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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
LR10-24G-5000-35K-U55-UNI-XXXX
Order Number
10761618
Test Number
1105069

Test Date

2015-06-11

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: 112 white LEDs
Mounting: Recessed
Ballast/Driver: One Universal Everline D10CC55UNVTZ-C (@1050mA)

Luminaire



Luminaire Characteristics

Luminous Length: 47.00 in.
Luminous Width: 22.75 in.

Summary of Results

Total Luminaire Output: 4802 Lumens
Luminaire Efficacy: 93.1 lm/w
Maximum Candela: 1608 Candela

Electrical Data

Test Temperature: 24.7 °C
Voltage: 120.0 VAC
Current: 0.4302 A
Power: 51.57 W
Power Factor: 0.998
Frequency: 60 Hz
Current THD: 4.64 %

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



Distribution - Goniophotometer

Distribution Test Conditions

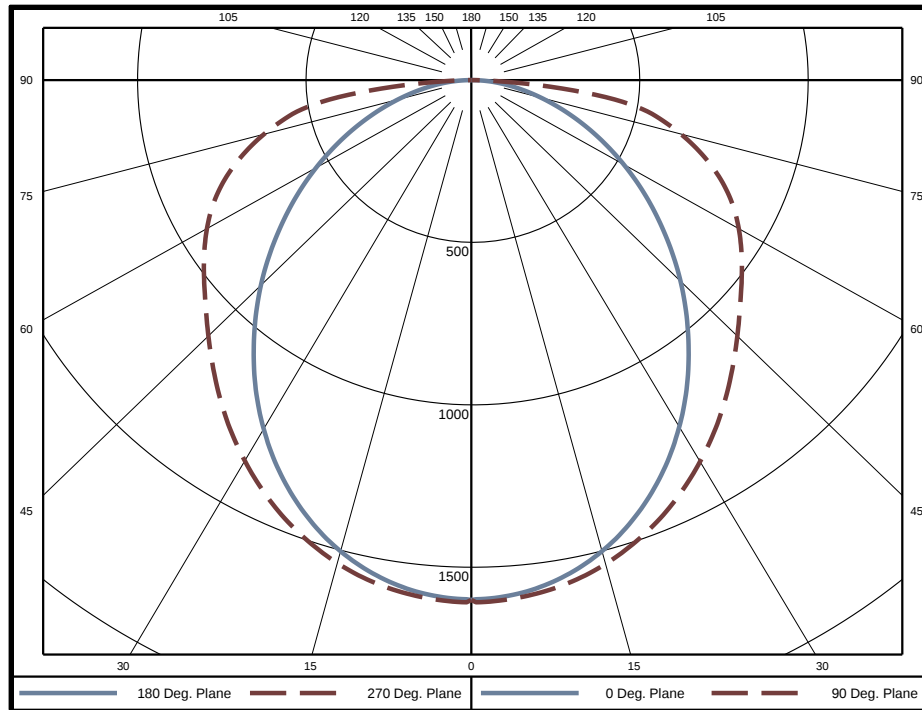
Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.7 °C	120.0 VAC	0.4302 A	51.57 W	0.998	60 Hz	4.64 %

Summary of Results

Spacing Criteria
 0-180: 1.16
 90-270: 1.16

Total Lumen Output: 4802 Lumens
Luminaire Efficacy: 93.1 lm/w
Maximum Candela: 1608 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	38.2	0.8%	60-65	332.9	6.9%	120-125	0	0.0%
5-10	112.9	2.4%	65-70	305.6	6.4%	125-130	0	0.0%
10-15	183.0	3.8%	70-75	270.0	5.6%	130-135	0	0.0%
15-20	245.5	5.1%	75-80	224.2	4.7%	135-140	0	0.0%
20-25	298.2	6.2%	80-85	156.8	3.3%	140-145	0	0.0%
25-30	339.1	7.1%	85-90	46.8	1.0%	145-150	0	0.0%
30-35	367.7	7.7%	90-95	0	0.0%	150-155	0	0.0%
35-40	383.8	8.0%	95-100	0	0.0%	155-160	0	0.0%
40-45	388.4	8.1%	100-105	0	0.0%	160-165	0	0.0%
45-50	383.4	8.0%	105-110	0	0.0%	165-170	0	0.0%
50-55	371.3	7.7%	110-115	0	0.0%	170-175	0	0.0%
55-60	354.2	7.4%	115-120	0	0.0%	175-180	0	0.0%

