

REPORT NUMBER: ITL87368-GONIOPHOTOMETRY
ISSUE DATE: 05/05/16
PREPARED FOR: OXYGEN LIGHTING
CATALOG NUMBER: 3-532

PAGE: 1 OF 6

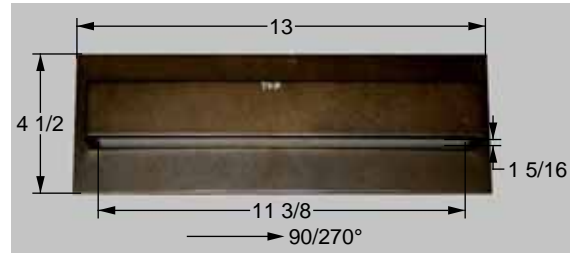
LUMINAIRE: FABRICATED BROWN PAINTED METAL WALL MOUNTING PLATE AND HOUSING WITH TOP AND BOTTOM APERTURE, WHITE PAINTED FLAT METAL CIRCUIT BOARD MOUNT, 1 WHITE CIRCUIT BOARD WITH 36 LEDS, FROSTED TRANSLUCENT WHITE ACRYLIC TOP AND BOTTOM DIFFUSERS. DIFFUSERS FROSTED SIDE OUT.
LAMPS: THIRTY-SIX WHITE LIGHT EMITTING DIODES (LEDS), AIMED AT THE HORIZON.

INPUT ELECTRICAL: 120.0 VOLTS, 7.48 WATTS, 0.0682 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. ACRYLIC MATERIAL INFORMATION PROVIDED BY CLIENT.

TEST PROCEDURE: IESNA LM-79-08
TEST DISTANCE = 35.0 FEET



CANDELA DISTRIBUTION

	0.0	45.0	90.0	135.0	180.0
0	32.0	32.0	32.0	32.0	32.0
5	31.9	31.9	31.9	31.9	31.9
15	30.9	30.8	30.8	30.7	30.8
25	28.7	28.6	28.5	27.9	25.7
35	25.6	25.5	25.5	22.2	15.9
45	21.5	21.6	21.5	13.2	4.4
55	16.8	17.0	16.8	3.3	0.0
65	11.5	11.8	11.7	0.2	0.0
75	6.1	6.3	6.4	0.1	0.0
85	1.2	1.3	1.5	0.0	0.0
90	0.0	0.0	0.0	0.0	0.0
95	0.5	0.8	1.5	0.0	0.0
105	5.1	5.6	6.3	0.1	0.0
115	10.3	10.9	11.4	0.2	0.0
125	15.4	16.1	16.4	2.3	0.0
135	20.2	20.7	21.0	11.8	3.0
145	24.4	24.7	24.9	21.4	14.0
155	27.6	27.8	28.0	27.5	24.8
165	30.0	30.1	30.2	30.4	30.2
175	31.3	31.3	31.3	31.4	31.4
180	31.5	31.5	31.5	31.5	31.5

