



PHONE: (303) 442-1255 • FAX: (970) 535-3114 • E-MAIL: itl@itlboulder.com • WEBSITE: www.itlboulder.com

REPORT NUMBER: ITL84578
ISSUE DATE: 05/06/15
PREPARED FOR: OXYGEN LIGHTING
CATALOG NUMBER: 3-619-XX

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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 RINGS WITH 3 VERTICAL SUPPORT RODS. DIFFUSER FROSTED SIDE OUT. THE 0-DEGREE PLANE IS PARALLEL WITH THE CIRCUIT BOARDS.

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

INPUT ELECTRICAL: 120.0 VOLTS, 20.8 WATTS, 0.176 AMPS

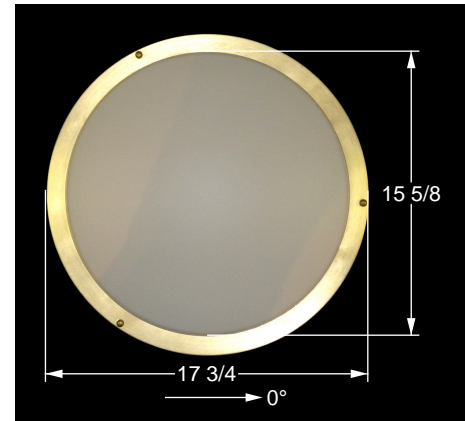
TOTAL REFLECTANCE OF PAINT = 80.4 %
MOUNTING: SURFACE

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.

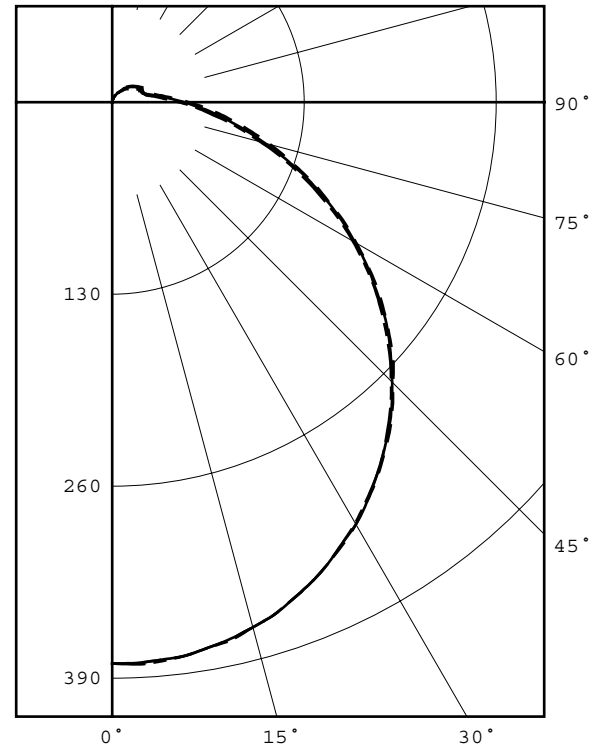
TEST PROCEDURE: IESNA LM-79-08

TEST DISTANCE = 20.0 FEET



CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0	FLUX
0	380	380	380	380	380	36
5	379	379	379	379	380	104
15	368	368	368	368	368	159
25	345	345	345	345	345	195
35	312	312	311	311	311	207
45	269	269	268	268	267	194
55	219	218	217	216	216	160
65	163	163	162	160	159	114
75	111	109	107	105	104	71
85	69	68	65	62	61	40
90	52	51	49	46	45	25
95	39	38	36	34	33	21
105	25	25	23	22	22	16
115	23	22	21	20	20	11
125	19	19	18	17	16	6
135	15	15	14	13	13	2
145	10	10	9	9	8	1
155	6	5	5	5	5	0
165	2	2	2	2	2	0
175	0	0	0	0	0	0
180	0	0	0	0	0	0



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

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%FIXT
0- 30	299	21.9
0- 40	494	36.2
0- 60	895	65.7
0- 90	1241	91.0
90-120	86	6.3
90-130	103	7.5
90-150	119	8.7
90-180	122	9.0
0-180	1363	100.0

EFFICACY = 65.5 lm/W

CIE TYPE - DIRECT

PLANE : 0-DEG 90-DEG

SPACING CRITERIA : 1.29 1.29

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	2929.	2918.	2907.
55	2801.	2775.	2762.
65	2610.	2594.	2546.
75	2404.	2317.	2252.
85	2111.	1989.	1866.



