

REPORT NUMBER: ITL80650

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ISSUE DATE: 02/14/14

PREPARED FOR: PRECISION ARCHITECTURAL LIGHTING

CATALOG NUMBER: MLS2-I/D-MO/HO-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 = 65.3 AT 120.0 VOLTS

MOUNTING: SUSPENDED

LED DRIVER: OSRAM OT50W/PRG1400C/UNV/DIM/L, CLIENT STATES DRIVER PROGRAMMED FOR 800mA OUTPUT. OSRAM OT30W/PRG1050C/UNV/DIM/L, CLIENT STATES DRIVER PROGRAMMED FOR 500mA OUTPUT. BOTH DRIVERS HAVE MULTIPLE LEADS, ONLY LINE INPUT AND LED OUTPUT LEADS CONNECTED 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	1556	1556	1556	1556	1556	
5	1548	1531	1538	1534	1527	145
15	1449	1412	1366	1318	1293	382
25	1215	1151	1062	992	962	492
35	870	818	747	697	677	477
45	616	588	543	505	492	425
55	465	449	417	384	372	373
65	318	309	285	262	254	281
75	147	140	125	112	109	136
85	18	19	16	15	15	23
90	0	0	0	0	0	
95	24	10	8	9	10	14
105	177	188	43	42	38	91
115	362	392	377	54	60	258
125	555	565	577	572	562	503
135	708	710	724	727	727	555
145	832	828	838	839	837	523
155	922	915	924	923	923	425
165	981	971	980	978	977	276
175	1008	1000	1006	1003	1002	95
180	1008	1008	1008	1008	1008	

ZONAL LUMEN SUMMARY

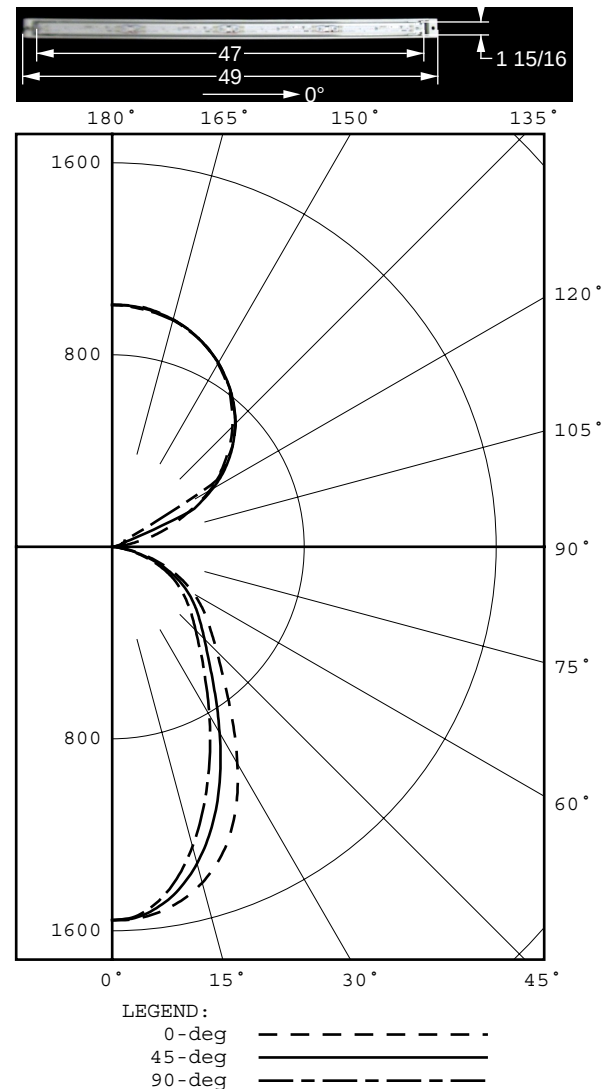
ZONE	LUMENS	%FIXT
0- 30	1019	18.6
0- 40	1495	27.3
0- 60	2294	41.9
0- 90	2733	49.9
90-120	363	6.6
90-130	866	15.8
90-150	1943	35.5
90-180	2740	50.1
0-180	5473	100.0

EFFICACY = 83.8 lm/W

CIE TYPE - GENERAL DIFFUSE

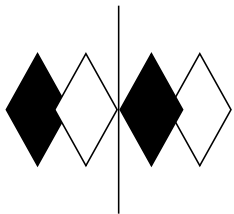
PLANE : 0-DEG 90-DEG

SPACING CRITERIA : 1.05 0.87



Checked M. KLOPF

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	14828.	13071.	11843.	
55	13799.	12375.	11039.	
65	12808.	11479.	10230.	
75	9668.	8221.	7168.	
85	3515.	3125.	2929.	