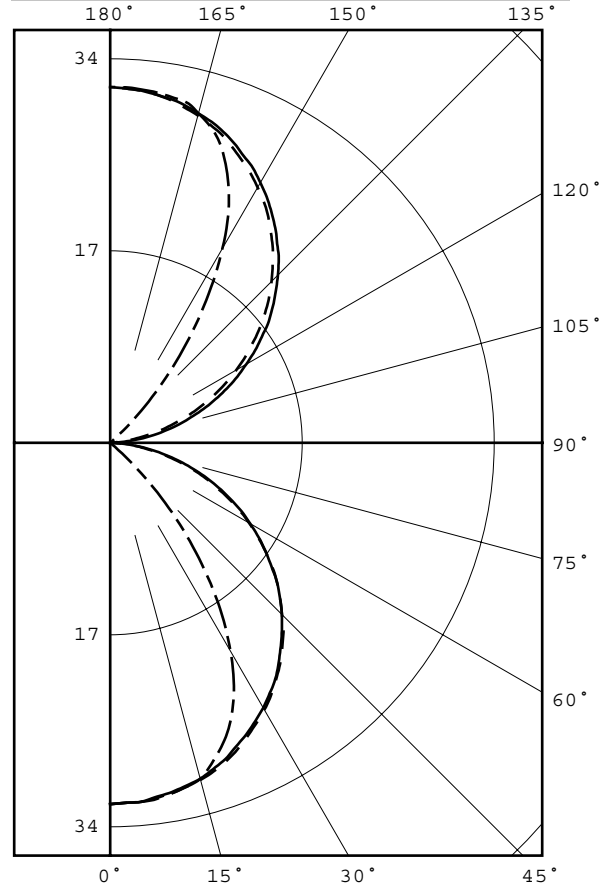
FLUX

3
9
13
15
13
10
7
4
1
1
4
7
10
13
14
13
9
3

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%FIXT
0- 30	25	16.7
0- 40	39	26.7
0- 60	63	42.9
0- 90	75	51.2
90-120	11	7.5
90-130	21	14.2
90-150	48	32.4
90-180	72	48.8
0-180	147	100.0

EFFICACY = 19.7 lm/W
CIE TYPE - GENERAL DIFFUSE
PLANE : 0-DEG 90-DEG 180-DEG
SPACING CRITERIA : 1.27 1.26 1.06
BEAM ANGLE (50%) : 91.4 X 113.3 DEGREES
FIELD ANGLE (10%) : 126.9 X 162.9 DEGREES



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

Checked M KLOPF
Approved R BEATTIE
Lighting Engineer



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PAGE: 2 OF 6

PLANE : 0-DEG 90-DEG
 LUMINOUS LENGTH : 1.313 11.375

LUMINANCE DATA IN CANDELA/SQ M

ANGLE IN DEG	AVERAGE 0-DEG	AVERAGE 90-DEG	AVERAGE 180-DEG
45	3157.	3157.	646.
55	3041.	3041.	0.
65	2825.	2874.	0.
75	2447.	2567.	0.
85	1429.	1787.	0.



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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	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0
5.0	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9
10.0	31.5	31.5	31.5	31.5	31.4	31.4	31.4	31.4	31.5
15.0	30.9	30.9	30.8	30.8	30.8	30.7	30.7	30.8	30.8
20.0	30.0	29.9	29.8	29.8	29.8	29.7	29.7	29.0	28.7
25.0	28.7	28.8	28.6	28.6	28.5	28.5	27.9	26.5	25.7
30.0	27.3	27.3	27.2	27.1	27.1	27.1	25.4	22.6	21.3
35.0	25.6	25.6	25.5	25.5	25.5	25.3	22.2	17.8	15.9
40.0	23.7	23.7	23.7	23.7	23.5	23.0	18.0	12.1	10.1
45.0	21.5	21.6	21.6	21.6	21.5	20.4	13.2	6.6	4.4
50.0	19.3	19.3	19.4	19.4	19.3	17.4	8.1	1.6	0.1
55.0	16.8	16.8	17.0	17.1	16.8	13.8	3.3	0.0	0.0
60.0	14.2	14.2	14.4	14.6	14.3	9.8	0.2	0.0	0.0
65.0	11.5	11.6	11.8	12.1	11.7	5.7	0.2	0.0	0.0
70.0	8.8	8.8	9.0	9.5	9.1	2.1	0.1	0.0	0.0
75.0	6.1	6.2	6.3	6.7	6.4	0.8	0.1	0.0	0.0
80.0	3.5	3.6	3.8	4.1	3.9	0.5	0.0	0.0	0.0
85.0	1.2	1.2	1.3	1.5	1.5	0.1	0.0	0.0	0.0
90.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95.0	0.5	0.6	0.8	1.2	1.5	0.0	0.0	0.0	0.0
100.0	2.6	2.7	3.1	3.7	3.9	0.5	0.0	0.0	0.0
105.0	5.1	5.1	5.6	6.3	6.3	0.7	0.1	0.0	0.0
110.0	7.7	7.7	8.3	9.0	8.8	1.6	0.1	0.0	0.0
115.0	10.3	10.4	10.9	11.6	11.4	5.0	0.2	0.0	0.0
120.0	12.9	13.1	13.5	14.1	13.9	9.0	0.2	0.0	0.0
125.0	15.4	15.6	16.1	16.5	16.4	13.2	2.3	0.0	0.0
130.0	17.9	18.1	18.5	18.8	18.8	16.9	6.8	0.4	0.0
135.0	20.2	20.4	20.7	21.0	21.0	20.0	11.8	5.0	3.0
140.0	22.4	22.6	22.8	23.0	23.0	22.6	16.9	10.5	8.2
145.0	24.4	24.5	24.7	24.8	24.9	24.9	21.4	16.2	14.0
150.0	26.1	26.2	26.4	26.5	26.6	26.8	24.9	21.5	19.9
155.0	27.6	27.7	27.8	27.9	28.0	28.2	27.5	25.8	24.8
160.0	29.0	29.1	29.1	29.2	29.3	29.4	29.4	28.6	28.3
165.0	30.0	30.0	30.1	30.1	30.2	30.3	30.4	30.4	30.2
170.0	30.8	30.8	30.8	30.9	30.9	31.0	31.1	31.2	31.1
175.0	31.3	31.3	31.3	31.3	31.3	31.4	31.4	31.4	31.4
180.0	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5



