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ISSUE DATE: 08/06/13

PREPARED FOR: PRECISION ARCHITECTURAL LIGHTING

CATALOG NUMBER: MLS5-I/D-HO/MO-K35-4-XX-LOH-120

LUMINAIRE: EXTRUDED 2-PIECE METAL HOUSING WITH WHITE PAINTED GENERAL INTERIOR FINISH, FABRICATED METAL END CAPS WITH WHITE PAINTED INTERIOR. TWO DISTINCT OPTICAL COMPARTMENTS EACH WITH FORMED WHITE PAINTED METAL REFLECTOR/CIRCUIT BOARD MOUNT, 2 FORMED WHITE PAINTED METAL SIDE REFLECTORS AND 4 WHITE CIRCUIT BOARDS EACH WITH 36 LEDS. EXTRUDED CLEAR PLASTIC BOTTOM DIFFUSER WITH WHITE SIDES AND HOLOGRAPHIC PLASTIC OVERLAY. OPEN TOP.

LAMPS: TWO HUNDRED EIGHTY-EIGHT WHITE LIGHT EMITTING DIODES (LEDS), 144 VERTICAL BASE-UP POSITION, 144 VERTICAL BASE-DOWN POSITION.

TOTAL INPUT WATTS = 75.3 AT 120.0 VOLTS

MOUNTING: SUSPENDED

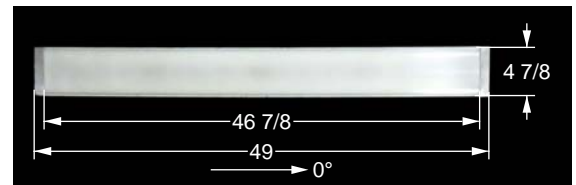
LED DRIVER:

OSRAM OT25W/4X160C/UNV/DIM (LOWER),
OSRAM OT50W/4X300C/UNV/DIM (UPPER)
(NO INPUT TO DIMMING LEADS FOR THIS TEST.)

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

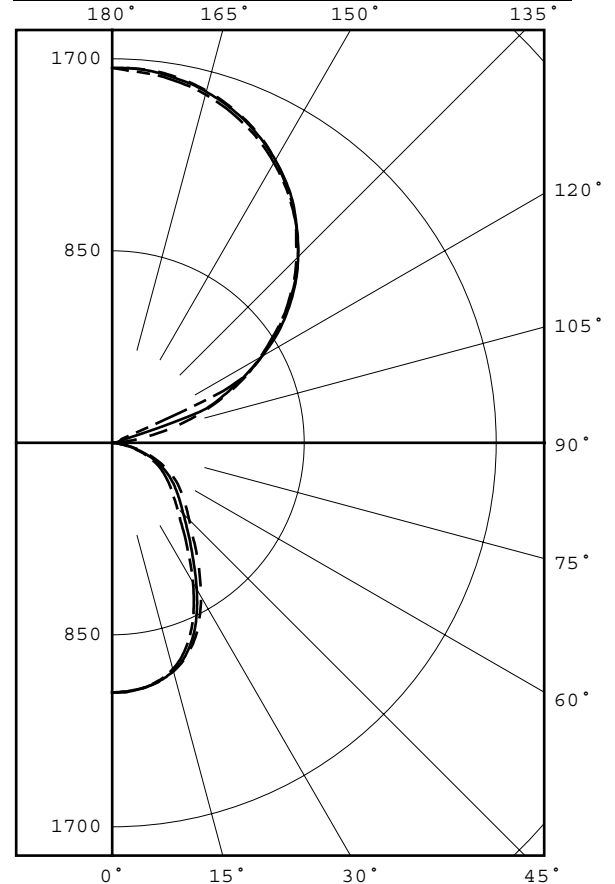
TEST PROCEDURE: IESNA LM-79-08

TEST DISTANCE = 35.0 FEET



CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0	FLUX
0	1105	1105	1105	1105	1105	
5	1101	1092	1101	1103	1099	104
15	1047	1039	1046	1043	1037	292
25	900	888	877	861	849	400
35	667	648	624	600	585	392
45	482	470	446	418	406	346
55	371	360	338	313	304	302
65	261	251	235	219	213	232
75	127	123	113	104	102	121
85	17	16	15	14	14	22
90	0	0	0	0	0	
95	51	17	20	21	21	27
105	303	298	34	37	38	163
115	616	622	599	604	542	548
125	907	906	920	905	900	810
135	1153	1149	1164	1169	1164	894
145	1359	1350	1366	1361	1354	850
155	1516	1505	1512	1506	1499	695
165	1613	1599	1609	1602	1596	453
175	1659	1646	1657	1650	1644	157
180	1660	1660	1660	1660	1660	



