

REPORT NUMBER: ITL87398-GONIOPHOTOMETRY  
ISSUE DATE: 04/29/16  
PREPARED FOR: OXYGEN LIGHTING  
CATALOG NUMBER: 3-520

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LUMINAIRE: FABRICATED COPPER COLORED METAL HOUSING WITH WHITE PAINTED OPTICAL COMPARTMENT, FABRICATED WHITE PAINTED METAL CIRCUIT BOARD MOUNTING STRIP, 1 WHITE CIRCUIT BOARD WITH 36 LEDS, FROSTED TRANSLUCENT WHITE ACRYLIC DIFFUSER. DIFFUSER FROSTED SIDE OUT.

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

INPUT ELECTRICAL: 120.0 VOLTS, 15.3 WATTS, 0.130 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.

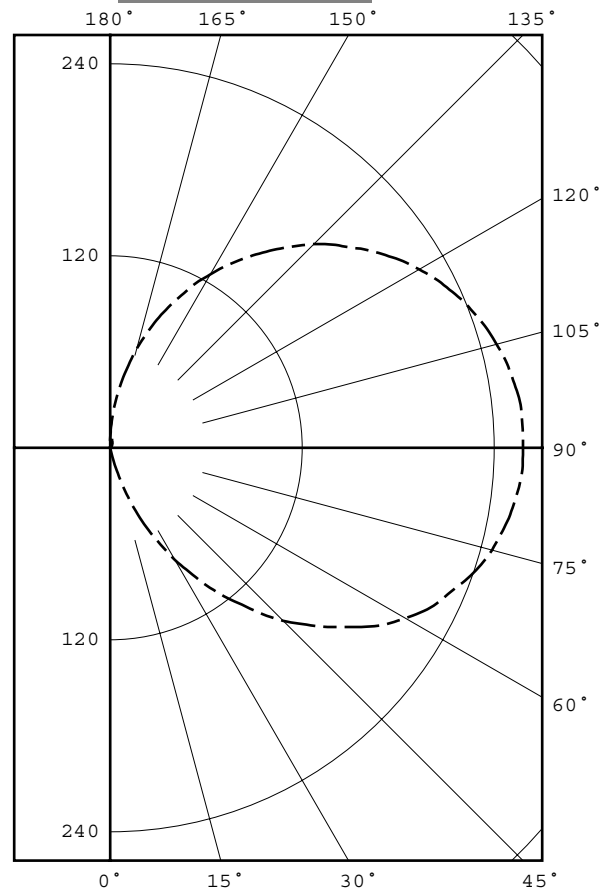
TEST PROCEDURE: IESNA LM-79-08

TEST DISTANCE = 35.0 FEET



CANDELA DISTRIBUTION						FLUX
0.0	45.0	90.0	135.0	180.0		
0	0	0	0	0	0	0
5	0	0	0	0	0	0
15	0	0	0	15	11	2
25	0	0	0	47	57	9
35	0	0	0	80	105	21
45	0	0	0	111	153	37
55	0	0	0	138	195	54
65	0	0	0	158	227	69
75	0	0	0	171	247	80
85	0	0	0	178	257	85
90	0	0	0	180	258	
95	0	0	0	179	258	86
105	0	0	1	174	250	81
115	0	0	1	163	234	71
125	0	0	1	146	210	58
135	0	0	1	126	180	43
145	0	1	2	102	144	28
155	0	1	3	75	105	16
165	0	2	4	48	64	6
175	3	4	5	19	23	1
180	5	5	5	5	5	

ZONAL	LUMEN	SUMMARY	
ZONE	LUMENS	%FIXT	
0- 30	11	1.4	
0- 40	32	4.3	
0- 60	123	16.5	
0- 90	357	47.7	
90-120	238	31.8	
90-130	296	39.6	
90-150	368	49.2	
90-180	391	52.3	
0-180	748	100.0	



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

EFFICACY = 48.9 lm/W  
CIE TYPE - GENERAL DIFFUSE  
PLANE : 0-DEG 90-DEG  
BEAM ANGLE (50%) : N/A X N/A DEGREES  
FIELD ANGLE (10%) : N/A X N/A DEGREES

