



REPORT NUMBER: ITL84573
ISSUE DATE: 05/13/15
PREPARED FOR: OXYGEN LIGHTING
CATALOG NUMBER: 3-682-XX

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REVISED: 04/04/16

LUMINAIRE: FORMED METAL HOUSING WITH WHITE PAINTED INTERIOR FINISH, FORMED WHITE PAINTED METAL DRIVER COVER, 1 WHITE CIRCUIT BOARD WITH 30 LEDS, TRANSLUCENT WHITE FROSTED ACRYLIC DIFFUSER, 2 FABRICATED SEMI-DIFFUSE METAL DIFFUSER MOUNTING FRAMES WITH 4 VERTICAL SUPPORT RODS. DIFFUSER FROSTED SIDE OUT. DRIVER IS EXPOSED AND MOUNTED OBLIQUELY ON THE 180-DEGREE SIDE AND OFFSET TO ONE SIDE OF THE OPTICAL COMPARTMENT. THE 0-DEGREE PLANE IS TOWARD AND PERPENDICULAR TO THE CIRCUIT BOARD.

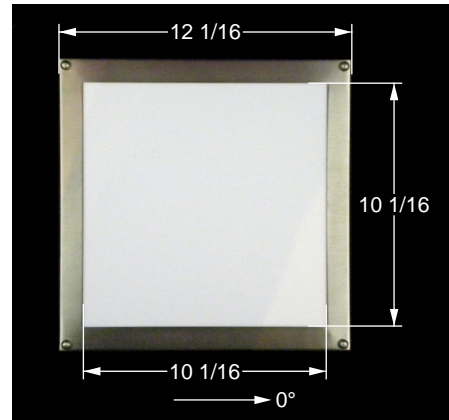
LAMPS: THIRTY WHITE LIGHT EMITTING DIODES (LEDS), VERTICAL BASE-UP POSITION.
INPUT ELECTRICAL: 120.0 VOLTS, 10.5 WATTS, 0.0887 AMPS

TOTAL REFLECTANCE OF PAINT = 80.1 %
MOUNTING: SURFACE

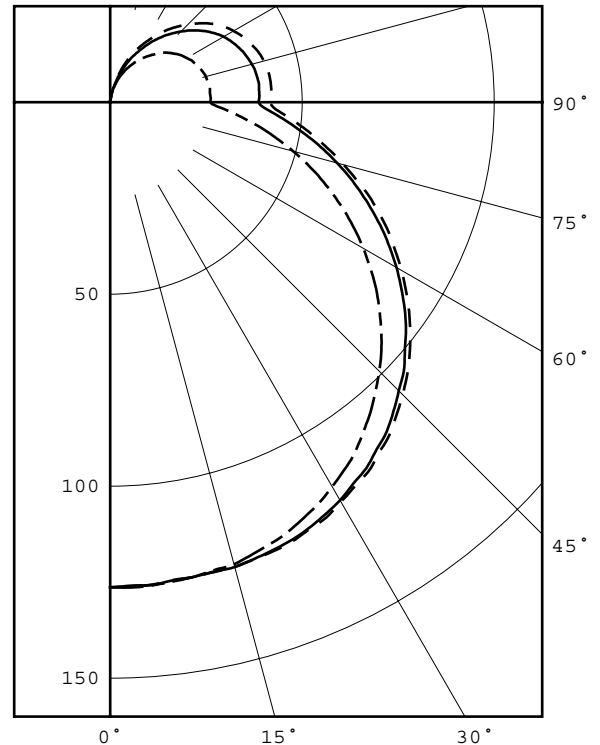
LED DRIVER: ESPEN VEL12030MVH-1

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

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



CANDELA DISTRIBUTION						FLUX
	0.0	45.0	90.0	135.0	180.0	
0	126	126	126	126	126	
5	126	126	126	126	126	12
15	125	124	125	124	125	35
25	123	123	122	121	119	56
35	117	119	116	116	111	73
45	108	112	106	107	99	83
55	95	101	94	95	85	85
65	80	87	78	80	67	79
75	63	72	61	64	49	68
85	47	57	44	48	32	53
90	42	52	39	42	26	
95	42	53	39	42	26	47
105	41	52	38	42	26	44
115	39	49	36	39	24	39
125	35	42	32	34	22	31
135	29	34	26	27	18	22
145	22	25	19	20	14	13
155	14	15	12	12	9	6
165	6	5	5	5	4	2
175	1	1	1	1	1	0
180	0	0	0	0	0	



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

ZONAL ZONE	LUMEN LUMENS	SUMMARY LUMENS	%FIXT
0- 30		104	13.9
0- 40		176	23.6
0- 60		344	46.1
0- 90		544	72.8
90-120		130	17.4
90-130		161	21.6
90-150		195	26.2
90-180		203	27.2
0-180		747	100.0

EFFICACY = 71.1 lm/W
CIE TYPE - SEMI-DIRECT
PLANE : 0-DEG 90-DEG 180-DEG
SPACING CRITERIA : 1.42 1.41 1.36

Checked B. HYRE
Approved R. BEATTIE
Lighting Engineer



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NVLAP LAB CODE: 200925-0

INDEPENDENT TESTING LABORATORIES, INC.
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LUMINANCE DATA IN CANDELA/SQ M

ANGLE IN DEG	AVERAGE 0-DEG	AVERAGE 90-DEG	AVERAGE 180-DEG
45	1753.	1619.	1613.
55	1692.	1510.	1505.
65	1627.	1383.	1371.
75	1549.	1243.	1212.
85	1521.	1101.	1043.



