

REPORT NUMBER: ITL84574
ISSUE DATE: 05/04/15
PREPARED FOR: OXYGEN LIGHTING
CATALOG NUMBER: 3-683-XX

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

LUMINAIRE: FORMED METAL HOUSING WITH WHITE PAINTED INTERIOR FINISH, 2 FORMED WHITE PAINTED METAL DRIVER COVERS, 2 WHITE CIRCUIT BOARDS EACH WITH 30 LEDS, TRANSLUCENT WHITE FROSTED ACRYLIC DIFFUSER, 2 FABRICATED SEMI-DIFFUSE BRASS COLORED METAL DIFFUSER MOUNTING FRAMES WITH 4 VERTICAL SUPPORT RODS. DIFFUSER FROSTED SIDE OUT. THE 0-DEGREE PLANE IS PERPENDICULAR TO THE CIRCUIT BOARDS.

LAMPS: SIXTY WHITE LIGHT EMITTING DIODES (LEDS), VERTICAL BASE-UP POSITION.

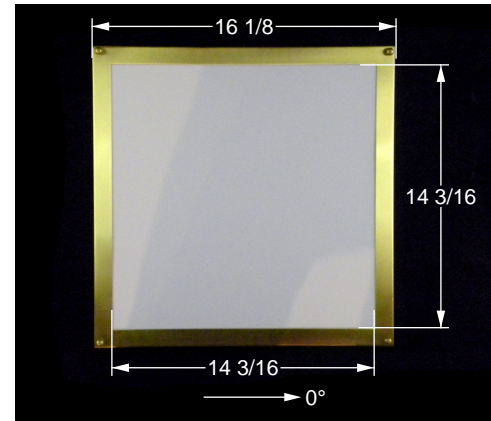
INPUT ELECTRICAL: 120.0 VOLTS, 21.2 WATTS, 0.179 AMPS

TOTAL REFLECTANCE OF PAINT = 80.7 %
MOUNTING: SURFACE

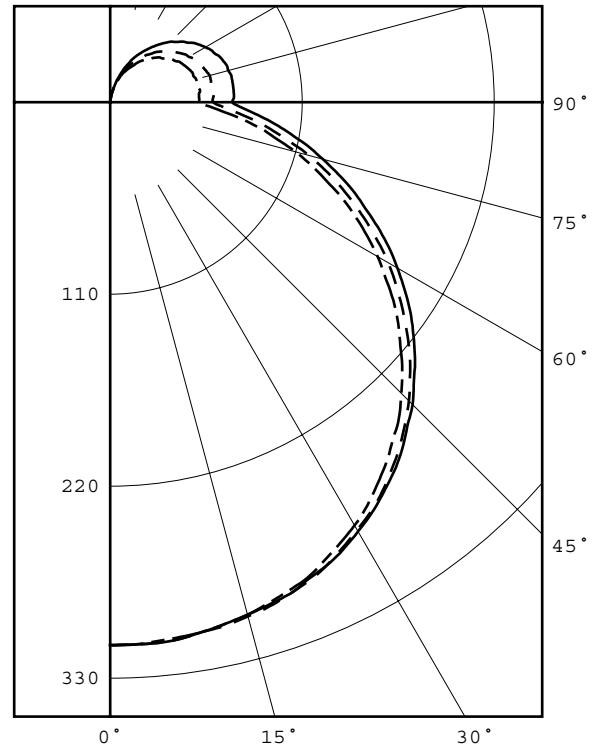
LED DRIVERS: TWO ESPEN VEL12030MVH-1

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

TEST PROCEDURE: IESNA LM-79-08
TEST DISTANCE = 20.0 FEET



CANDELA DISTRIBUTION						FLUX
	0.0	22.5	45.0	67.5	90.0	
0	311	311	311	311	311	
5	311	311	311	311	310	30
15	305	305	304	304	304	86
25	293	293	293	290	290	135
35	272	272	273	269	267	170
45	242	244	245	240	236	187
55	204	208	210	204	198	184
65	162	167	169	163	155	163
75	118	124	126	119	110	128
85	74	83	85	78	66	87
90	59	68	70	63	51	
95	60	69	71	64	51	71
105	59	68	70	63	51	67
115	55	64	66	59	48	60
125	49	56	59	52	43	48
135	41	47	49	43	36	34
145	31	35	37	32	28	21
155	21	23	24	21	19	10
165	10	10	10	10	10	3
175	1	2	2	1	2	0
180	0	0	0	0	0	



