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ISSUE DATE: 02/10/14

PREPARED FOR: PRECISION ARCHITECTURAL LIGHTING

CATALOG NUMBER: MLP2-IASY/D-HO/HO-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 = 81.5 AT 120.0 VOLTS

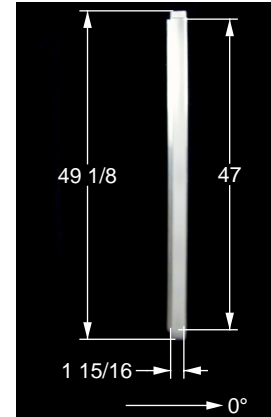
MOUNTING: WALL

LED DRIVERS: TWO OSRAM OT50W/PRG1400C/UNV/DIM/L, DRIVERS HAVE MULTIPLE LEADS, ONLY LINE INPUT AND LED OUTPUT LEADS CONNECTED FOR THIS TEST, CLIENT STATES EACH DRIVER PROGRAMMED FOR 800mA 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

FLUX

	0.0	45.0	90.0	135.0	180.0	
0	1515	1515	1515	1515	1515	
5	1491	1495	1503	1497	1484	141
15	1273	1339	1414	1336	1265	374
25	966	1056	1188	1049	948	486
35	691	752	857	740	671	475
45	499	544	609	538	486	424
55	379	419	461	414	367	373
65	265	294	319	284	249	284
75	121	137	151	125	103	140
85	20	22	20	15	12	25
90	0	0	0	0	0	
95	4	4	32	56	61	50
105	50	947	216	118	127	356
115	1383	1121	454	177	189	622
125	1478	1242	712	213	235	676
135	1526	1356	922	357	257	685
145	1559	1461	1094	582	427	644
155	1605	1518	1220	826	687	540
165	1540	1471	1302	1055	949	357
175	1409	1387	1327	1252	1211	125
180	1327	1327	1327	1327	1327	

ZONAL LUMEN SUMMARY

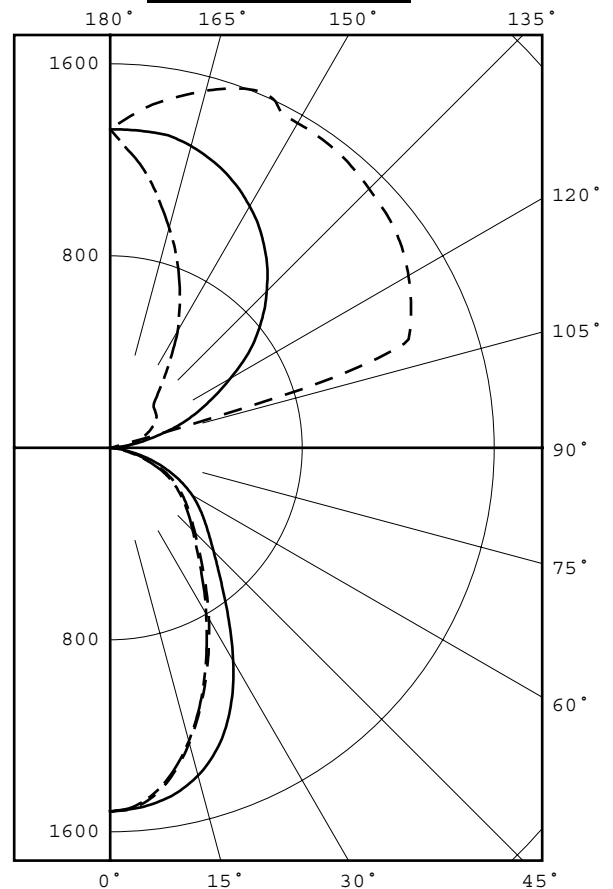
ZONE	LUMENS	%FIXT
0- 30	1001	14.8
0- 40	1476	21.8
0- 60	2273	33.5
0- 90	2722	40.2
90-120	1028	15.2
90-130	1703	25.1
90-150	3033	44.8
90-180	4055	59.8
0-180	6777	100.0

EFFICACY = 83.2 lm/W

CIE TYPE - GENERAL DIFFUSE

PLANE : 0-DEG 90-DEG 180-DEG

SPACING CRITERIA : 0.89 1.06 0.88



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

Checked B. HYRE
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	12012.	14660.	11699.
55	11247.	13681.	10891.
65	10673.	12848.	10029.
75	7958.	9931.	6774.
85	3906.	3906.	2344.



