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Indoor Distribution Test Report

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

Prepared For
Mercury Lighting

Stephen Bambush
20 Audrey Pl
Fairfield, NJ 07004-3416

Catalog Number
LR2-14G-6200-35K-U55-UNI-XXXX

Order Number
10742397
Test Number
1020024

Test Date

2015-04-16

Prepared By

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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 / 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: 6072 Lumens
Luminaire Efficacy: 96.7 lm/w
Maximum Candela: 2107 Candela

Electrical Data

Test Temperature: 24.3 °C
Voltage: 120.0 VAC
Current: 0.5240 A
Power: 62.79 W
Power Factor: 0.999
Frequency: 60 Hz
Current THD: 3.95 %

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
24.3 °C	120.0 VAC	0.5240 A	62.79 W	0.999	60 Hz	3.95 %

Summary of Results

Spacing Criteria

0-180: 1.21
90-270: 1.31

Total Lumen Output:

6072 Lumens

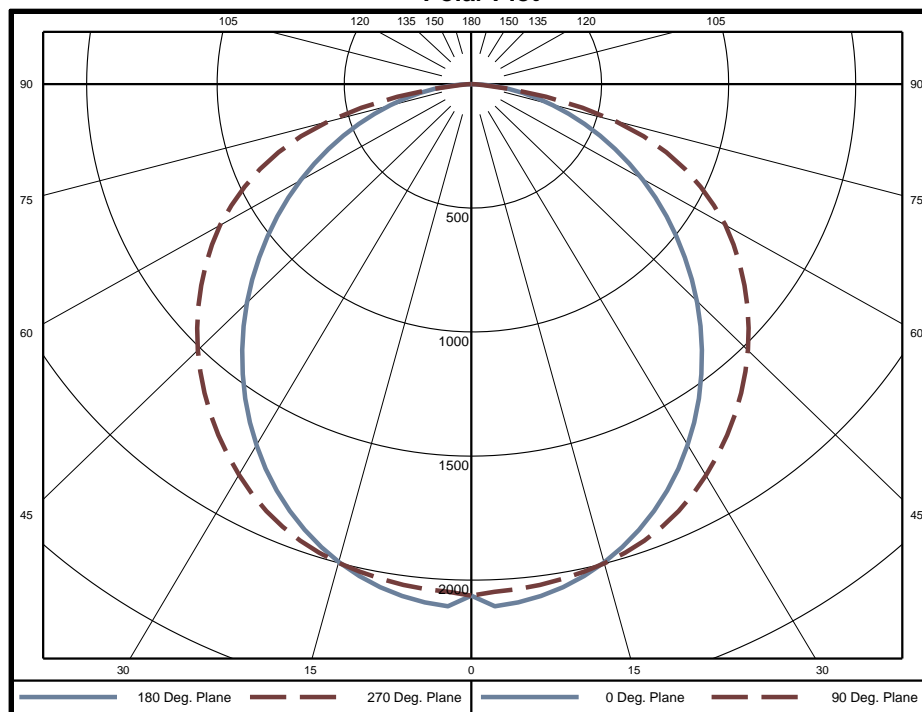
Luminaire Efficacy:

96.7 lm/w

Maximum Candela:

2107 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	52.2	0.9%	60-65	425.9	7.0%	120-125	0.0	0.0%
5-10	145.8	2.4%	65-70	366.0	6.0%	125-130	0.0	0.0%
10-15	237.5	3.9%	70-75	293.0	4.8%	130-135	0.0	0.0%
15-20	321.4	5.3%	75-80	202.8	3.3%	135-140	0.0	0.0%
20-25	394.4	6.5%	80-85	97.7	1.6%	140-145	0.0	0.0%
25-30	453.6	7.5%	85-90	18.2	0.3%	145-150	0.0	0.0%
30-35	496.9	8.2%	90-95	0.0	0.0%	150-155	0.0	0.0%
35-40	523.8	8.6%	95-100	0.0	0.0%	155-160	0.0	0.0%
40-45	534.0	8.8%	100-105	0.0	0.0%	160-165	0.0	0.0%
45-50	528.2	8.7%	105-110	0.0	0.0%	165-170	0.0	0.0%
50-55	507.5	8.4%	110-115	0.0	0.0%	170-175	0.0	0.0%
55-60	473.2	7.8%	115-120	0.0	0.0%	175-180	0.0	0.0%

