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Indoor Distribution Test Report

Relevant Standards
IES LM-79-2008, ANSI C82.77-2002

Prepared For
Mercury Lighting
20 Audrey Pl
Fairfield, NJ 07004-3416
United States

Catalog Number
MLS2-I-48-3700-(925 LMFT)-35K-BW-A401-U

Order Number

12422266

Test Number

12422266.03

Revised:

2018-08-23

Test Date

2018-07-19

Prepared By

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Approved By

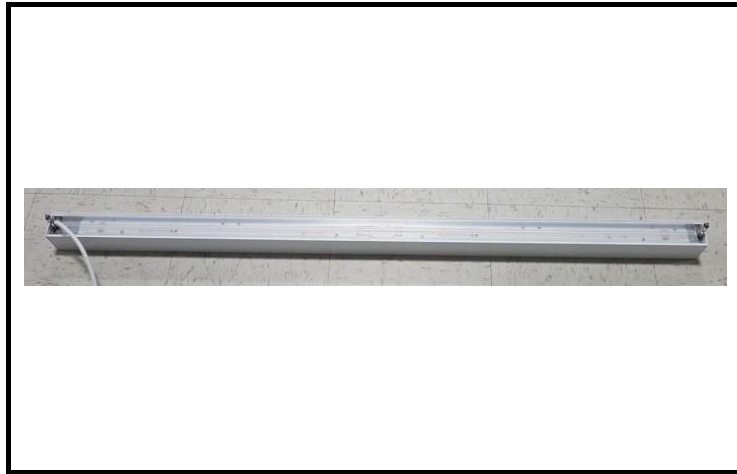
Alexa Lambert, Project Handler

The results contained in this report pertain only to the tested sample.
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Luminaire Description: White formed aluminum housing, clear plastic lens enclosure
Lamp: 96 white LEDs
Mounting: Pendant
Ballast/Driver: One Philips XI040C110V054BST1 driver

Luminaire



Luminaire Characteristics

Luminous Length: 48.00 in.
Luminous Width: 2.000 in.

Summary of Results

Total Luminaire Output: 3703 Lumens
Luminaire Efficacy: 125.3 lm/w
Maximum Candela: 1357 Candela

Test Conditions

Test Temperature: 25.0 °C
Voltage: 120.0 VAC
Current: 0.2475 A
Power: 29.55 W
Power Factor: 0.995
Frequency: 60 Hz
Current THD: 8.42 %

Laboratory results may not be representative of field performance
Ballast factors have not been applied



Distribution - Goniophotometer

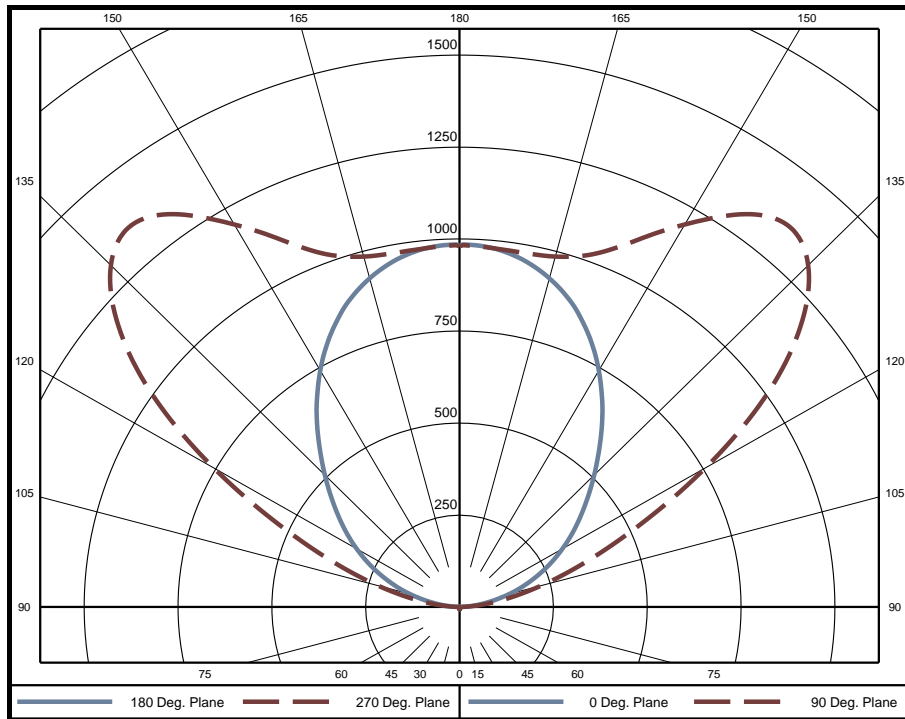
Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.0 °C	120.0 VAC	0.2475 A	29.55 W	0.995	60 Hz	8.42 %