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CANDELA DISTRIBUTION
LATERAL ANGLE

	0.0	22.5	45.0	67.5	90.0
0.0	1556	1556	1556	1556	1556
5.0	1548	1531	1538	1534	1527
10.0	1513	1488	1473	1449	1434
15.0	1449	1412	1366	1318	1293
20.0	1353	1299	1225	1156	1127
25.0	1215	1151	1062	992	962
30.0	1043	981	895	835	810
35.0	870	818	747	697	677
40.0	724	684	629	587	573
45.0	616	588	543	505	492
50.0	534	513	476	442	429
55.0	465	449	417	384	372
60.0	394	382	355	325	316
65.0	318	309	285	262	254
70.0	235	227	207	187	181
75.0	147	140	125	112	109
80.0	68	66	58	53	52
85.0	18	19	16	15	15
90.0	0	0	0	0	0
95.0	24	10	8	9	10
100.0	87	33	24	16	13
105.0	177	188	43	42	38
110.0	266	290	45	54	55
115.0	362	392	377	54	60
120.0	470	483	482	472	211
125.0	555	565	577	572	562
130.0	635	644	655	657	654
135.0	708	710	724	727	727
140.0	773	774	785	786	786
145.0	832	828	838	839	837
150.0	881	876	885	885	884
155.0	922	915	924	923	923
160.0	956	946	956	955	953
165.0	981	971	980	978	977
170.0	999	989	996	994	992
175.0	1008	1000	1006	1003	1002
180.0	1008	1008	1008	1008	1008



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5-DEGREE

ZONAL LUMEN SUMMARY

0- 5	37
5- 10	108
10- 15	168
15- 20	214
20- 25	241
25- 30	250
30- 35	245
35- 40	232
40- 45	219
45- 50	207
50- 55	195
55- 60	178
60- 65	156
65- 70	125
70- 75	87
75- 80	49
80- 85	20
85- 90	4
90- 95	3
95-100	11
100-105	31
105-110	61
110-115	99
115-120	159
120-125	238
125-130	265
130-135	277
135-140	278
140-145	270
145-150	253
150-155	228
155-160	197
160-165	159
165-170	117
170-175	71
175-180	24

10-DEGREE

ZONAL LUMEN SUMMARY

0- 10	145
0- 20	527
0- 30	1019
0- 40	1495
0- 50	1921
0- 60	2294
0- 70	2574
0- 80	2710
0- 90	2733
0-100	2747
0-110	2839
0-120	3097
0-130	3600
0-140	4154
0-150	4677
0-160	5102
0-170	5377
0-180	5473



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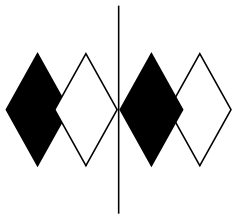
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50
1	98	94	90	87	91	87	84	81	74	72	69	62	60	59	50	49	48	43
2	90	83	77	72	83	77	72	67	65	62	58	55	52	50	45	43	41	37
3	82	73	66	61	76	68	62	57	58	53	50	49	45	43	40	38	36	32
4	76	65	58	52	70	61	54	49	52	47	43	44	40	37	36	34	31	28
5	70	58	51	45	64	54	47	42	47	41	37	40	36	33	33	30	28	25
6	64	53	45	39	59	49	42	37	42	37	33	36	32	29	30	27	25	22
7	60	48	40	35	55	45	38	33	39	33	29	33	29	26	28	25	22	20
8	56	44	36	31	51	41	34	29	36	30	26	31	26	23	26	23	20	18
9	52	40	33	28	48	38	31	26	33	27	24	28	24	21	24	21	19	16
10	49	37	30	25	45	35	28	24	30	25	22	26	22	19	22	19	17	15

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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