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Indoor Distribution Test Report

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

Prepared For
Mercury Lighting

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Catalog Number
LW104-4-5600-35K-A-U55-UNI-XXXX

Order Number
11163621
Test Number
1207689

Test Date

2016-02-22

Prepared By

Javier Caban, Technician

Approved By

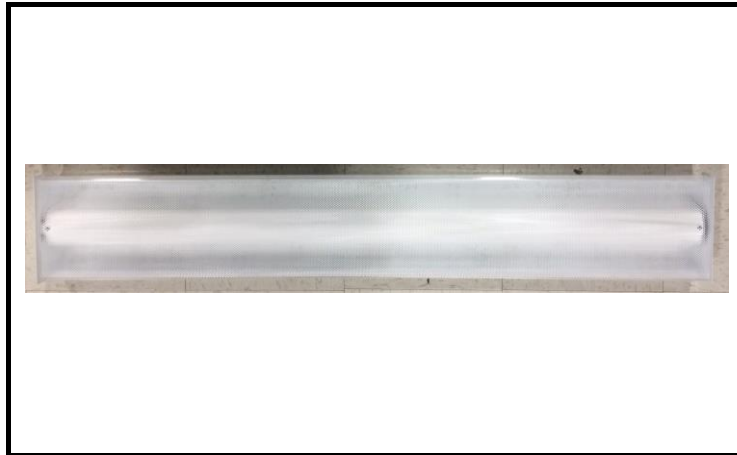
Kyle Spaziani, Project Handler

The results contained in this report pertain only to the tested sample.
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Luminaire Description: White enamel steel housing, prismatic plastic lens enclosure
Lamp: 128 White LEDs, four boards 32 LEDs each
Mounting: Surface
Ballast/Driver: One Everline LED Power Supply D10CC55UNVTZ-C

Luminaire



Luminaire Characteristics

Luminous Length: 48.00 in.
Luminous Width: 7.500 in.
Luminous Height: 1.50 in.

Summary of Results

Total Luminaire Output: 5483 Lumens
Luminaire Efficacy: 91.9 lm/w
Maximum Candela: 2646 Candela

Electrical Data

Test Temperature: 25.3 °C
Voltage: 120.0 VAC
Current: 0.4979 A
Power: 59.65 W
Power Factor: 0.999
Frequency: 60 Hz
Current THD: 4.67 %

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
25.3 °C	120.0 VAC	0.4979 A	59.65 W	0.999	60 Hz	4.67 %

Summary of Results

Spacing Criteria

0-180: 1.22
90-270: 1.22

Total Lumen Output:

5483 Lumens

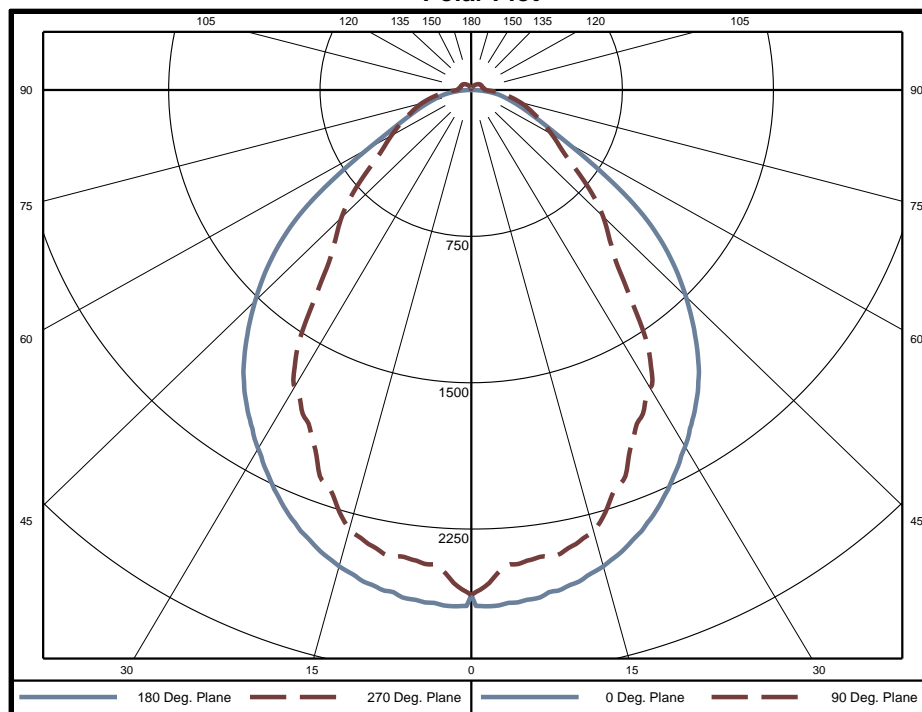
Luminaire Efficacy:

