

REPORT NUMBER: ITL82262
ISSUE DATE: 08/05/14
PREPARED FOR: OXYGEN LIGHTING
CATALOG NUMBER: 3-516-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.

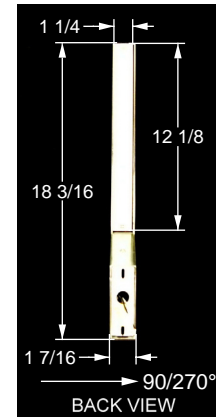
TOTAL INPUT WATTS = 12.0 AT 120.0 VOLTS
MOUNTING: WALL

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

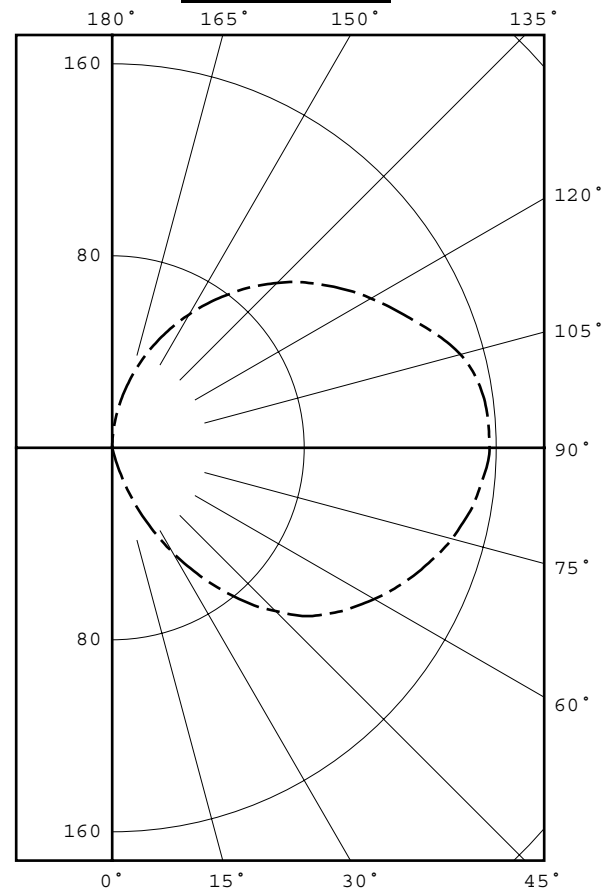
TEST DISTANCE = 20.0 FEET



CANDELA DISTRIBUTION

	0.0	45.0	90.0	135.0	180.0	
0	0	0	0	0	0	0
5	0	0	0	1	0	0
15	0	0	0	16	3	2
25	0	0	0	35	34	6
35	0	0	0	52	66	14
45	0	0	0	67	96	23
55	0	0	0	80	118	32
65	0	0	0	90	134	40
75	0	0	0	97	147	46
85	0	0	0	101	155	50
90	0	0	0	101	157	50
95	0	0	0	100	157	50
105	0	0	0	96	150	46
115	0	0	0	89	133	40
125	0	0	0	78	116	32
135	0	0	0	66	97	23
145	0	0	0	51	76	15
155	0	0	0	36	53	8
165	0	0	0	21	30	3
175	0	0	0	6	9	0
180	0	0	0	0	0	0

FLUX



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

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%FIXT
0- 30	8	1.9
0- 40	22	5.2
0- 60	78	18.1
0- 90	214	49.8
90-120	136	31.6
90-130	168	38.9
90-150	205	47.7
90-180	216	50.2
0-180	431	100.0

EFFICACY = 35.9 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	1	1	0	0
10.0	0	0	0	0	0	4	7	3	0
15.0	0	0	0	0	0	9	16	14	3
20.0	0	0	0	0	0	13	26	28	18
25.0	0	0	0	0	0	17	35	41	34
30.0	0	0	0	0	0	21	44	55	50
35.0	0	0	0	0	0	26	52	68	66
40.0	0	0	0	0	0	29	60	81	82
45.0	0	0	0	0	0	33	67	92	96
50.0	0	0	0	0	0	36	74	102	109
55.0	0	0	0	0	0	39	80	110	118
60.0	0	0	0	0	0	41	85	118	126
65.0	0	0	0	0	0	44	90	124	134
70.0	0	0	0	0	0	45	94	130	140
75.0	0	0	0	0	0	47	97	134	147
80.0	0	0	0	0	0	48	99	138	152
85.0	0	0	0	0	0	49	101	140	155
90.0	0	0	0	0	0	49	101	141	157
95.0	0	0	0	0	0	49	100	140	157
100.0	0	0	0	0	0	48	99	137	155
105.0	0	0	0	0	0	47	96	134	150
110.0	0	0	0	0	0	45	93	128	142
115.0	0	0	0	0	0	43	89	122	133
120.0	0	0	0	0	0	41	84	116	125
125.0	0	0	0	0	0	38	78	108	116
130.0	0	0	0	0	0	35	72	100	107
135.0	0	0	0	0	0	32	66	91	97
140.0	0	0	0	0	0	29	59	81	87
145.0	0	0	0	0	0	25	51	71	76
150.0	0	0	0	0	0	22	44	60	64
155.0	0	0	0	0	0	18	36	50	53
160.0	0	0	0	0	0	14	28	39	42
165.0	0	0	0	0	0	10	21	29	30
170.0	0	0	0	0	0	7	13	18	19
175.0	0	0	0	0	0	3	6	8	9
180.0	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	4
30- 35	6
35- 40	8
40- 45	10
45- 50	13
50- 55	15
55- 60	17
60- 65	19
65- 70	21
70- 75	23
75- 80	24
80- 85	25
85- 90	25
90- 95	25
95-100	25
100-105	24
105-110	23
110-115	21
115-120	19
120-125	17
125-130	15
130-135	13
135-140	10
140-145	8
145-150	6
150-155	5
155-160	3
160-165	2
165-170	1
170-175	0
175-180	0

10-DEGREE
ZONAL LUMEN SUMMARY

0- 10	0
0- 20	2
0- 30	8
0- 40	22
0- 50	46
0- 60	78
0- 70	118
0- 80	165
0- 90	214
0-100	264
0-110	311
0-120	350
0-130	382
0-140	405
0-150	420
0-160	427
0-170	430
0-180	431



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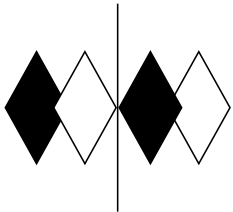
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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

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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