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CANDELA DISTRIBUTION
LATERAL ANGLE

	0.0	22.5	45.0	67.5	90.0
0.0	380	380	380	380	380
5.0	379	379	379	379	380
10.0	375	375	375	375	375
15.0	368	368	368	368	368
20.0	358	358	358	358	358
25.0	345	345	345	345	345
30.0	330	330	330	329	329
35.0	312	312	311	311	311
40.0	292	291	291	290	290
45.0	269	269	268	268	267
50.0	245	245	244	243	242
55.0	219	218	217	216	216
60.0	191	191	190	188	188
65.0	163	163	162	160	159
70.0	136	135	134	131	131
75.0	111	109	107	105	104
80.0	88	87	84	82	81
85.0	69	68	65	62	61
90.0	52	51	49	46	45
95.0	39	38	36	34	33
100.0	30	30	28	26	25
105.0	25	25	23	22	22
110.0	24	23	22	21	21
115.0	23	22	21	20	20
120.0	21	21	20	19	18
125.0	19	19	18	17	16
130.0	17	17	16	15	14
135.0	15	15	14	13	13
140.0	13	12	12	11	10
145.0	10	10	9	9	8
150.0	8	7	7	6	6
155.0	6	5	5	5	5
160.0	4	4	4	3	3
165.0	2	2	2	2	2
170.0	1	1	1	1	1
175.0	0	0	0	0	0
180.0	0	0	0	0	0



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5-DEGREE
ZONAL LUMEN SUMMARY

0- 5	9
5- 10	27
10- 15	44
15- 20	60
20- 25	74
25- 30	85
30- 35	94
35- 40	100
40- 45	104
45- 50	103
50- 55	100
55- 60	94
60- 65	85
65- 70	75
70- 75	63
75- 80	51
80- 85	40
85- 90	31
90- 95	23
95-100	17
100-105	14
105-110	12
110-115	11
115-120	10
120-125	9
125-130	7
130-135	6
135-140	5
140-145	3
145-150	2
150-155	1
155-160	1
160-165	0
165-170	0
170-175	0
175-180	0

10-DEGREE
ZONAL LUMEN SUMMARY

0- 10	36
0- 20	140
0- 30	299
0- 40	494
0- 50	701
0- 60	895
0- 70	1055
0- 80	1169
0- 90	1241
0-100	1281
0-110	1306
0-120	1327
0-130	1343
0-140	1354
0-150	1360
0-160	1362
0-170	1363
0-180	1363



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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	117	117	117	117	117	113	113	113	113	106	106	106	100	100	100	94	94	94	91
1	105	99	95	90	101	96	92	88	90	87	83	85	82	79	80	77	75	72	72
2	95	86	78	72	91	83	76	70	78	72	67	73	69	65	69	65	62	59	59
3	86	75	66	59	83	73	65	58	68	61	56	64	59	54	60	56	52	49	49
4	79	66	57	50	75	64	55	49	60	53	47	57	51	46	54	48	44	41	41
5	72	59	49	42	69	57	48	42	54	46	41	51	44	39	48	43	38	36	36
6	66	53	43	37	64	51	43	36	49	41	35	46	39	34	44	38	33	31	31
7	62	48	39	32	59	46	38	32	44	37	31	42	35	30	40	34	29	27	27
8	57	43	35	29	55	42	34	28	40	33	28	38	32	27	36	31	26	24	24
9	53	40	31	26	51	39	31	25	37	30	25	35	29	24	34	28	24	22	22
10	50	37	29	23	48	36	28	23	34	27	22	33	26	22	31	26	21	20	20

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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