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ISSUE DATE: 08/08/13

PREPARED FOR: PRECISION ARCHITECTURAL LIGHTING

CATALOG NUMBER: MLS3-I/D-MO/MO-K35-4-XX-LOH-120

LUMINAIRE: EXTRUDED 2-PIECE METAL HOUSING WITH WHITE PAINTED GENERAL INTERIOR FINISH, FABRICATED WHITE PAINTED METAL END CAPS. TWO DISTINCT OPTICAL COMPARTMENTS EACH WITH FORMED WHITE PAINTED METAL REFLECTOR/CIRCUIT BOARD MOUNT 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 = 46.3 AT 120.0 VOLTS

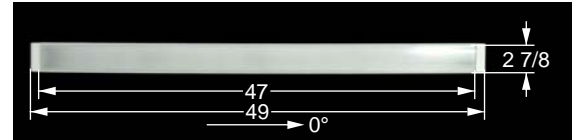
MOUNTING: SUSPENDED

LED DRIVER: OSRAM OT100W/4X600C/UNV/DIM  
(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 DRIVER.

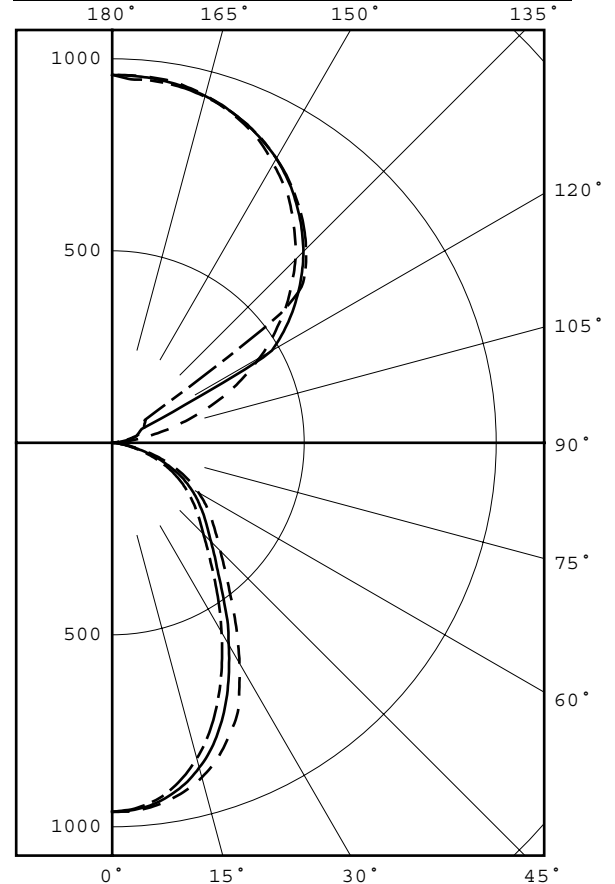
TEST PROCEDURE: IESNA LM-79-08

TEST DISTANCE = 35.0 FEET



**CANDELA DISTRIBUTION**

	0.0	22.5	45.0	67.5	90.0	FLUX
0	961	961	961	961	961	90
5	957	947	953	952	948	245
15	902	888	876	859	851	327
25	774	749	711	684	671	321
35	557	535	509	486	476	284
45	398	385	364	344	336	248
55	305	295	276	258	250	186
65	211	205	189	173	167	91
75	99	94	84	77	74	16
85	11	12	12	11	11	16
90	0	0	0	0	0	96
95	26	15	7	5	6	211
105	173	83	63	59	58	422
115	357	380	85	89	91	538
125	525	543	565	463	104	504
135	675	681	704	713	714	408
145	794	793	812	817	815	264
155	882	875	888	891	889	91
165	937	925	935	936	933	
175	958	950	956	953	949	
180	958	958	958	958	958	



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

**ZONAL LUMEN SUMMARY**

ZONE	LUMENS	%FIXT
0- 30	662	15.2
0- 40	983	22.6
0- 60	1515	34.8
0- 90	1808	41.5
90-120	324	7.4
90-130	745	17.1
90-150	1787	41.0
90-180	2550	58.5
0-180	4358	100.0

