

REPORT NUMBER: ITL80649

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ISSUE DATE: 02/13/14

PREPARED FOR: PRECISION ARCHITECTURAL LIGHTING

CATALOG NUMBER: MLS2-I/D-MO/MO-35K-4-XX-OP/LOH-UNV

LUMINAIRE: EXTRUDED METAL HOUSING WITH WHITE PAINTED GENERAL INTERIOR FINISH AND FABRICATED WHITE PAINTED METAL END CAPS. TWO DISTINCT OPTICAL COMPARTMENTS EACH WITH FORMED WHITE PAINTED METAL REFLECTOR/CIRCUIT BOARD MOUNT, 4 CIRCUIT BOARDS EACH WITH 30 LEDS. EXTRUDED CLEAR PLASTIC BOTTOM LENS WITH WHITE SIDES AND HOLOGRAPHIC PLASTIC OVERLAY. OPEN TOP.

LAMPS: TWO HUNDRED FORTY WHITE LIGHT EMITTING DIODES (LEDS), 120 VERTICAL BASE-UP POSITION, 120 VERTICAL BASE-DOWN POSITION.

TOTAL INPUT WATTS = 49.3 AT 120.0 VOLTS

MOUNTING: SUSPENDED

LED DRIVERS: TWO OSRAM OT30W/PRG1050C/UNV/DIM/L, DRIVERS HAVE MULTIPLE LEADS, ONLY LINE INPUT AND LED OUTPUT LEADS CONNECTED FOR THIS TEST, CLIENT STATES EACH DRIVER PROGRAMMED FOR 500mA OUTPUT.

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

TEST PROCEDURE: IESNA LM-79-08

TEST DISTANCE = 35.0 FEET

CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	1037	1037	1037	1037	1037
5	1034	1022	1025	1022	1018
15	967	942	912	879	864
25	810	768	709	661	642
35	582	545	498	465	453
45	411	391	362	337	327
55	311	299	278	256	247
65	212	206	190	174	168
75	99	94	85	75	72
85	13	13	11	10	10
90	0	0	0	0	0
95	22	10	8	10	11
105	177	186	44	43	38
115	365	396	378	56	61
125	563	573	585	580	569
135	713	720	733	735	733
145	836	837	849	848	846
155	927	924	935	934	932
165	988	981	991	990	988
175	1018	1010	1017	1014	1012
180	1019	1019	1019	1019	1019

FLUX

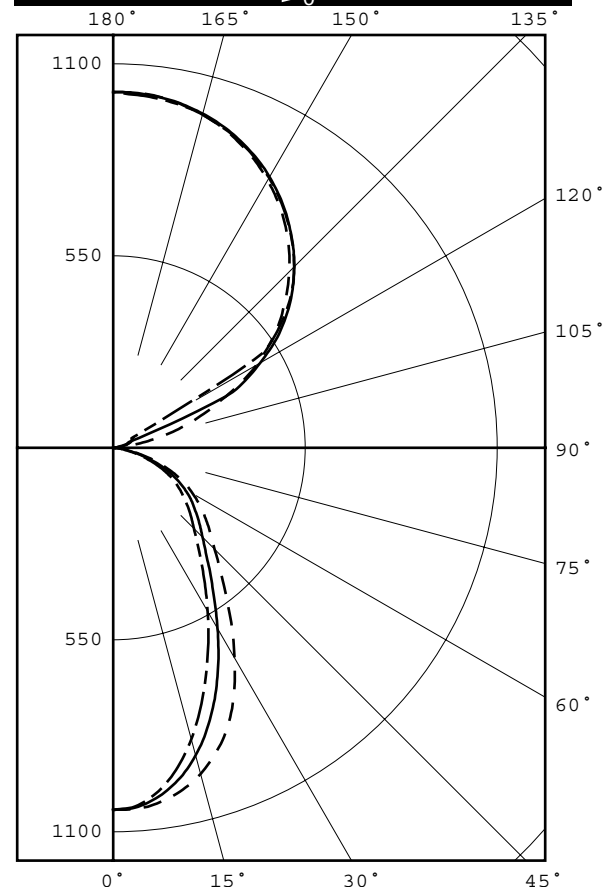
96
255
328
318
284
248
187
91
16
14
93
258
508
561
528
429
279
96

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%FIXT
0- 30	679	14.8
0- 40	998	21.7
0- 60	1530	33.3
0- 90	1824	39.7
90-120	365	8.0
90-130	873	19.0
90-150	1962	42.7
90-180	2767	60.3
0-180	4590	100.0