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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	126	126	126	126	126	126	126	126	126
5.0	126	126	126	126	126	126	126	126	126
10.0	126	125	126	125	126	126	126	126	126
15.0	125	125	124	125	125	125	124	125	125
20.0	124	124	124	124	124	124	123	122	122
25.0	123	122	123	122	122	122	121	120	119
30.0	120	120	121	120	120	120	119	116	116
35.0	117	118	119	117	116	117	116	113	111
40.0	113	114	116	114	112	112	112	108	105
45.0	108	110	112	109	106	107	107	102	99
50.0	102	104	106	104	100	102	101	96	92
55.0	95	98	101	97	94	95	95	90	85
60.0	88	92	94	91	86	88	87	82	76
65.0	80	84	87	84	78	81	80	74	67
70.0	72	77	80	76	70	73	72	66	58
75.0	63	69	72	68	61	64	64	57	49
80.0	55	61	64	60	53	56	55	49	41
85.0	47	54	57	52	44	48	48	41	32
90.0	42	49	52	47	39	43	42	35	26
95.0	42	50	53	48	39	43	42	35	26
100.0	42	49	53	47	39	43	42	35	26
105.0	41	49	52	47	38	42	42	35	26
110.0	40	47	51	45	37	41	41	33	25
115.0	39	45	49	43	36	39	39	32	24
120.0	37	43	46	41	34	37	37	30	23
125.0	35	39	42	38	32	35	34	28	22
130.0	32	36	38	34	29	31	31	25	20
135.0	29	32	34	30	26	28	27	22	18
140.0	25	27	30	26	23	24	24	20	16
145.0	22	23	25	22	19	21	20	16	14
150.0	18	19	20	17	16	17	16	13	11
155.0	14	14	15	13	12	13	12	10	9
160.0	10	10	10	9	9	9	8	7	7
165.0	6	6	5	5	5	5	5	5	4
170.0	2	2	2	2	2	2	2	2	2
175.0	1	1	1	1	1	1	1	1	1
180.0	0	0	0	0	0	0	0	0	0



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5-DEGREE
ZONAL LUMEN SUMMARY

0- 5	3
5- 10	9
10- 15	15
15- 20	20
20- 25	26
25- 30	31
30- 35	35
35- 40	38
40- 45	41
45- 50	42
50- 55	43
55- 60	42
60- 65	41
65- 70	39
70- 75	36
75- 80	32
80- 85	28
85- 90	25
90- 95	23
95-100	23
100-105	23
105-110	22
110-115	20
115-120	19
120-125	17
125-130	14
130-135	12
135-140	10
140-145	7
145-150	5
150-155	4
155-160	2
160-165	1
165-170	0
170-175	0
175-180	0

10-DEGREE
ZONAL LUMEN SUMMARY

0- 10	12
0- 20	47
0- 30	104
0- 40	176
0- 50	259
0- 60	344
0- 70	423
0- 80	491
0- 90	544
0-100	590
0-110	635
0-120	674
0-130	705
0-140	726
0-150	739
0-160	745
0-170	747
0-180	747



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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	113	113	113	113	113	107	107	107	107	96	96	96	86	86	86	77	77	77	73
1	100	94	88	84	84	94	89	84	80	79	76	72	71	68	65	63	61	59	54
2	89	80	72	66	66	84	76	69	63	68	62	57	60	56	52	53	50	47	43
3	81	69	60	53	53	76	65	57	51	59	52	46	52	47	42	46	42	38	35
4	73	61	51	44	44	69	57	49	42	51	44	39	46	40	35	41	36	32	29
5	67	54	44	37	37	63	51	42	36	46	38	33	41	35	30	36	31	27	24
6	62	48	39	32	32	58	45	37	31	41	34	28	37	31	26	33	28	24	21
7	57	43	34	28	28	54	41	33	27	37	30	25	33	27	23	30	25	21	18
8	53	39	30	24	24	50	37	29	24	34	27	22	30	24	20	27	22	18	16
9	49	36	27	22	22	46	34	26	21	31	24	19	28	22	18	25	20	16	14
10	46	33	25	19	19	43	31	24	19	28	22	17	26	20	16	23	18	15	13

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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