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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
LW14-4-5000-35K-HTA-U55-UNI-SR-XXXX

Order Number
10972369
Test Number
1164872

Test Date

2015-09-29

Prepared By

Javier Caban, Technician

Approved By

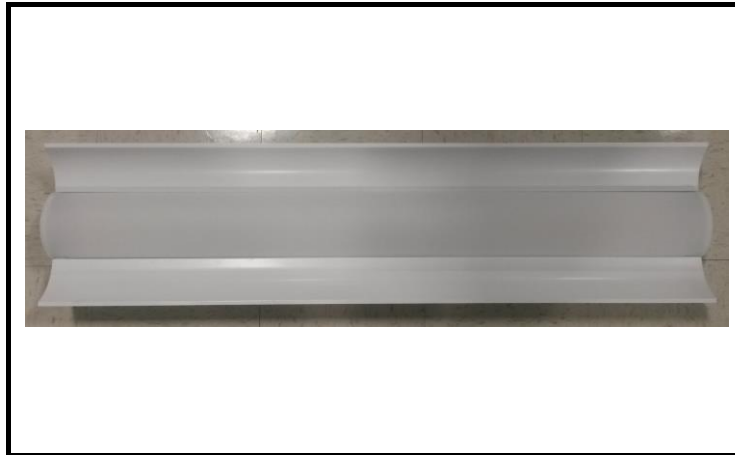
Kyle Spaziani, Project Handler

The results contained in this report pertain only to the tested sample.
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Luminaire Description: White steel housing, frosted plastic lens enclosure
Lamp: 112 white LEDs
Mounting: Pendant
Ballast/Driver: Two Universal Everline D10CC55UNVTZ-C

Luminaire



Luminaire Characteristics

Luminous Length: 45.00 in.
Luminous Width: 10.50 in.
Luminous Height: 1.75 in.

Summary of Results

Total Luminaire Output: 5210 Lumens
Luminaire Efficacy: 100.1 lm/w
Maximum Candela: 1751 Candela

Electrical Data

Test Temperature: 24.7 °C
Voltage: 120.0 VAC
Current: 0.4345 A
Power: 52.05 W
Power Factor: 0.998
Frequency: 60 Hz
Current THD: 4.74 %

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
24.7 °C	120.0 VAC	0.4345 A	52.05 W	0.998	60 Hz	4.74 %

Summary of Results

Spacing Criteria

0-180: 1.19

90-270: 1.19

Total Lumen Output:

5210 Lumens

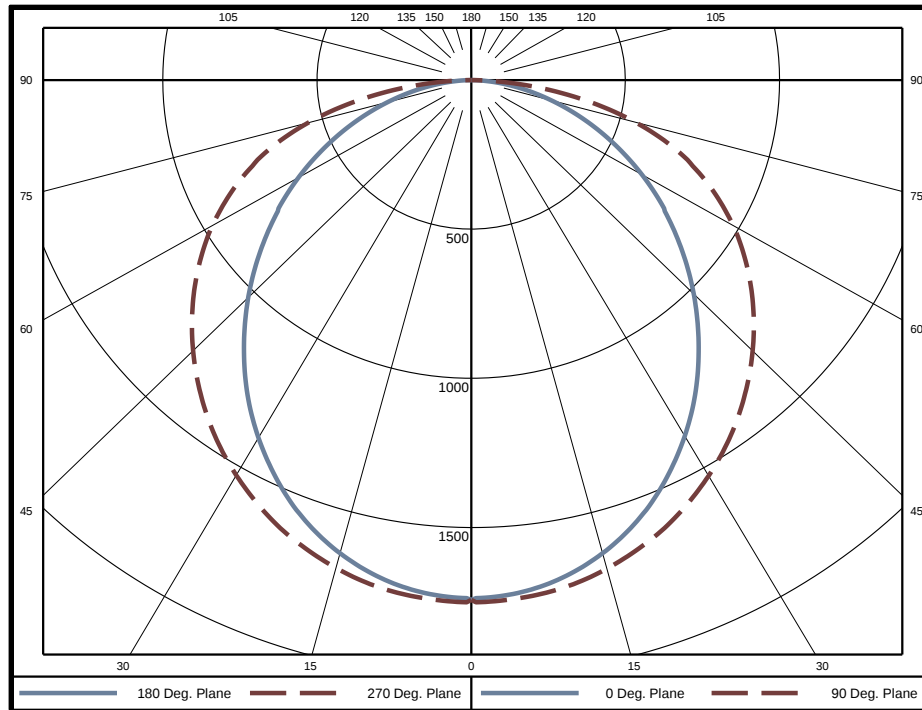
Luminaire Efficacy:

100.1 lm/w

Maximum Candela:

1751 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	41.6	0.8%	60-65	362.2	7.0%	120-125	0.0	0.0%
5-10	123.2	2.4%	65-70	316.7	6.1%	125-130	0	0.0%
10-15	200.3	3.8%	70-75	261.3	5.0%	130-135	0	0.0%
15-20	270.2	5.2%	75-80	195.3	3.7%	135-140	0	0.0%
20-25	330.3	6.3%	80-85	120.1	2.3%	140-145	0	0.0%
25-30	378.7	7.3%	85-90	41.8	0.8%	145-150	0	0.0%
30-35	414.3	8.0%	90-95	4.9	0.1%	150-155	0	0.0%
35-40	436.4	8.4%	95-100	2.6	0.0%	155-160	0	0.0%
40-45	445.0	8.5%	100-105	1.3	0.0%	160-165	0	0.0%
45-50	440.8	8.5%	105-110	0.6	0.0%	165-170	0	0.0%
50-55	424.4	8.1%	110-115	0.2	0.0%	170-175	0	0.0%
55-60	398.1	7.6%	115-120	0.1	0.0%	175-180	0	0.0%