EFFICACY = 93.1 lm/W

CIE TYPE - SEMI-INDIRECT

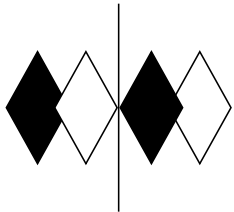


LEGEND:

0-deg	---
45-deg	---
90-deg	---

Checked B. HYRE

Approved R. BEATTIE
Lighting Engineer



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PLANE : 0-DEG 90-DEG
LUMINOUS LENGTH : 47.000 1.937

LUMINANCE DATA IN CANDELA/SQ M			
ANGLE	AVERAGE	AVERAGE	AVERAGE
IN DEG	0-DEG	45-DEG	90-DEG
45	9894.	8714.	7871.
55	9229.	8250.	7330.
65	8538.	7652.	6766.
75	6511.	5590.	4735.
85	2539.	2148.	1953.



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CANDELA DISTRIBUTION
LATERAL ANGLE

	0.0	22.5	45.0	67.5	90.0
0.0	1037	1037	1037	1037	1037
5.0	1034	1022	1025	1022	1018
10.0	1010	992	982	965	957
15.0	967	942	912	879	864
20.0	902	866	818	771	753
25.0	810	768	709	661	642
30.0	695	654	598	557	541
35.0	582	545	498	465	453
40.0	485	456	420	392	381
45.0	411	391	362	337	327
50.0	358	342	318	294	286
55.0	311	299	278	256	247
60.0	264	254	236	217	210
65.0	212	206	190	174	168
70.0	156	152	139	125	120
75.0	99	94	85	75	72
80.0	46	44	40	36	34
85.0	13	13	11	10	10
90.0	0	0	0	0	0
95.0	22	10	8	10	11
100.0	86	31	24	16	14
105.0	177	186	44	43	38
110.0	267	293	47	56	56
115.0	365	396	378	56	61
120.0	474	487	486	452	169
125.0	563	573	585	580	569
130.0	640	649	665	665	661
135.0	713	720	733	735	733
140.0	779	784	794	795	793
145.0	836	837	849	848	846
150.0	885	885	896	895	893
155.0	927	924	935	934	932
160.0	962	956	967	966	964
165.0	988	981	991	990	988
170.0	1007	999	1008	1006	1003
175.0	1018	1010	1017	1014	1012
180.0	1019	1019	1019	1019	1019



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5-DEGREE

ZONAL LUMEN SUMMARY

0- 5	25
5- 10	72
10- 15	112
15- 20	143
20- 25	161
25- 30	167
30- 35	163
35- 40	155
40- 45	146
45- 50	138
50- 55	130
55- 60	119
60- 65	104
65- 70	83
70- 75	58
75- 80	33
80- 85	13
85- 90	3
90- 95	3
95-100	11
100-105	31
105-110	62
110-115	99
115-120	159
120-125	239
125-130	268
130-135	280
135-140	281
140-145	272
145-150	255
150-155	231
155-160	199
160-165	161
165-170	118
170-175	72
175-180	24

10-DEGREE

ZONAL LUMEN SUMMARY

0- 10	96
0- 20	351
0- 30	679
0- 40	998
0- 50	1281
0- 60	1530
0- 70	1717
0- 80	1808
0- 90	1824
0-100	1838
0-110	1931
0-120	2189
0-130	2697
0-140	3258
0-150	3786
0-160	4215
0-170	4494
0-180	4590



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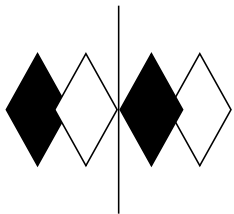
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	105	105	105	105	95	95	95	95	78	78	78	62	62	62	47	47	47	40
1	96	92	88	85	87	84	81	78	69	66	64	55	53	52	42	41	40	34
2	88	81	75	70	80	74	69	64	61	57	54	48	46	44	37	36	34	29
3	80	71	64	59	73	65	59	54	54	49	46	43	40	38	33	31	30	25
4	74	63	56	50	67	58	51	46	48	43	39	39	35	33	30	28	26	22
5	68	57	49	43	61	52	45	40	43	38	34	35	31	29	27	25	23	20
6	62	51	43	38	57	47	40	35	39	34	30	32	28	25	25	23	21	18
7	58	46	38	33	53	42	36	31	36	30	27	29	25	23	23	20	18	16
8	54	42	34	29	49	39	32	28	33	27	24	27	23	20	21	19	17	14
9	50	38	31	26	46	35	29	25	30	25	22	25	21	18	20	17	15	13
10	47	35	28	24	43	33	26	22	28	23	20	23	19	17	18	16	14	12

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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