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ISSUE DATE: 02/18/14

PREPARED FOR: PRECISION ARCHITECTURAL LIGHTING

CATALOG NUMBER: MLP2-IASY/D-MO/MO-35K-4-XX-OP/LOH-UNV

LUMINAIRE: EXTRUDED METAL HOUSING WITH WHITE PAINTED GENERAL INTERIOR FINISH AND FABRICATED 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 TILTED 45-DEGREES VERTICAL BASE-DOWN POSITION.

TOTAL INPUT WATTS = 49.5 AT 120.0 VOLTS

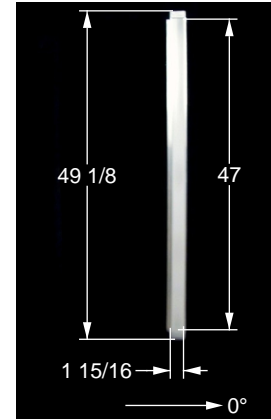
MOUNTING: WALL

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.

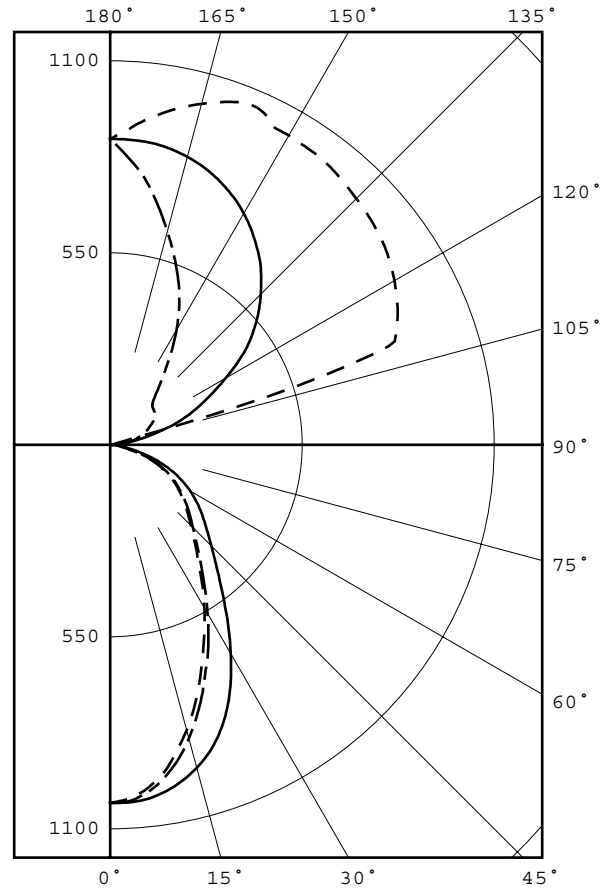
TEST PROCEDURE: IESNA LM-79-08

TEST DISTANCE = 35.0 FEET



CANDELA DISTRIBUTION

	0.0	45.0	90.0	135.0	180.0	FLUX
0	1026	1026	1026	1026	1026	95
5	1001	1011	1023	1015	1010	253
15	846	897	958	915	871	328
25	633	699	804	722	662	319
35	451	494	577	508	465	285
45	327	359	410	369	335	250
55	247	276	311	283	253	189
65	169	189	214	195	175	92
75	71	83	99	86	75	16
85	10	11	13	11	9	31
90	0	0	0	0	0	230
95	2	2	21	37	42	409
105	28	623	145	79	85	445
115	909	736	300	118	126	452
125	966	818	473	142	156	426
135	997	894	610	240	173	357
145	1020	955	720	397	289	236
155	1047	1000	802	553	469	83
165	1011	969	854	703	633	
175	924	915	875	830	805	
180	876	876	876	876	876	



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

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%FIXT
0- 30	677	15.1
0- 40	996	22.2
0- 60	1531	34.1
0- 90	1827	40.7
90-120	670	14.9
90-130	1115	24.8
90-150	1993	44.3
90-180	2668	59.3
0-180	4495	100.0

EFFICACY = 90.8 lm/W
CIE TYPE - GENERAL DIFFUSE
PLANE : 0-DEG 90-DEG 180-DEG
SPACING CRITERIA : 0.87 1.06 0.90

Checked M KLOPF
Approved R BEATTIE
Lighting Engineer



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

LUMINANCE DATA IN CANDELA/SQ M

ANGLE IN DEG	AVERAGE 0-DEG	AVERAGE 90-DEG	AVERAGE 180-DEG
45	7871.	9869.	8064.
55	7330.	9229.	7508.
65	6807.	8619.	7048.
75	4669.	6511.	4932.
85	1953.	2539.	1758.



