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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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Fairfield, NJ 07004-3416

Catalog Number
LR5-14G-6200-35K-U55-UNI-XXXX

Order Number
10742397
Test Number
1020028

Test Date

2015-04-13

Prepared By

Dane Hernandez-Adams, Technician

Approved By

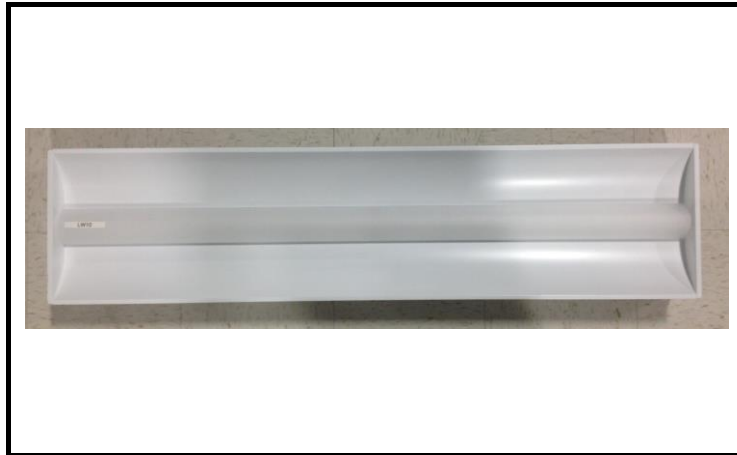
Kyle Spaziani, Project Handler

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Luminaire Description: White steel housing / reflector, frosted plastic lens enclosure
Lamp: 144 white LEDs
Mounting: Recessed
Ballast/Driver: One Universal Everline D15CC55UNVTZ-C (@1500mA)

Luminaire



Luminaire Characteristics

Luminous Length: 47.00 in.
Luminous Width: 11.00 in.

Summary of Results

Total Luminaire Output: 5951 Lumens
Luminaire Efficacy: 95 lm/w
Maximum Candela: 2084 Candela

Electrical Data

Test Temperature: 25.2 °C
Voltage: 120.0 VAC
Current: 0.5229 A
Power: 62.64 W
Power Factor: 0.998
Frequency: 60 Hz
Current THD: 4.45 %

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



Distribution - Goniophotometer

Distribution Test Conditions

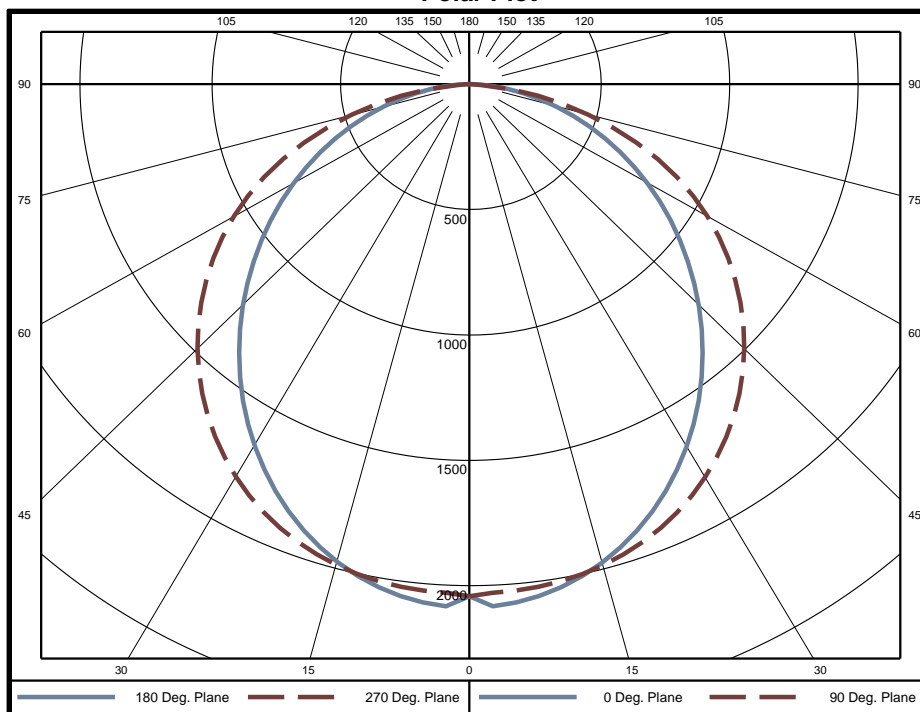
Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.2 °C	120.0 VAC	0.5229 A	62.64 W	0.998	60 Hz	4.45 %