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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	1515	1515	1515	1515	1515	1515	1515	1515	1515
5.0	1491	1496	1495	1501	1503	1496	1497	1492	1484
10.0	1406	1417	1437	1454	1473	1451	1436	1414	1397
15.0	1273	1295	1339	1380	1414	1377	1336	1292	1265
20.0	1119	1147	1208	1273	1321	1271	1204	1141	1110
25.0	966	995	1056	1133	1188	1130	1049	978	948
30.0	823	847	899	972	1025	967	886	824	800
35.0	691	712	752	815	857	809	740	687	671
40.0	582	598	633	683	715	678	624	580	565
45.0	499	513	544	584	609	581	538	500	486
50.0	435	447	477	510	528	509	473	438	424
55.0	379	392	419	447	461	446	414	380	367
60.0	325	337	360	383	394	381	352	322	311
65.0	265	275	294	313	319	309	284	258	249
70.0	194	203	218	233	236	228	206	183	176
75.0	121	126	137	148	151	141	125	108	103
80.0	60	63	67	71	71	66	57	50	47
85.0	20	21	22	22	20	18	15	14	12
90.0	0	0	0	0	0	0	0	0	0
95.0	4	4	4	7	32	38	56	61	61
100.0	12	12	13	457	117	68	86	94	96
105.0	50	294	947	577	216	97	118	124	127
110.0	1323	1258	1032	697	342	122	149	155	157
115.0	1383	1327	1121	802	454	169	177	187	189
120.0	1435	1381	1183	898	579	247	194	214	217
125.0	1478	1424	1242	997	712	348	213	229	235
130.0	1507	1454	1305	1147	823	461	269	238	243
135.0	1526	1482	1356	1235	922	569	357	272	257
140.0	1547	1507	1397	1278	1015	677	463	353	324
145.0	1559	1527	1461	1316	1094	787	582	467	427
150.0	1562	1537	1522	1345	1162	892	706	597	562
155.0	1605	1595	1518	1364	1220	996	826	728	687
160.0	1593	1571	1500	1376	1266	1089	941	856	820
165.0	1540	1524	1471	1378	1302	1166	1055	978	949
170.0	1478	1470	1435	1368	1325	1227	1164	1111	1085
175.0	1409	1405	1387	1349	1327	1279	1252	1226	1211
180.0	1327	1327	1327	1327	1327	1327	1327	1327	1327



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5-DEGREE
ZONAL LUMEN SUMMARY

0- 5	36
5- 10	105
10- 15	164
15- 20	210
20- 25	238
25- 30	248
30- 35	244
35- 40	231
40- 45	218
45- 50	206
50- 55	194
55- 60	179
60- 65	157
65- 70	127
70- 75	89
75- 80	51
80- 85	21
85- 90	4
90- 95	7
95-100	43
100-105	110
105-110	246
110-115	301
115-120	320
120-125	333
125-130	342
130-135	345
135-140	340
140-145	330
145-150	314
150-155	288
155-160	252
160-165	205
165-170	152
170-175	94
175-180	32

10-DEGREE
ZONAL LUMEN SUMMARY

0- 10	141
0- 20	515
0- 30	1001
0- 40	1476
0- 50	1900
0- 60	2273
0- 70	2556
0- 80	2697
0- 90	2722
0-100	2772
0-110	3128
0-120	3750
0-130	4426
0-140	5111
0-150	5755
0-160	6295
0-170	6652
0-180	6777



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