

REPORT NUMBER: ITL82263
ISSUE DATE: 12/29/14
PREPARED FOR: OXYGEN LIGHTING
CATALOG NUMBER: 3-517-XX

PAGE: 1 OF 6
REVISED: 04/04/16

LUMINAIRE: FABRICATED SEMI-SPECULAR METAL HOUSING WITH SEMI-SPECULAR INTERIOR AND TWO DISTINCT SIDE OPTICAL COMPARTMENTS, EACH OPTICAL COMPARTMENT CONSISTS OF: 1 WHITE CIRCUIT BOARD WITH 36 LEDS, FROSTED TRANSLUCENT WHITE ACRYLIC DIFFUSER. DIFFUSERS FROSTED BOTH SIDES.

LAMPS: SEVENTY-TWO WHITE MULTI-CHIP LIGHT EMITTING DIODES (LEDS), AIMED AT THE HORIZON.

INPUT ELECTRICAL: 120.0 VOLTS, 24.4 WATTS, 0.206 AMPS

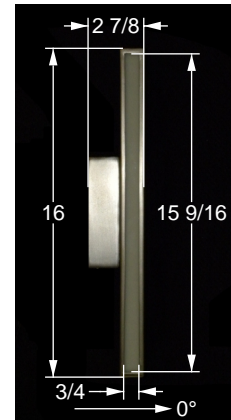
MOUNTING: WALL

LED DRIVERS: TWO ESPEN VEL12030MVH-1

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

TEST PROCEDURE: IESNA LM-79-08

TEST DISTANCE = 20.0 FEET



CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.2	0.7	1.3	1.4
15	0.0	1.6	5.2	8.1	9.2
25	0.0	3.4	10.7	16.0	18.2
35	0.0	5.5	16.1	23.6	26.6
45	0.0	7.5	20.8	30.3	34.1
55	0.0	9.1	24.8	35.9	40.3
65	0.0	10.5	28.0	40.3	45.3
75	0.0	11.4	30.1	43.3	48.8
85	0.0	11.8	31.2	45.0	50.6
90	0.0	11.9	31.4	45.2	50.9
95	0.0	11.9	31.2	45.0	50.6
105	0.0	11.3	29.9	43.1	48.5
115	0.0	10.3	27.5	39.7	44.6
125	0.0	8.9	24.3	35.1	39.4
135	0.0	7.3	20.3	29.5	33.1
145	0.0	5.3	15.6	22.9	25.7
155	0.0	3.3	10.2	15.4	17.4
165	0.0	1.5	4.9	7.7	8.7
175	0.0	0.1	0.6	1.1	1.3
180	0.0	0.0	0.0	0.0	0.0

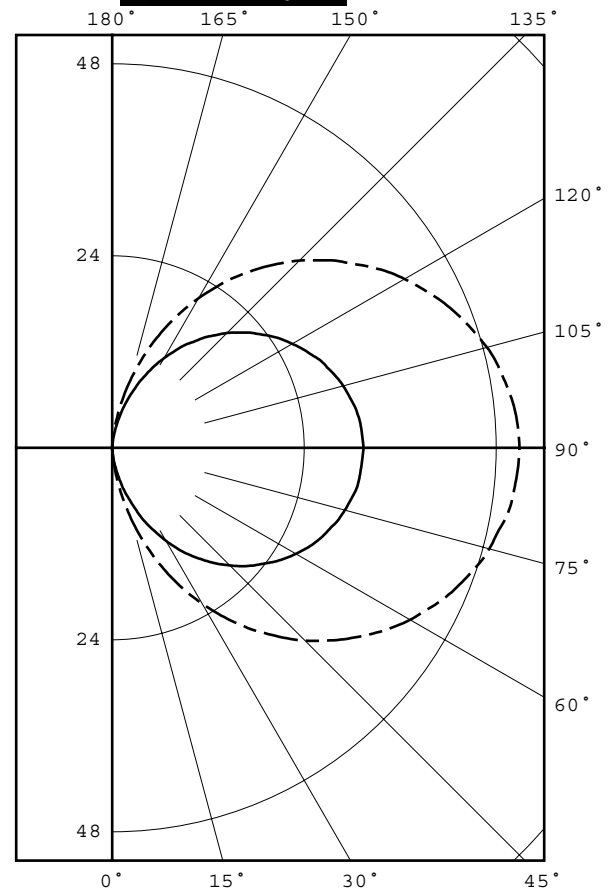
FLUX

0
1
5
9
15
20
25
29
31
31
29
25
20
14
9
4
1
0

ZONAL LUMEN SUMMARY

ZONE	LUMENS	% FIXT
0- 30	6	2.3
0- 40	15	5.7
0- 60	50	18.7
0- 90	135	50.4
90-120	84	31.4
90-130	104	38.8
90-150	127	47.4
90-180	133	49.6
0-180	268	100.0

EFFICACY = 11.0 lm/W
CIE TYPE - GENERAL DIFFUSE

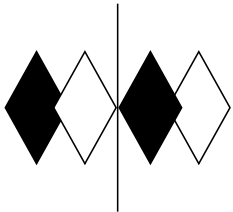


LEGEND:

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

Checked B. HYRE

Approved R. BEATTIE
Lighting Engineer



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

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LUMINANCE DATA IN CANDELA/SQ M			
ANGLE IN DEG	AVERAGE 0-DEG	AVERAGE 45-DEG	AVERAGE 90-DEG
45	0.	5559.	6368.
55	0.	5653.	6507.
65	0.	5787.	6624.
75	0.	5832.	6694.
85	0.	5898.	6761.