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PAGE: 4 OF 6

5-DEGREE
ZONAL LUMEN SUMMARY

0- 5	1
5- 10	2
10- 15	4
15- 20	5
20- 25	6
25- 30	7
30- 35	7
35- 40	7
40- 45	7
45- 50	6
50- 55	6
55- 60	5
60- 65	4
65- 70	3
70- 75	2
75- 80	2
80- 85	1
85- 90	0
90- 95	0
95-100	1
100-105	1
105-110	2
110-115	3
115-120	4
120-125	5
125-130	5
130-135	6
135-140	7
140-145	7
145-150	7
150-155	7
155-160	6
160-165	5
165-170	4
170-175	2
175-180	1

10-DEGREE
ZONAL LUMEN SUMMARY

0- 10	3
0- 20	12
0- 30	25
0- 40	39
0- 50	53
0- 60	63
0- 70	70
0- 80	74
0- 90	75
0-100	76
0-110	80
0-120	86
0-130	96
0-140	109
0-150	123
0-160	136
0-170	144
0-180	147



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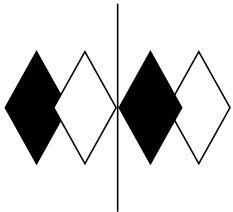
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	107	107	107	107	99	99	99	99	84	84	84	70	70	70	57	57	57	51
1	98	94	90	87	91	87	84	81	74	72	70	62	61	59	51	50	49	44
2	90	83	77	72	83	77	72	67	65	62	58	55	52	50	45	44	42	37
3	82	73	66	60	76	68	62	57	58	53	49	49	46	43	41	38	36	32
4	75	65	57	51	69	60	53	48	52	47	42	44	40	37	36	34	31	28
5	69	58	50	44	64	54	47	42	46	41	37	40	35	32	33	30	28	24
6	64	52	44	38	59	49	42	36	42	36	32	36	32	28	30	27	24	22
7	59	47	39	34	55	44	37	32	38	33	29	33	28	25	28	24	22	19
8	55	43	35	30	51	40	33	28	35	29	25	30	26	23	25	22	20	17
9	51	39	32	27	47	37	30	25	32	27	23	28	23	20	23	20	18	16
10	48	36	29	24	44	34	27	23	30	24	21	26	21	18	22	19	16	14

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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NVLAP LAB CODE: 200925-0

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