EFFICACY = 94.1 lm/W  
CIE TYPE - GENERAL DIFFUSE  
PLANE : 0-DEG 90-DEG  
SPACING CRITERIA : 1.07 0.96

Checked N WHITE  
Approved R BEATTIE  
Lighting Engineer



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INDEPENDENT TESTING LABORATORIES, INC.  
4066 CAMELOT CIRCLE, LONGMONT, CO 80504 USA

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PLANE : 0-DEG 90-DEG  
LUMINOUS LENGTH : 47.000 2.875

LUMINANCE DATA IN CANDELA/SQ M

ANGLE IN DEG	AVERAGE 0-DEG	AVERAGE 45-DEG	AVERAGE 90-DEG
45	6456.	5905.	5451.
55	6100.	5520.	5000.
65	5727.	5130.	4533.
75	4388.	3723.	3280.
85	1448.	1579.	1448.



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CANDELA DISTRIBUTION  
LATERAL ANGLE

	0.0	22.5	45.0	67.5	90.0
0.0	961	961	961	961	961
5.0	957	947	953	952	948
10.0	937	926	925	918	912
15.0	902	888	876	859	851
20.0	846	828	804	780	769
25.0	774	749	711	684	671
30.0	663	638	607	581	570
35.0	557	535	509	486	476
40.0	466	448	425	406	396
45.0	398	385	364	344	336
50.0	348	337	317	300	291
55.0	305	295	276	258	250
60.0	260	252	235	217	210
65.0	211	205	189	173	167
70.0	157	151	137	124	120
75.0	99	94	84	77	74
80.0	47	44	40	37	36
85.0	11	12	12	11	11
90.0	0	0	0	0	0
95.0	26	15	7	5	6
100.0	90	42	37	31	28
105.0	173	83	63	59	58
110.0	264	291	73	81	83
115.0	357	380	85	89	91
120.0	444	465	480	97	97
125.0	525	543	565	463	104
130.0	603	615	638	644	649
135.0	675	681	704	713	714
140.0	736	739	761	769	768
145.0	794	793	812	817	815
150.0	839	838	855	857	855
155.0	882	875	888	891	889
160.0	912	903	915	917	915
165.0	937	925	935	936	933
170.0	953	941	949	948	945
175.0	958	950	956	953	949
180.0	958	958	958	958	958



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5-DEGREE

ZONAL LUMEN SUMMARY

0- 5	23
5- 10	67
10- 15	107
15- 20	139
20- 25	159
25- 30	168
30- 35	165
35- 40	156
40- 45	146
45- 50	138
50- 55	129
55- 60	118
60- 65	103
65- 70	83
70- 75	58
75- 80	33
80- 85	14
85- 90	3
90- 95	2
95-100	14
100-105	32
105-110	64
110-115	88
115-120	123
120-125	174
125-130	247
130-135	269
135-140	269
140-145	261
145-150	244
150-155	219
155-160	189
160-165	152
165-170	111
170-175	68
175-180	23

10-DEGREE

ZONAL LUMEN SUMMARY

0- 10	90
0- 20	335
0- 30	662
0- 40	983
0- 50	1267
0- 60	1515
0- 70	1701
0- 80	1792
0- 90	1808
0-100	1825
0-110	1921
0-120	2132
0-130	2554
0-140	3091
0-150	3596
0-160	4004
0-170	4267
0-180	4358



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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	79	79	79	63	63	63	48	48	48	41	
1	96	92	88	85	88	84	81	78	69	67	65	56	54	53	43	42	42	36	
2	88	81	75	70	80	74	69	65	61	58	55	49	47	45	39	37	36	31	
3	80	71	64	59	73	66	60	55	54	50	46	44	41	38	35	33	31	26	
4	74	63	56	50	67	58	52	47	49	44	40	40	36	33	31	29	27	23	
5	68	57	49	43	62	52	45	40	44	39	35	36	32	29	28	26	24	20	
6	63	51	43	38	57	47	40	35	40	34	30	32	29	26	26	23	21	18	
7	58	46	39	33	53	43	36	31	36	31	27	30	26	23	24	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	18	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.



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NVLAP LAB CODE: 200925-0

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ADDRESS: 4830 TIMBER CREEK DRIVE  
HOUSTON, TX 77017

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