91.9 lm/w

Maximum Candela:

2646 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	60.3	1.1%	60-65	235.9	4.3%	120-125	17.2	0.3%
5-10	175.4	3.2%	65-70	182.9	3.3%	125-130	14.8	0.3%
10-15	284.6	5.2%	70-75	141.3	2.6%	130-135	12.1	0.2%
15-20	379.5	6.9%	75-80	104.7	1.9%	135-140	9.7	0.2%
20-25	453.6	8.3%	80-85	71.7	1.3%	140-145	7.5	0.1%
25-30	504.9	9.2%	85-90	40.7	0.7%	145-150	5.6	0.1%
30-35	534.7	9.8%	90-95	26.0	0.5%	150-155	4.0	0.1%
35-40	523.7	9.6%	95-100	24.6	0.4%	155-160	2.7	0.0%
40-45	487.2	8.9%	100-105	23.0	0.4%	160-165	1.8	0.0%
45-50	432.7	7.9%	105-110	22.3	0.4%	165-170	1.1	0.0%
50-55	361.2	6.6%	110-115	20.5	0.4%	170-175	0.5	0.0%
55-60	295.2	5.4%	115-120	19.1	0.3%	175-180	0.2	0.0%

Zone	Lumens	% of Luminaire
0-40	2917	53.2%
0-60	4493	81.9%
0-90	5270	96.1%
90-180	213	3.9%