Summary of Results

Spacing Criteria
 0-180: 1.21
 90-270: 1.31

Total Lumen Output: 5951 Lumens
Luminaire Efficacy: 95.0 lm/w
Maximum Candela: 2084 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	51.7	0.9%	60-65	412.8	6.9%	120-125	0.0	0.0%
5-10	144.5	2.4%	65-70	346.6	5.8%	125-130	0.0	0.0%
10-15	235.7	4.0%	70-75	267.9	4.5%	130-135	0.0	0.0%
15-20	318.9	5.4%	75-80	181.6	3.1%	135-140	0.0	0.0%
20-25	391.3	6.6%	80-85	91.9	1.5%	140-145	0.0	0.0%
25-30	450.3	7.6%	85-90	17.7	0.3%	145-150	0.0	0.0%
30-35	494.1	8.3%	90-95	0.0	0.0%	150-155	0.0	0.0%
35-40	521.5	8.8%	95-100	0.0	0.0%	155-160	0.0	0.0%
40-45	531.8	8.9%	100-105	0.0	0.0%	160-165	0.0	0.0%
45-50	525.3	8.8%	105-110	0.0	0.0%	165-170	0.0	0.0%
50-55	502.8	8.4%	110-115	0.0	0.0%	170-175	0.0	0.0%
55-60	465.1	7.8%	115-120	0.0	0.0%	175-180	0.0	0.0%

Zone	Lumens	% of Luminaire
0-40	2608.0	43.8%
0-60	4633.0	77.8%
0-90	5951.4	100.0%
90-180	0.0	0.0%



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	2042	2042	2042	2042	2042	2042	2042	2042	2042	2042	2042	2042	2042	2042	2042	2042
5	2074	2037	2021	2026	2027	2026	2021	2037	2074	2037	2021	2026	2027	2026	2021	2037
10	2037	2005	1997	2010	2013	2010	1997	2005	2037	2005	1997	2010	2013	2010	1997	2005
15	1976	1952	1956	1978	1985	1978	1956	1952	1976	1952	1956	1978	1985	1978	1956	1952
20	1893	1878	1898	1930	1942	1930	1898	1878	1893	1878	1898	1930	1942	1930	1898	1878
25	1791	1786	1821	1866	1884	1866	1821	1786	1791	1786	1821	1866	1884	1866	1821	1786
30	1673	1678	1730	1786	1808	1786	1730	1678	1673	1678	1730	1786	1808	1786	1730	1678
35	1542	1557	1623	1690	1717	1690	1623	1557	1542	1557	1623	1690	1717	1690	1623	1557
40	1399	1425	1503	1580	1610	1580	1503	1425	1399	1425	1503	1580	1610	1580	1503	1425
45	1252	1285	1373	1457	1490	1457	1373	1285	1252	1285	1373	1457	1490	1457	1373	1285
50	1099	1141	1233	1321	1356	1321	1233	1141	1099	1141	1233	1321	1356	1321	1233	1141
55	948	992	1087	1176	1211	1176	1087	992	948	992	1087	1176	1211	1176	1087	992
60	794	842	933	1021	1053	1021	933	842	794	842	933	1021	1053	1021	933	842
65	642	689	776	851	878	851	776	689	642	689	776	851	878	851	776	689
70	492	538	610	665	681	665	610	538	492	538	610	665	681	665	610	538
75	348	389	439	466	473	466	439	389	348	389	439	466	473	466	439	389
80	213	244	262	270	268	270	262	244	213	244	262	270	268	270	262	244
85	94	103	92	65	51	65	92	103	94	103	92	65	51	65	92	103
90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
105	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
115	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
125	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
130	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
135	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
140	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
145	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
150	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
155	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
160	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
165	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
170	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
175	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
180	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Average Luminance (cd/m²)
Horizontal Angle (Degrees)

	0	45	90
0	6121	6121	6121
45	5307	5820	6316
55	4955	5679	6331
65	4557	5508	6230
75	4027	5089	5475
85	3237	3168	1760



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	7088	7088	7088	7088	6923	6923	6923	6923	6616	6616	6616	6334	6334	6334	6076	6076	6076	5954
1	6465	6176	5917	5684	6302	6040	5804	5590	5786	5592	5413	5553	5394	5247	5338	5210	5091	4965
2	5867	5367	4953	4605	5709	5254	4873	4550	5041	4720	4443	4845	4577	4341	4664	4442	4244	4113
3	5340	4701	4207	3813	5190	4606	4148	3778	4427	4034	3710	4262	3926	3645	4108	3824	3581	3449
4	4883	4157	3626	3220	4744	4077	3581	3197	3927	3494	3152	3787	3412	3108	3656	3333	3066	2934
5	4486	3709	3166	2766	4359	3642	3132	2750	3514	3064	2719	3396	2999	2689	3285	2938	2659	2530
6	4140	3336	2796	2409	4025	3279	2769	2398	3170	2715	2376	3069	2664	2354	2974	2614	2333	2208
7	3837	3022	2494	2124	3732	2973	2472	2116	2881	2429	2100	2794	2387	2084	2712	2347	2068	1948
8	3570	2756	2244	1892	3476	2714	2226	1886	2635	2191	1874	2560	2157	1862	2490	2124	1850	1735
9	3335	2528	2034	1701	3250	2492	2020	1696	2424	1990	1687	2359	1962	1677	2298	1935	1668	1558
10	3126	2332	1857	1541	3049	2301	1845	1537	2241	1820	1530	2185	1797	1522	2132	1774	1515	1410

Cone of Light Tabulation

Mounting Height	Footcandles at Nadir	Diameter (Feet)
4.00	128	5.04
6.00	56.7	7.57
8.00	31.9	10.1
10.0	20.4	12.6
12.0	14.2	15.1
14.0	10.4	17.7
16.0	7.98	20.2

Cone of Light Plot