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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	1026	1026	1026	1026	1026	1026	1026	1026	1026
5.0	1001	1007	1011	1007	1023	1010	1015	1015	1010
10.0	940	950	968	978	1000	984	978	966	956
15.0	846	861	897	927	958	938	915	886	871
20.0	740	760	805	852	895	868	827	786	767
25.0	633	653	699	756	804	773	722	676	662
30.0	539	553	591	645	691	661	611	570	558
35.0	451	462	494	540	577	552	508	474	465
40.0	382	391	416	452	481	461	427	399	391
45.0	327	337	359	388	410	394	369	343	335
50.0	285	294	316	338	356	345	323	300	293
55.0	247	257	276	297	311	301	283	261	253
60.0	211	219	236	253	265	257	242	222	216
65.0	169	176	189	205	214	209	195	179	175
70.0	122	126	137	152	158	154	142	128	125
75.0	71	74	83	94	99	96	86	77	75
80.0	34	35	38	44	46	45	40	35	35
85.0	10	10	11	12	13	13	11	9	9
90.0	0	0	0	0	0	0	0	0	0
95.0	2	2	2	4	21	26	37	42	42
100.0	7	7	8	298	76	45	57	64	64
105.0	28	143	623	379	145	65	79	84	85
110.0	867	823	679	457	227	81	100	105	106
115.0	909	868	736	528	300	114	118	125	126
120.0	940	904	780	594	382	167	129	143	145
125.0	966	933	818	655	473	236	142	152	156
130.0	984	953	859	754	546	309	180	158	161
135.0	997	973	894	812	610	379	240	183	173
140.0	1011	991	922	844	670	451	315	236	217
145.0	1020	1003	955	868	720	523	397	314	289
150.0	1023	1009	1000	886	765	591	476	404	381
155.0	1047	1046	1000	898	802	660	553	488	469
160.0	1045	1032	987	907	832	720	627	568	550
165.0	1011	1001	969	908	854	771	703	648	633
170.0	971	965	946	901	869	812	773	735	723
175.0	924	922	915	889	875	846	830	811	805
180.0	876	876	876	876	876	876	876	876	876



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5-DEGREE
ZONAL LUMEN SUMMARY

0- 5	24
5- 10	71
10- 15	111
15- 20	142
20- 25	161
25- 30	167
30- 35	164
35- 40	155
40- 45	146
45- 50	138
50- 55	130
55- 60	120
60- 65	105
65- 70	84
70- 75	59
75- 80	33
80- 85	13
85- 90	2
90- 95	5
95-100	26
100-105	70
105-110	159
110-115	198
115-120	211
120-125	220
125-130	225
130-135	227
135-140	225
140-145	218
145-150	207
150-155	190
155-160	166
160-165	135
165-170	100
170-175	62
175-180	21

10-DEGREE
ZONAL LUMEN SUMMARY

0- 10	95
0- 20	349
0- 30	677
0- 40	996
0- 50	1281
0- 60	1531
0- 70	1720
0- 80	1812
0- 90	1827
0-100	1858
0-110	2088
0-120	2497
0-130	2943
0-140	3395
0-150	3820
0-160	4177
0-170	4413
0-180	4495



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

NOTE: THE ZONAL CAVITY CALCULATION TECHNIQUE IS ACCURATE WHEN LUMINAIRES WITH SYMMETRIC CANDELA DISTRIBUTIONS ARE EMPLOYED AND WHEN THE LUMINAIRES ARE LOCATED SYMMETRICALLY THROUGHOUT THE ROOM. THIS UNIT HAS SPECIAL CHARACTERISTICS AND THEREFORE THESE COEFFICIENTS SHOULD BE USED WITH CAUTION.



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