

REPORT NUMBER: ITL82261
ISSUE DATE: 08/05/14
PREPARED FOR: OXYGEN LIGHTING
CATALOG NUMBER: 3-515-XX

PAGE: 1 OF 5
REVISED: 04/04/16

LUMINAIRE: FABRICATED SPECULAR METAL HOUSING WITH SEMI-SPECULAR INTERIOR,
WHITE CIRCUIT BOARD WITH 36 LEDS, FROSTED TRANSLUCENT WHITE ACRYLIC
DIFFUSER. DIFFUSER FROSTED SIDE OUT.

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

TOTAL INPUT WATTS = 11.9 AT 120.0 VOLTS

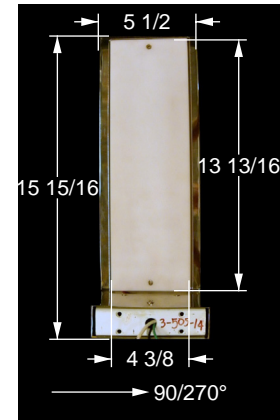
MOUNTING: WALL

LED DRIVER: ESPEN VEL12030MVH-1

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 = 20.0 FEET



CANDELA DISTRIBUTION

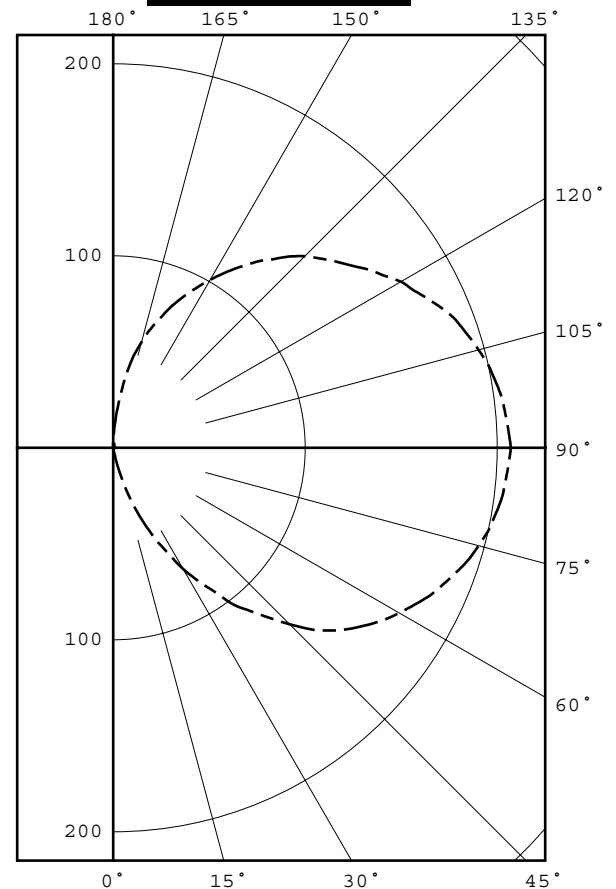
	0.0	45.0	90.0	135.0	180.0
0	0	0	0	0	0
5	0	0	0	0	0
15	0	0	0	3	14
25	0	0	0	27	53
35	0	0	0	54	91
45	0	0	0	80	130
55	0	0	0	104	161
65	0	0	0	121	182
75	0	0	0	131	197
85	0	0	0	137	205
90	0	0	0	137	207
95	0	0	0	137	205
105	0	0	1	132	197
115	0	0	1	122	182
125	0	0	1	110	162
135	0	0	1	97	141
145	0	0	1	80	115
155	0	0	1	61	87
165	0	0	2	39	57
175	0	0	2	11	16
180	2	2	2	2	2

FLUX

0
1
7
17
29
43
54
63
67
67
63
55
44
33
22
13
5
1

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%FIXT
0- 30	8	1.4
0- 40	24	4.2
0- 60	97	16.5
0- 90	281	48.1
90-120	185	31.6
90-130	229	39.2
90-150	285	48.8
90-180	303	51.9
0-180	584	100.0



LEGEND:
0-deg -----
90-deg _____
180-deg - . - . - .

