123	92	64	55	37	14	0
105.0	137	138	122	91	64	55	37	14	0
110.0	135	135	119	90	64	55	37	15	0
115.0	131	131	116	88	63	55	38	17	4
120.0	125	126	111	85	62	54	38	19	7
125.0	118	119	105	82	60	53	38	21	10
130.0	111	111	98	78	58	52	38	23	13
135.0	102	103	92	73	56	50	38	24	15
140.0	94	94	85	68	53	48	37	25	18
145.0	84	85	77	63	49	45	36	26	20
150.0	75	75	69	57	46	42	35	27	22
155.0	65	66	61	52	42	40	34	28	24
160.0	56	57	53	46	39	37	33	28	25
165.0	48	48	46	41	36	35	32	28	26
170.0	40	40	39	36	32	32	30	28	27
175.0	33	33	32	31	29	29	29	28	27
180.0	27	27	27	27	27	27	27	27	27



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5-DEGREE
ZONAL LUMEN SUMMARY

Table with 2 columns: Zonal Range and Lumen Value. Rows range from 0-5 to 175-180.

10-DEGREE
ZONAL LUMEN SUMMARY

Table with 2 columns: Zonal Range and Lumen Value. Rows range from 0-10 to 0-180.



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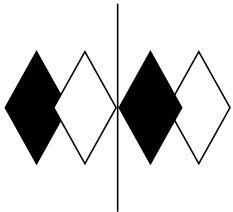
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	106	106	106	106	98	98	98	98	82	82	82	67	67	67	53	53	53	47
1	92	85	79	74	83	78	72	68	64	60	56	51	48	45	39	36	34	28
2	81	71	63	56	74	65	58	51	53	47	42	41	37	33	31	28	25	20
3	73	61	52	44	66	55	47	41	45	38	33	35	30	26	26	22	19	14
4	66	53	43	36	60	48	40	33	39	32	27	30	25	21	22	18	15	11
5	60	46	37	30	54	42	34	27	34	27	22	26	21	17	19	15	12	9
6	55	41	32	25	50	37	29	23	30	24	19	24	18	14	17	13	10	7
7	51	37	28	21	46	33	25	20	27	21	16	21	16	12	16	12	9	6
8	47	33	24	19	42	30	22	17	24	18	14	19	14	11	14	10	7	5
9	43	30	22	16	39	27	20	15	22	16	12	17	13	9	13	9	6	4
10	40	27	19	14	37	25	18	13	20	14	10	16	11	8	12	8	6	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.

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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