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

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%FIXT
0- 30	796	11.7
0- 40	1189	17.5
0- 60	1836	27.0
0- 90	2210	32.5
90-120	737	10.8
90-130	1547	22.7
90-150	3291	48.4
90-180	4596	67.5
0-180	6806	100.0

EFFICACY = 90.4 lm/W
CIE TYPE - SEMI-INDIRECT

Checked N WHITE
Approved R BEATTIE
Lighting Engineer



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PLANE : 0-DEG 90-DEG
 LUMINOUS LENGTH : 46.875 4.875

LUMINANCE DATA IN CANDELA/SQ M

ANGLE IN DEG	AVERAGE 0-DEG	AVERAGE 45-DEG	AVERAGE 90-DEG
45	4624.	4278.	3895.
55	4387.	3997.	3595.
65	4189.	3772.	3419.
75	3328.	2961.	2673.
85	1323.	1167.	1090.



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CANDELA DISTRIBUTION
LATERAL ANGLE

	0.0	22.5	45.0	67.5	90.0
0.0	1105	1105	1105	1105	1105
5.0	1101	1092	1101	1103	1099
10.0	1082	1074	1083	1083	1079
15.0	1047	1039	1046	1043	1037
20.0	988	978	979	969	960
25.0	900	888	877	861	849
30.0	788	769	749	728	715
35.0	667	648	624	600	585
40.0	561	546	523	495	481
45.0	482	470	446	418	406
50.0	423	412	388	361	349
55.0	371	360	338	313	304
60.0	319	308	289	268	260
65.0	261	251	235	219	213
70.0	196	189	176	164	160
75.0	127	123	113	104	102
80.0	62	60	54	50	49
85.0	17	16	15	14	14
90.0	0	0	0	0	0
95.0	51	17	20	21	21
100.0	159	68	29	34	34
105.0	303	298	34	37	38
110.0	459	465	445	42	41
115.0	616	622	599	604	542
120.0	765	768	765	749	757
125.0	907	906	920	905	900
130.0	1033	1036	1050	1047	1042
135.0	1153	1149	1164	1169	1164
140.0	1264	1259	1268	1271	1265
145.0	1359	1350	1366	1361	1354
150.0	1441	1438	1445	1439	1432
155.0	1516	1505	1512	1506	1499
160.0	1571	1557	1567	1560	1553
165.0	1613	1599	1609	1602	1596
170.0	1643	1629	1638	1632	1626
175.0	1659	1646	1657	1650	1644
180.0	1660	1660	1660	1660	1660



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5-DEGREE
ZONAL LUMEN SUMMARY

0- 5	26
5- 10	78
10- 15	126
15- 20	166
20- 25	194
25- 30	205
30- 35	202
35- 40	190
40- 45	178
45- 50	167
50- 55	157
55- 60	145
60- 65	128
65- 70	105
70- 75	76
75- 80	45
80- 85	18
85- 90	3
90- 95	6
95-100	21
100-105	54
105-110	109
110-115	216
115-120	332
120-125	386
125-130	424
130-135	445
135-140	449
140-145	438
145-150	412
150-155	373
155-160	322
160-165	261
165-170	192
170-175	118
175-180	40

10-DEGREE
ZONAL LUMEN SUMMARY

0- 10	104
0- 20	397
0- 30	796
0- 40	1189
0- 50	1534
0- 60	1836
0- 70	2068
0- 80	2189
0- 90	2210
0-100	2237
0-110	2399
0-120	2947
0-130	3757
0-140	4652
0-150	5501
0-160	6196
0-170	6649
0-180	6806



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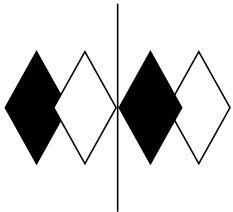
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	103	103	103	103	93	93	93	93	74	74	74	56	56	56	40	40	40	32	
1	94	90	86	83	85	81	78	75	65	63	61	50	48	47	36	35	34	28	
2	86	79	73	68	77	71	66	62	57	54	51	44	42	40	32	30	29	24	
3	78	70	63	57	70	63	57	52	51	46	43	39	36	34	28	27	25	20	
4	72	62	54	48	65	56	49	44	45	40	37	35	32	29	26	24	22	18	
5	66	55	47	42	59	50	43	38	40	36	32	31	28	26	23	21	19	16	
6	61	49	42	36	55	45	38	33	36	32	28	29	25	22	21	19	17	14	
7	56	45	37	32	51	41	34	29	33	28	25	26	23	20	19	17	15	13	
8	52	40	33	28	47	37	30	26	30	25	22	24	20	18	18	16	14	11	
9	49	37	30	25	44	34	27	23	28	23	20	22	19	16	17	14	13	10	
10	45	34	27	22	41	31	25	21	26	21	18	20	17	15	15	13	12	10	

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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