EFFICACY = 49.1 lm/W
CIE TYPE - GENERAL DIFFUSE

Checked M KLOPF
Approved R BEATTIE
Lighting Engineer



INDEPENDENT TESTING LABORATORIES, INC.
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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	0	0	0	0
15.0	0	0	0	0	0	2	3	12	14
20.0	0	0	0	0	0	8	15	29	34
25.0	0	0	0	0	0	14	27	46	53
30.0	0	0	0	0	0	20	41	64	73
35.0	0	0	0	0	0	27	54	82	91
40.0	0	0	0	0	0	34	67	100	111
45.0	0	0	0	0	0	40	80	116	130
50.0	0	0	0	0	0	46	93	133	148
55.0	0	0	0	0	0	51	104	147	161
60.0	0	0	0	0	0	56	114	157	172
65.0	0	0	0	0	0	60	121	166	182
70.0	0	0	0	0	0	62	127	174	190
75.0	0	0	0	0	0	65	131	180	197
80.0	0	0	0	0	0	66	135	185	202
85.0	0	0	0	0	0	67	137	188	205
90.0	0	0	0	0	0	68	137	189	207
95.0	0	0	0	0	0	67	137	188	205
100.0	0	0	0	0	0	66	135	185	202
105.0	0	0	0	0	1	65	132	180	197
110.0	0	0	0	0	1	63	127	174	191
115.0	0	0	0	0	1	60	122	167	182
120.0	0	0	0	0	1	58	116	158	173
125.0	0	0	0	0	1	55	110	148	162
130.0	0	0	0	0	1	52	104	139	151
135.0	0	0	0	0	1	48	97	129	141
140.0	0	0	0	0	1	44	89	118	128
145.0	0	0	0	0	1	40	80	106	115
150.0	0	0	0	0	1	35	71	94	101
155.0	0	0	0	0	1	30	61	81	87
160.0	0	0	0	0	1	24	50	66	72
165.0	0	0	0	0	2	19	39	52	57
170.0	0	0	0	0	2	12	25	34	38
175.0	0	0	0	1	2	6	11	15	16
180.0	2	2	2	2	2	2	2	2	2



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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	4
30- 35	7
35- 40	10
40- 45	13
45- 50	16
50- 55	20
55- 60	23
60- 65	26
65- 70	28
70- 75	30
75- 80	32
80- 85	33
85- 90	34
90- 95	34
95-100	33
100-105	32
105-110	31
110-115	29
115-120	26
120-125	24
125-130	21
130-135	18
135-140	15
140-145	13
145-150	10
150-155	7
155-160	5
160-165	3
165-170	2
170-175	1
175-180	0

10-DEGREE
ZONAL LUMEN SUMMARY

0- 10	0
0- 20	1
0- 30	8
0- 40	24
0- 50	54
0- 60	97
0- 70	151
0- 80	214
0- 90	281
0-100	348
0-110	411
0-120	466
0-130	510
0-140	544
0-150	566
0-160	579
0-170	584
0-180	584



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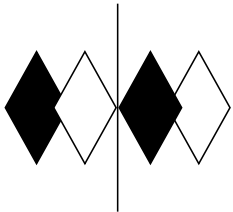
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	98	98	98	98	82	82	82	68	68	68	54	54	54	48	
1	91	84	78	73	83	77	72	67	63	59	55	50	47	44	39	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	35	28	53	41	32	26	33	26	21	25	20	16	18	14	11	7	
6	54	40	30	24	49	36	28	21	29	22	17	23	17	13	16	12	9	6	
7	50	36	26	20	45	32	24	18	26	19	14	20	15	11	15	10	7	4	
8	46	32	23	17	41	29	21	16	23	17	12	18	13	9	13	9	6	4	
9	43	29	20	15	38	26	19	13	21	15	11	16	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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