Zone	Lumens	% of Luminaire
0-40	1968	41.0%
0-60	3466	72.2%
0-90	4802	100.0%
90-180	0	0.0%



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	1601	1601	1601	1601	1601	1601	1601	1601	1601	1601	1601	1601	1601	1601	1601
	5	1588	1592	1590	1591	1600	1591	1590	1592	1588	1592	1590	1591	1600	1591	1590
	10	1555	1560	1563	1567	1578	1567	1563	1560	1555	1560	1563	1567	1578	1567	1563
	15	1503	1510	1519	1529	1541	1529	1519	1510	1503	1510	1519	1529	1541	1529	1519
	20	1430	1442	1458	1476	1490	1476	1458	1442	1430	1442	1458	1476	1490	1476	1458
	25	1342	1356	1384	1411	1428	1411	1384	1356	1342	1356	1384	1411	1428	1411	1384
	30	1239	1258	1297	1335	1355	1335	1297	1258	1239	1258	1297	1335	1355	1335	1297
	35	1126	1149	1202	1253	1277	1253	1202	1149	1126	1149	1202	1253	1277	1253	1202
	40	1006	1035	1102	1165	1194	1165	1102	1035	1006	1035	1102	1165	1194	1165	1102
	45	886	918	1000	1078	1114	1078	1000	918	886	918	1000	1078	1114	1078	1000
	50	764	802	901	998	1041	998	901	802	764	802	901	998	1041	998	901
	55	646	690	807	929	977	929	807	690	646	690	807	929	977	929	807
	60	530	584	728	866	914	866	728	584	530	584	728	866	914	866	728
	65	420	487	662	799	842	799	662	487	420	487	662	799	842	799	662
	70	317	402	596	714	751	714	596	402	317	402	596	714	751	714	596
	75	222	332	508	607	642	607	508	332	222	332	508	607	642	607	508
	80	139	260	392	483	514	483	392	260	139	260	392	483	514	483	392
	85	67	154	228	239	236	239	228	154	67	154	228	239	236	239	228
	90	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
	100	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
	110	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
	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	2320	2320
	45	1816	2283
	55	1631	2470
	65	1442	2888
	75	1245	3598
	85	1118	3925



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	5717	5717	5717	5717	5584	5584	5584	5584	5335	5335	5335	5108	5108	5108	4900	4900	4900	4802
1	5145	4882	4647	4434	5009	4771	4556	4361	4563	4385	4222	4372	4226	4091	4196	4078	3968	3862
2	4643	4207	3846	3542	4512	4114	3781	3498	3939	3658	3415	3778	3542	3335	3629	3433	3259	3148
3	4215	3669	3246	2909	4091	3591	3198	2882	3444	3107	2829	3308	3020	2778	3182	2938	2728	2617
4	3850	3238	2790	2448	3735	3173	2754	2430	3049	2684	2394	2934	2617	2360	2827	2553	2327	2217
5	3537	2888	2434	2099	3432	2832	2406	2087	2728	2351	2062	2630	2299	2039	2540	2249	2015	1909
6	3265	2598	2150	1828	3170	2551	2127	1820	2462	2084	1802	2379	2042	1785	2302	2002	1768	1665
7	3027	2354	1918	1613	2941	2315	1900	1606	2239	1865	1594	2168	1832	1581	2101	1799	1569	1470
8	2819	2149	1728	1438	2741	2115	1713	1433	2050	1684	1424	1989	1657	1414	1931	1630	1405	1310
9	2634	1973	1568	1294	2565	1944	1556	1291	1888	1532	1283	1835	1509	1276	1785	1487	1268	1178
10	2471	1822	1433	1174	2408	1796	1423	1171	1747	1403	1165	1702	1384	1159	1658	1365	1154	1068

Cone of Light Tabulation

Mounting Height	Footcandles at Nadir	Diameter (Feet)
4.00	100	4.83
6.00	44.5	7.25
8.00	25.0	9.66
10.0	16.0	12.1
12.0	11.1	14.5
14.0	8.17	16.9
16.0	6.25	19.3

Cone of Light Plot