Summary of Results

Total Lumen Output:	3703 Lumens
Luminaire Efficacy:	125.3 lm/w
Maximum Candela:	1357 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	0	0.0%	60-65	0	0.0%	120-125	338.8	9.1%
5-10	0	0.0%	65-70	0	0.0%	125-130	369.2	10.0%
10-15	0	0.0%	70-75	0	0.0%	130-135	374.6	10.1%
15-20	0	0.0%	75-80	0	0.0%	135-140	357.1	9.6%
20-25	0	0.0%	80-85	0	0.0%	140-145	322.3	8.7%
25-30	0	0.0%	85-90	0	0.0%	145-150	279.8	7.6%
30-35	0	0.0%	90-95	20.1	0.5%	150-155	236.9	6.4%
35-40	0	0.0%	95-100	60.4	1.6%	155-160	195.4	5.3%
40-45	0	0.0%	100-105	108.7	2.9%	160-165	154.9	4.2%
45-50	0	0.0%	105-110	164.8	4.5%	165-170	113.4	3.1%
50-55	0	0.0%	110-115	226.1	6.1%	170-175	69.4	1.9%
55-60	0	0.0%	115-120	287.6	7.8%	175-180	23.4	0.6%

Zone	Lumens	% of Luminaire
0-40	0	0.0%
0-60	0	0.0%
0-90	0	0.0%
90-180	3703	100.0%



Candela Tabulation
Horizontal Angle (Degrees)

	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
55	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
65	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
85	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
90	3	12	12	8	7	8	12	12	3	12	12	8	7	8	12	12
95	35	81	96	64	53	64	96	81	35	81	96	64	53	64	96	81
100	82	159	205	147	127	147	205	159	82	159	205	147	127	147	205	159
105	139	241	342	258	228	258	342	241	139	241	342	258	228	258	342	241
110	198	322	510	403	360	403	510	322	198	322	510	403	360	403	510	322
115	257	399	686	593	533	593	686	399	257	399	686	593	533	593	686	399
120	317	467	843	815	757	815	843	467	317	467	843	815	757	815	843	467
125	377	522	959	1023	993	1023	959	522	377	522	959	1023	993	1023	959	522
130	439	569	1018	1181	1185	1181	1018	569	439	569	1018	1181	1185	1181	1018	569
135	507	612	1015	1273	1313	1273	1015	612	507	612	1015	1273	1313	1273	1015	612
140	583	658	979	1273	1357	1273	979	658	583	658	979	1273	1357	1273	979	658
145	664	710	941	1200	1303	1200	941	710	664	710	941	1200	1303	1200	941	710
150	742	768	917	1111	1201	1111	917	768	742	768	917	1111	1201	1111	917	768
155	815	828	911	1032	1096	1032	911	828	815	828	911	1032	1096	1032	911	828
160	878	884	922	982	1019	982	922	884	878	884	922	982	1019	982	922	884
165	925	928	942	966	986	966	942	928	925	928	942	966	986	966	942	928
170	960	960	962	967	978	967	962	960	960	960	962	967	978	967	962	960
175	980	978	975	973	980	973	975	978	980	978	975	973	980	973	975	978
180	981	981	981	981	981	981	981	981	981	981	981	981	981	981	981	981

Vertical Angle (Degrees)



Coefficients of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance 20%

Ceiling Cavity Reflectance	80				70				50			30			10			0
Wall Reflectance	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
Room Cavity Ratio (RCR)	** Values are expressed as percent of total lumen output delivered to the task surface **																	
0	95	95	95	95	81	81	81	81	56	56	56	32	32	32	10	10	10	0
1	87	83	79	76	74	71	68	65	48	47	45	28	27	26	9	9	8	0
2	79	72	66	62	67	62	57	53	42	40	37	24	23	22	8	7	7	0
3	72	63	57	51	61	54	49	44	37	34	31	21	20	18	7	6	6	0
4	65	56	48	43	56	48	42	37	33	29	26	19	17	16	6	6	5	0
5	60	49	42	36	51	42	36	32	29	25	22	17	15	13	5	5	4	0
6	55	44	36	31	47	38	32	27	26	22	19	15	13	11	5	4	4	0
7	50	39	32	27	43	34	28	23	23	19	17	14	11	10	4	4	3	0
8	47	35	28	23	40	30	24	20	21	17	14	12	10	9	4	3	3	0
9	43	32	25	20	37	27	22	18	19	15	13	11	9	8	4	3	3	0
10	40	29	22	18	34	25	19	16	17	14	11	10	8	7	3	3	2	0