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	2587	2587	2587	2587	2587	2587	2587	2587	2587	2587	2587	2587	2587	2587	2587	2587
5	2635	2529	2438	2430	2439	2430	2438	2529	2635	2529	2438	2430	2439	2430	2438	2529
10	2596	2416	2391	2404	2421	2404	2391	2416	2596	2416	2391	2404	2421	2404	2391	2416
15	2527	2357	2348	2331	2336	2331	2348	2357	2527	2357	2348	2331	2336	2331	2348	2357
20	2422	2270	2244	2158	2145	2158	2244	2270	2422	2270	2244	2158	2145	2158	2244	2270
25	2281	2170	2091	1956	1914	1956	2091	2170	2281	2170	2091	1956	1914	1956	2091	2170
30	2116	2023	1907	1781	1762	1781	1907	2023	2116	2023	1907	1781	1762	1781	1907	2023
35	1946	1876	1702	1555	1446	1555	1702	1876	1946	1876	1702	1555	1446	1555	1702	1876
40	1745	1718	1461	1158	1087	1158	1461	1718	1745	1718	1461	1158	1087	1158	1461	1718
45	1508	1508	1130	941	918	941	1130	1508	1508	1508	1130	941	918	941	1130	1508
50	1253	1167	864	766	726	766	864	1167	1253	1167	864	766	726	766	864	1167
55	920	869	691	608	553	608	691	869	920	869	691	608	553	608	691	869
60	565	655	560	507	460	507	560	655	565	655	560	507	460	507	560	655
65	375	450	427	415	381	415	427	450	375	450	427	415	381	415	427	450
70	270	310	314	331	313	331	314	310	270	310	314	331	313	331	314	310
75	193	213	229	261	254	261	229	213	193	213	229	261	254	261	229	213
80	137	137	160	190	189	190	160	137	137	137	160	190	189	190	160	137
85	65	83	104	126	127	126	104	83	65	83	104	126	127	126	104	83
90	0	36	62	70	70	70	62	36	0	36	62	70	70	70	62	36
95	0	32	56	65	65	65	56	32	0	32	56	65	65	65	56	32
100	0	31	56	58	59	58	56	31	0	31	56	58	59	58	56	31
105	1	31	56	57	55	57	56	31	1	31	56	57	55	57	56	31
110	3	30	51	56	56	56	51	30	3	30	51	56	56	56	51	30
115	4	29	49	52	54	52	49	29	4	29	49	52	54	52	49	29
120	4	26	47	52	53	52	47	26	4	26	47	52	53	52	47	26
125	5	23	43	50	51	50	43	23	5	23	43	50	51	50	43	23
130	5	19	37	46	47	46	37	19	5	19	37	46	47	46	37	19
135	6	16	32	40	42	40	32	16	6	16	32	40	42	40	32	16
140	6	14	27	35	37	35	27	14	6	14	27	35	37	35	27	14
145	6	12	22	30	32	30	22	12	6	12	22	30	32	30	22	12
150	6	11	17	25	28	25	17	11	6	11	17	25	28	25	17	11
155	7	9	14	19	22	19	14	9	7	9	14	19	22	19	14	9
160	7	8	12	14	17	14	12	8	7	8	12	14	17	14	12	8
165	7	8	10	11	13	11	10	8	7	8	10	11	13	11	10	8
170	7	7	8	8	9	8	8	7	7	7	8	8	9	8	8	7
175	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
180	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7

Average Luminance (cd/m²)

Horizontal Angle (Degrees)

	0	45	90
0	11140	11140	11140
45	8906	5913	4660
55	6609	4204	3230
65	3583	3221	2713
75	2881	2366	2418
85	2353	1797	1913



Utilization of Lumens - 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 Lumens delivered to the task surface **																	
0	6476	6476	6476	6476	6301	6301	6301	6301	5974	5974	5974	5674	5674	5674	5399	5399	5399	5270
1	5967	5729	5515	5322	5799	5585	5391	5216	5315	5158	5013	5067	4941	4823	4839	4739	4645	4519
2	5486	5076	4737	4452	5327	4957	4647	4383	4732	4474	4251	4524	4311	4124	4332	4159	4004	3880
3	5050	4525	4118	3794	4902	4424	4049	3747	4235	3917	3655	4060	3792	3567	3898	3674	3482	3361
4	4662	4060	3620	3283	4526	3976	3566	3250	3815	3463	3184	3667	3365	3120	3528	3271	3058	2940
5	4317	3667	3213	2878	4192	3595	3171	2853	3459	3088	2804	3332	3009	2756	3213	2934	2710	2595
6	4009	3332	2877	2551	3895	3270	2842	2532	3153	2776	2494	3044	2711	2457	2942	2649	2421	2311
7	3734	3043	2596	2282	3631	2990	2567	2267	2890	2512	2237	2795	2459	2208	2707	2407	2179	2073
8	3490	2795	2358	2058	3396	2749	2334	2045	2661	2288	2021	2579	2243	1998	2502	2200	1974	1873
9	3271	2579	2155	1868	3185	2539	2135	1858	2462	2096	1839	2390	2058	1819	2322	2021	1800	1703
10	3074	2390	1980	1707	2997	2355	1963	1699	2288	1929	1682	2224	1897	1666	2164	1866	1650	1558

Cone of Light Tabulation

Mounting Height	Footcandles at Nadir	Diameter (Feet)
4.00	162	4.46
6.00	71.9	6.70
8.00	40.4	8.93
10.0	25.9	11.2
12.0	18.0	13.4
14.0	13.2	15.6
16.0	10.1	17.9

Cone of Light Plot