Zone	Lumens	% of Luminaire
0-40	2625.6	43.2%
0-60	4668.5	76.9%
0-90	6072.1	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	2063	2063	2063	2063	2063	2063	2063	2063	2063	2063	2063	2063	2063	2063	2063	2063
5	2098	2058	2039	2044	2044	2044	2039	2058	2098	2058	2039	2044	2044	2044	2039	2058
10	2060	2024	2013	2024	2026	2024	2013	2024	2060	2024	2013	2024	2026	2024	2013	2024
15	1998	1968	1969	1992	2000	1992	1969	1968	1998	1968	1969	1992	2000	1992	1969	1968
20	1913	1892	1910	1947	1959	1947	1910	1892	1913	1892	1910	1947	1959	1947	1910	1892
25	1808	1797	1836	1883	1900	1883	1836	1797	1808	1797	1836	1883	1900	1883	1836	1797
30	1684	1685	1743	1798	1819	1798	1743	1685	1684	1685	1743	1798	1819	1798	1743	1685
35	1548	1562	1631	1700	1728	1700	1631	1562	1548	1562	1631	1700	1728	1700	1631	1562
40	1399	1428	1507	1591	1626	1591	1507	1428	1399	1428	1507	1591	1626	1591	1507	1428
45	1246	1284	1372	1474	1515	1474	1372	1284	1246	1284	1372	1474	1515	1474	1372	1284
50	1087	1135	1233	1348	1396	1348	1233	1135	1087	1135	1233	1348	1396	1348	1233	1135
55	930	980	1091	1218	1270	1218	1091	980	930	980	1091	1218	1270	1218	1091	980
60	773	826	947	1081	1136	1081	947	826	773	826	947	1081	1136	1081	947	826
65	618	674	802	930	980	930	802	674	618	674	802	930	980	930	802	674
70	470	528	650	764	804	764	650	528	470	528	650	764	804	764	650	528
75	330	387	495	565	579	565	495	387	330	387	495	565	579	565	495	387
80	204	251	313	309	294	309	313	251	204	251	313	309	294	309	313	251
85	92	115	92	57	46	57	92	115	92	115	92	57	46	57	92	115
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	6184	6184	6184
45	5282	5819	6424
55	4861	5703	6636
65	4387	5687	6950
75	3818	5728	6705
85	3164	3171	1587



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	7233	7233	7233	7233	7064	7064	7064	7064	6750	6750	6750	6463	6463	6463	6199	6199	6199	6075
1	6587	6288	6020	5778	6420	6149	5905	5684	5890	5688	5503	5651	5486	5334	5431	5299	5175	5046
2	5971	5454	5027	4668	5809	5338	4945	4612	5121	4789	4503	4920	4643	4399	4735	4505	4301	4166
3	5430	4772	4263	3857	5277	4675	4202	3821	4492	4086	3752	4322	3976	3686	4165	3872	3622	3486
4	4963	4217	3670	3253	4821	4135	3625	3230	3981	3536	3184	3837	3452	3139	3704	3371	3096	2961
5	4559	3761	3203	2792	4429	3692	3168	2776	3561	3099	2744	3440	3033	2714	3326	2970	2683	2552
6	4207	3382	2828	2431	4089	3323	2800	2420	3212	2745	2397	3109	2693	2375	3012	2642	2353	2226
7	3898	3063	2522	2143	3791	3013	2499	2134	2919	2455	2118	2830	2413	2102	2746	2372	2086	1963
8	3628	2794	2269	1909	3531	2751	2251	1902	2669	2214	1890	2593	2180	1878	2521	2146	1866	1748
9	3389	2563	2057	1715	3301	2526	2042	1711	2456	2012	1701	2389	1983	1692	2327	1955	1682	1570
10	3177	2364	1878	1554	3098	2332	1865	1550	2271	1840	1543	2213	1816	1535	2159	1792	1528	1420

Cone of Light Tabulation

Mounting Height	Footcandles at Nadir	Diameter (Feet)
4.00	129	5.03
6.00	57.3	7.54
8.00	32.2	10.1
10.0	20.6	12.6
12.0	14.3	15.1
14.0	10.5	17.6
16.0	8.06	20.1

Cone of Light Plot