Checked       M KLOPF        
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	0.	0.	0.
55	0.	0.	0.
65	0.	0.	0.
75	0.	0.	0.
85	0.	0.	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	0	0	0	0	0	0	0	0	0
5.0	0	0	0	0	0	0	0	0	0
10.0	0	0	0	0	0	2	4	1	0
15.0	0	0	0	0	0	8	15	11	11
20.0	0	0	0	0	0	15	30	33	33
25.0	0	0	0	0	0	22	47	55	57
30.0	0	0	0	0	0	30	64	77	81
35.0	0	0	0	0	0	37	80	100	105
40.0	0	0	0	0	0	44	96	123	128
45.0	0	0	0	0	0	51	111	145	153
50.0	0	0	0	0	0	56	125	165	174
55.0	0	0	0	0	0	62	138	184	195
60.0	0	0	0	0	0	66	149	201	213
65.0	0	0	0	0	0	70	158	214	227
70.0	0	0	0	0	0	73	166	224	238
75.0	0	0	0	0	0	76	171	232	247
80.0	0	0	0	0	0	78	176	238	253
85.0	0	0	0	0	0	79	178	242	257
90.0	0	0	0	0	0	79	180	243	258
95.0	0	0	0	0	0	79	179	243	258
100.0	0	0	0	0	1	79	177	241	255
105.0	0	0	0	0	1	77	174	236	250
110.0	0	0	0	0	1	75	169	229	243
115.0	0	0	0	0	1	73	163	221	234
120.0	0	0	0	0	1	70	155	211	223
125.0	0	0	0	0	1	66	146	199	210
130.0	0	0	0	0	1	62	136	185	195
135.0	0	0	0	1	1	57	126	171	180
140.0	0	0	0	1	2	52	114	154	162
145.0	0	0	1	1	2	47	102	137	144
150.0	0	0	1	1	2	41	89	119	125
155.0	0	0	1	2	3	36	75	100	105
160.0	0	0	1	2	4	30	62	81	85
165.0	0	1	2	3	4	24	48	61	64
170.0	1	1	2	3	5	18	33	41	43
175.0	3	3	4	4	5	12	19	22	23
180.0	5	5	5	5	5	5	5	5	5



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5-DEGREE  
ZONAL LUMEN SUMMARY

0- 5	0
5- 10	0
10- 15	0
15- 20	1
20- 25	3
25- 30	6
30- 35	9
35- 40	12
40- 45	16
45- 50	21
50- 55	25
55- 60	29
60- 65	33
65- 70	36
70- 75	39
75- 80	41
80- 85	42
85- 90	43
90- 95	43
95-100	43
100-105	41
105-110	39
110-115	37
115-120	34
120-125	31
125-130	27
130-135	23
135-140	20
140-145	16
145-150	12
150-155	9
155-160	6
160-165	4
165-170	2
170-175	1
175-180	0

10-DEGREE  
ZONAL LUMEN SUMMARY

0- 10	0
0- 20	2
0- 30	11
0- 40	32
0- 50	69
0- 60	123
0- 70	192
0- 80	271
0- 90	357
0-100	443
0-110	524
0-120	595
0-130	653
0-140	696
0-150	724
0-160	740
0-170	747
0-180	748



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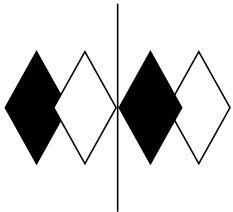
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	98	98	98	98	82	82	82	67	67	67	54	54	54	48
1	91	84	78	73	83	77	72	67	63	59	55	50	47	44	38	36	34	28
2	81	70	62	55	73	64	56	50	52	46	41	41	36	32	30	27	24	19
3	72	60	50	43	65	54	46	39	44	37	32	34	29	25	25	21	18	13
4	65	52	42	34	59	47	38	31	38	31	25	29	24	19	21	17	14	10
5	59	45	36	28	53	41	32	26	33	26	21	25	20	16	18	14	11	7
6	54	40	31	24	49	36	28	22	29	22	17	23	17	13	16	12	9	6
7	50	36	27	20	45	32	24	18	26	19	15	20	15	11	15	11	7	5
8	46	32	23	17	41	29	21	16	23	17	12	18	13	9	13	9	6	4
9	43	29	21	15	38	26	19	14	21	15	11	17	12	8	12	8	5	3
10	40	26	18	13	36	24	17	12	19	13	9	15	10	7	11	7	5	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.

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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