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CANDELA DISTRIBUTION
LATERAL ANGLE

	0.0	22.5	45.0	67.5	90.0
0.0	0.0	0.0	0.0	0.0	0.0
5.0	0.0	0.2	0.7	1.3	1.4
10.0	0.0	0.8	2.6	4.3	4.9
15.0	0.0	1.6	5.2	8.1	9.2
20.0	0.0	2.4	7.7	12.0	13.7
25.0	0.0	3.4	10.7	16.0	18.2
30.0	0.0	4.5	13.4	19.9	22.5
35.0	0.0	5.5	16.1	23.6	26.6
40.0	0.0	6.5	18.5	27.0	30.4
45.0	0.0	7.5	20.8	30.3	34.1
50.0	0.0	8.3	22.9	33.2	37.3
55.0	0.0	9.1	24.8	35.9	40.3
60.0	0.0	9.9	26.5	38.3	43.0
65.0	0.0	10.5	28.0	40.3	45.3
70.0	0.0	10.9	29.1	42.0	47.2
75.0	0.0	11.4	30.1	43.3	48.8
80.0	0.0	11.8	30.9	44.5	50.0
85.0	0.0	11.8	31.2	45.0	50.6
90.0	0.0	11.9	31.4	45.2	50.9
95.0	0.0	11.9	31.2	45.0	50.6
100.0	0.0	11.6	30.7	44.2	49.7
105.0	0.0	11.3	29.9	43.1	48.5
110.0	0.0	10.8	28.8	41.6	46.7
115.0	0.0	10.3	27.5	39.7	44.6
120.0	0.0	9.7	26.0	37.6	42.2
125.0	0.0	8.9	24.3	35.1	39.4
130.0	0.0	8.1	22.4	32.4	36.4
135.0	0.0	7.3	20.3	29.5	33.1
140.0	0.0	6.3	18.0	26.3	29.5
145.0	0.0	5.3	15.6	22.9	25.7
150.0	0.0	4.3	12.9	19.2	21.6
155.0	0.0	3.3	10.2	15.4	17.4
160.0	0.0	2.3	7.5	11.5	13.0
165.0	0.0	1.5	4.9	7.7	8.7
170.0	0.0	0.7	2.5	4.1	4.5
175.0	0.0	0.1	0.6	1.1	1.3
180.0	0.0	0.0	0.0	0.0	0.0



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5-DEGREE
ZONAL LUMEN SUMMARY

0- 5	0
5- 10	0
10- 15	0
15- 20	1
20- 25	2
25- 30	3
30- 35	4
35- 40	5
40- 45	7
45- 50	8
50- 55	9
55- 60	11
60- 65	12
65- 70	13
70- 75	14
75- 80	15
80- 85	15
85- 90	16
90- 95	16
95-100	15
100-105	15
105-110	14
110-115	13
115-120	12
120-125	11
125-130	9
130-135	8
135-140	6
140-145	5
145-150	4
150-155	3
155-160	2
160-165	1
165-170	0
170-175	0
175-180	0

10-DEGREE
ZONAL LUMEN SUMMARY

0- 10	0
0- 20	2
0- 30	6
0- 40	15
0- 50	30
0- 60	50
0- 70	75
0- 80	104
0- 90	135
0-100	166
0-110	195
0-120	219
0-130	239
0-140	253
0-150	262
0-160	267
0-170	268
0-180	268



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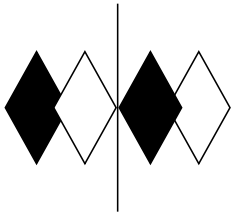
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	107	107	107	107	99	99	99	99	84	84	84	69	69	69	56	56	56	50	
1	92	85	79	73	84	78	72	67	64	60	56	52	49	46	41	38	36	30	
2	81	71	62	55	74	65	57	51	53	47	42	42	38	34	32	29	26	21	
3	73	60	51	43	66	55	47	40	45	38	33	35	30	26	27	23	19	15	
4	66	52	42	35	59	48	39	32	39	32	26	30	25	21	23	19	15	11	
5	60	46	36	29	54	42	33	26	34	27	21	27	21	17	20	16	12	9	
6	55	40	31	24	49	37	28	22	30	23	18	24	18	14	18	13	10	7	
7	50	36	27	20	45	33	25	19	27	20	15	21	16	12	16	12	8	5	
8	46	32	24	18	42	30	22	16	24	18	13	19	14	10	14	10	7	5	
9	43	29	21	15	39	27	19	14	22	16	11	17	12	9	13	9	6	4	
10	40	27	19	13	36	24	17	12	20	14	10	16	11	8	12	8	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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NVLAP LAB CODE: 200925-0

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