Zone	Lumens	% of Luminaire
0-40	2195	42.1%
0-60	3903	74.9%
0-90	5201	99.8%
90-180	10	0.2%



Candela Tabulation
Horizontal Angle (Degrees)

Vertical 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	1743	1743	1743	1743	1743	1743	1743	1743	1743	1743	1743	1743	1743	1743	1743
	5	1726	1732	1734	1737	1744	1737	1734	1732	1726	1732	1734	1737	1744	1737	1734
	10	1695	1702	1709	1717	1727	1717	1709	1702	1695	1702	1709	1717	1727	1717	1709
	15	1643	1653	1667	1682	1695	1682	1667	1653	1643	1653	1667	1682	1695	1682	1667
	20	1573	1586	1610	1634	1651	1634	1610	1586	1573	1586	1610	1634	1651	1634	1610
	25	1485	1502	1538	1574	1596	1574	1538	1502	1485	1502	1538	1574	1596	1574	1538
	30	1383	1404	1454	1502	1531	1502	1454	1404	1383	1404	1454	1502	1531	1502	1454
	35	1270	1295	1359	1422	1456	1422	1359	1295	1270	1295	1359	1422	1456	1422	1359
	40	1148	1177	1256	1333	1372	1333	1256	1177	1148	1177	1256	1333	1372	1333	1256
	45	1023	1055	1147	1238	1281	1238	1147	1055	1023	1055	1147	1238	1281	1238	1147
	50	894	929	1033	1137	1185	1137	1033	929	894	929	1033	1137	1185	1137	1033
	55	767	804	916	1030	1083	1030	916	804	767	804	916	1030	1083	1030	916
	60	644	685	800	922	973	922	800	685	644	685	800	922	973	922	800
	65	516	563	692	805	851	805	692	563	516	563	692	805	851	805	692
	70	393	446	577	680	716	680	577	446	393	446	577	680	716	680	577
	75	277	338	456	531	548	531	456	338	277	338	456	531	548	531	456
	80	169	237	322	355	356	355	322	237	169	237	322	355	356	355	322
	85	73	136	171	168	158	168	171	136	73	136	171	168	158	168	171
	90	0	24	22	13	7	13	22	24	0	24	22	13	7	13	22
	95	0	9	11	5	0	5	11	9	0	9	11	5	0	5	11
	100	0	3	7	3	0	3	7	3	0	3	7	3	0	3	7
	105	0	1	4	2	0	2	4	1	0	1	4	2	0	2	4
	110	0	0	2	1	0	1	2	0	0	0	2	1	0	1	2
	115	0	0	1	0	0	0	1	0	0	0	1	0	0	0	1
	120	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
	130	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
	140	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
	150	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
	160	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
	170	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
	180	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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

Vertical Angle (Degrees)	0	45	90
	0	5718	5718
	45	4567	5096
	55	4154	5003
	65	3699	4863
	75	3061	4285
	85	1910	2046



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	6201	6201	6201	6201	6055	6055	6055	6055	5784	5784	5784	5536	5536	5536	5308	5308	5308	5201
1	5616	5347	5105	4888	5470	5226	5006	4806	5000	4818	4652	4793	4644	4506	4602	4482	4370	4257
2	5083	4627	4250	3932	4941	4526	4179	3884	4337	4044	3790	4162	3917	3701	4000	3797	3616	3498
3	4620	4044	3598	3242	4486	3959	3545	3212	3799	3444	3152	3652	3349	3095	3515	3259	3039	2920
4	4221	3571	3096	2732	4098	3500	3056	2712	3366	2979	2672	3241	2905	2633	3125	2835	2596	2478
5	3878	3185	2701	2344	3765	3125	2670	2330	3011	2610	2302	2905	2552	2275	2807	2497	2249	2134
6	3578	2864	2384	2040	3476	2813	2360	2030	2716	2312	2011	2626	2266	1991	2542	2222	1972	1861
7	3316	2594	2126	1799	3223	2551	2107	1791	2468	2068	1776	2391	2031	1762	2318	1995	1748	1641
8	3086	2366	1913	1602	3003	2329	1897	1597	2258	1865	1585	2191	1835	1574	2129	1805	1564	1462
9	2883	2171	1735	1440	2808	2139	1721	1436	2078	1695	1427	2020	1670	1419	1966	1645	1410	1313
10	2703	2003	1584	1305	2635	1975	1573	1301	1922	1551	1295	1872	1530	1288	1824	1509	1281	1188

Cone of Light Tabulation

Mounting Height	Footcandles at Nadir	Diameter (Feet)
4.00	109	4.97
6.00	48.4	7.45
8.00	27.2	9.93
10.0	17.4	12.4
12.0	12.1	14.9
14.0	8.89	17.4
16.0	6.81	19.9

Cone of Light Plot

