

REPORT NUMBER: ITL82258
ISSUE DATE: 08/08/14
PREPARED FOR: OXYGEN LIGHTING
CATALOG NUMBER: 3-511-XX

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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 = 12.3 AT 120.0 VOLTS

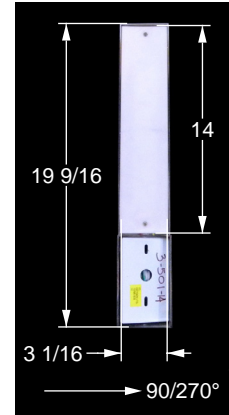
MOUNTING: WALL

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

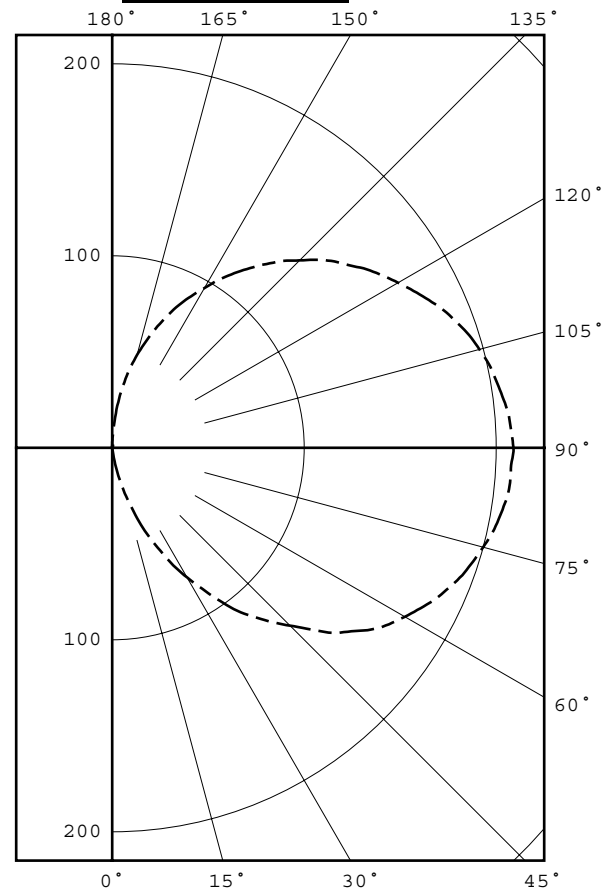
TEST DISTANCE = 20.0 FEET



CANDELA DISTRIBUTION

	0.0	45.0	90.0	135.0	180.0	FLUX
0	0	0	0	0	0	0
5	0	0	0	0	0	0
15	0	0	0	13	23	2
25	0	0	0	37	59	8
35	0	0	0	62	97	18
45	0	0	0	86	131	31
55	0	0	0	107	165	44
65	0	0	0	123	186	55
75	0	0	0	132	200	63
85	0	0	0	137	208	68
90	0	0	0	138	209	67
95	0	0	0	137	207	63
105	0	0	0	131	198	54
115	0	0	0	121	182	44
125	0	0	0	109	162	32
135	0	0	0	93	138	21
145	0	0	0	76	111	12
155	0	0	0	56	82	4
165	0	0	1	35	50	1
175	0	0	1	9	14	
180	1	1	1	1	1	

FLUX



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

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%FIXT
0- 30	10	1.8
0- 40	28	4.8
0- 60	103	17.5
0- 90	289	49.2
90-120	184	31.4
90-130	228	38.8
90-150	282	47.9
90-180	298	50.8
0-180	587	100.0

EFFICACY = 47.7 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	2	3	4	7
15.0	0	0	0	0	0	8	13	20	23
20.0	0	0	0	0	0	14	25	36	41
25.0	0	0	0	0	0	20	37	53	59
30.0	0	0	0	0	0	26	50	70	78
35.0	0	0	0	0	0	32	62	86	97
40.0	0	0	0	0	0	38	74	104	115
45.0	0	0	0	0	0	44	86	119	131
50.0	0	0	0	0	0	49	97	134	150
55.0	0	0	0	0	0	53	107	149	165
60.0	0	0	0	0	0	57	116	160	176
65.0	0	0	0	0	0	61	123	169	186
70.0	0	0	0	0	0	63	128	176	194
75.0	0	0	0	0	0	65	132	182	200
80.0	0	0	0	0	0	66	136	186	205
85.0	0	0	0	0	0	67	137	189	208
90.0	0	0	0	0	0	67	138	189	209
95.0	0	0	0	0	0	67	137	188	207
100.0	0	0	0	0	0	66	134	185	203
105.0	0	0	0	0	0	64	131	180	198
110.0	0	0	0	0	0	62	126	173	191
115.0	0	0	0	0	0	59	121	166	182
120.0	0	0	0	0	0	56	115	157	172
125.0	0	0	0	0	0	53	109	147	162
130.0	0	0	0	0	0	50	101	137	151
135.0	0	0	0	0	0	46	93	126	138
140.0	0	0	0	0	0	41	85	114	125
145.0	0	0	0	0	0	37	76	102	111
150.0	0	0	0	0	0	32	66	88	96
155.0	0	0	0	0	0	27	56	75	82
160.0	0	0	0	0	1	22	45	60	66
165.0	0	0	0	0	1	16	35	46	50
170.0	0	0	0	0	1	10	22	31	33
175.0	0	0	0	0	1	5	9	13	14
180.0	1	1	1	1	1	1	1	1	1



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5-DEGREE
ZONAL LUMEN SUMMARY

0- 5	0
5- 10	0
10- 15	0
15- 20	2
20- 25	3
25- 30	5
30- 35	8
35- 40	10
40- 45	14
45- 50	17
50- 55	20
55- 60	24
60- 65	26
65- 70	29
70- 75	31
75- 80	32
80- 85	34
85- 90	34
90- 95	34
95-100	33
100-105	32
105-110	30
110-115	28
115-120	26
120-125	23
125-130	20
130-135	18
135-140	15
140-145	12
145-150	9
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	2
0- 30	10
0- 40	28
0- 50	59
0- 60	103
0- 70	158
0- 80	221
0- 90	289
0-100	356
0-110	419
0-120	473
0-130	517
0-140	549
0-150	571
0-160	582
0-170	587
0-180	587



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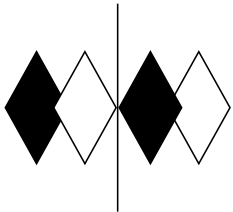
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	83	83	83	69	69	69	55	55	55	49	
1	92	85	79	73	83	77	72	67	64	59	56	51	48	45	40	37	35	29	
2	81	71	62	55	73	64	57	50	52	46	41	41	37	33	31	28	25	20	
3	72	60	51	43	65	55	46	39	44	38	32	35	30	25	26	22	19	14	
4	65	52	42	35	59	47	38	32	38	31	26	30	24	20	22	18	14	10	
5	59	45	36	28	54	41	32	26	33	26	21	26	20	16	19	15	11	8	
6	54	40	31	24	49	36	28	22	29	23	17	23	18	13	17	13	9	6	
7	50	36	27	20	45	33	24	18	26	20	15	21	15	11	15	11	8	5	
8	46	32	23	17	42	29	21	16	24	17	13	19	13	10	14	10	7	4	
9	43	29	21	15	39	26	19	14	22	15	11	17	12	8	12	9	6	3	
10	40	26	18	13	36	24	17	12	20	14	10	15	11	7	11	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.

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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