LEGEND:
0-deg -----
45-deg =====
90-deg -----

ZONAL ZONE	LUMEN LUMENS	SUMMARY %FIXT
0- 30	250	16.9
0- 40	420	28.3
0- 60	791	53.3
0- 90	1169	78.8
90-120	198	13.3
90-130	245	16.5
90-150	301	20.3
90-180	314	21.2
0-180	1483	100.0

EFFICACY = 70.0 lm/W
CIE TYPE - SEMI-DIRECT
PLANE : 0-DEG 90-DEG
SPACING CRITERIA : 1.36 1.34

Checked B. HYRE
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	2126.	2035.	2073.
55	2015.	1907.	1955.
65	1893.	1753.	1811.
75	1752.	1578.	1634.
85	1582.	1401.	1411.



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CANDELA DISTRIBUTION
LATERAL ANGLE

	0.0	22.5	45.0	67.5	90.0
0.0	311	311	311	311	311
5.0	311	311	311	311	310
10.0	308	308	308	308	308
15.0	305	305	304	304	304
20.0	300	300	300	298	298
25.0	293	293	293	290	290
30.0	283	284	284	281	280
35.0	272	272	273	269	267
40.0	258	259	260	256	252
45.0	242	244	245	240	236
50.0	224	227	228	223	217
55.0	204	208	210	204	198
60.0	184	188	190	184	177
65.0	162	167	169	163	155
70.0	140	146	148	141	132
75.0	118	124	126	119	110
80.0	95	103	105	98	88
85.0	74	83	85	78	66
90.0	59	68	70	63	51
95.0	60	69	71	64	51
100.0	59	69	71	64	51
105.0	59	68	70	63	51
110.0	57	66	69	61	50
115.0	55	64	66	59	48
120.0	52	60	63	56	46
125.0	49	56	59	52	43
130.0	45	52	54	48	39
135.0	41	47	49	43	36
140.0	36	41	43	38	32
145.0	31	35	37	32	28
150.0	26	29	31	27	23
155.0	21	23	24	21	19
160.0	16	16	17	16	14
165.0	10	10	10	10	10
170.0	5	5	5	5	5
175.0	1	2	2	1	2
180.0	0	0	0	0	0



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5-DEGREE
ZONAL LUMEN SUMMARY

0- 5	7
5- 10	22
10- 15	36
15- 20	50
20- 25	62
25- 30	73
30- 35	82
35- 40	88
40- 45	92
45- 50	94
50- 55	94
55- 60	90
60- 65	85
65- 70	78
70- 75	69
75- 80	59
80- 85	48
85- 90	39
90- 95	35
95-100	35
100-105	34
105-110	33
110-115	31
115-120	28
120-125	25
125-130	22
130-135	19
135-140	15
140-145	12
145-150	9
150-155	6
155-160	4
160-165	2
165-170	1
170-175	0
175-180	0

10-DEGREE
ZONAL LUMEN SUMMARY

0- 10	30
0- 20	116
0- 30	250
0- 40	420
0- 50	607
0- 60	791
0- 70	954
0- 80	1081
0- 90	1169
0-100	1239
0-110	1307
0-120	1366
0-130	1414
0-140	1448
0-150	1469
0-160	1480
0-170	1483
0-180	1483



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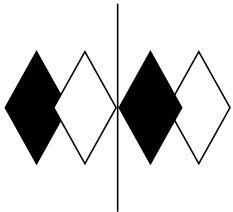
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	114	114	114	114	114	109	109	109	109	99	99	99	91	91	91	83	83	83	79
1	102	96	91	86	86	97	92	87	83	83	80	76	76	73	70	69	67	65	61
2	91	82	75	68	68	87	79	72	66	71	66	61	65	61	57	59	55	52	49
3	83	71	63	56	56	78	68	60	54	62	56	50	57	51	47	51	47	43	40
4	75	63	53	46	46	71	60	51	45	55	48	42	50	44	39	45	40	36	34
5	69	56	46	39	39	65	53	45	38	49	41	36	44	38	34	41	35	31	29
6	63	50	41	34	34	60	48	39	33	44	36	31	40	34	29	37	31	27	25
7	59	45	36	30	30	56	43	35	29	40	32	27	36	30	26	33	28	24	22
8	54	41	32	26	26	52	39	31	25	36	29	24	33	27	23	30	25	21	19
9	51	37	29	23	23	48	36	28	23	33	26	21	30	25	20	28	23	19	17
10	47	34	26	21	21	45	33	25	20	30	24	19	28	22	18	26	21	17	15

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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