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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
LR26-24G-5000-35K-U55-UNI-XXXX
Order Number
10857788
Test Number
1124775

Test Date

2015-07-09

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

Luminaire



Luminaire Characteristics

Luminous Length: 47.00 in.
Luminous Width: 23.00 in.

Summary of Results

Total Luminaire Output: 4979 Lumens
Luminaire Efficacy: 94.5 lm/w
Maximum Candela: 1634 Candela

Electrical Data

Test Temperature: 24.5 °C
Voltage: 120.0 VAC
Current: 0.4395 A
Power: 52.68 W
Power Factor: 0.998
Frequency: 60 Hz
Current THD: 4.94 %

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
24.5 °C	120.0 VAC	0.4395 A	52.68 W	0.998	60 Hz	4.94 %

Summary of Results

Spacing Criteria

0-180: 1.20

90-270: 1.20

Total Lumen Output:

4979 Lumens

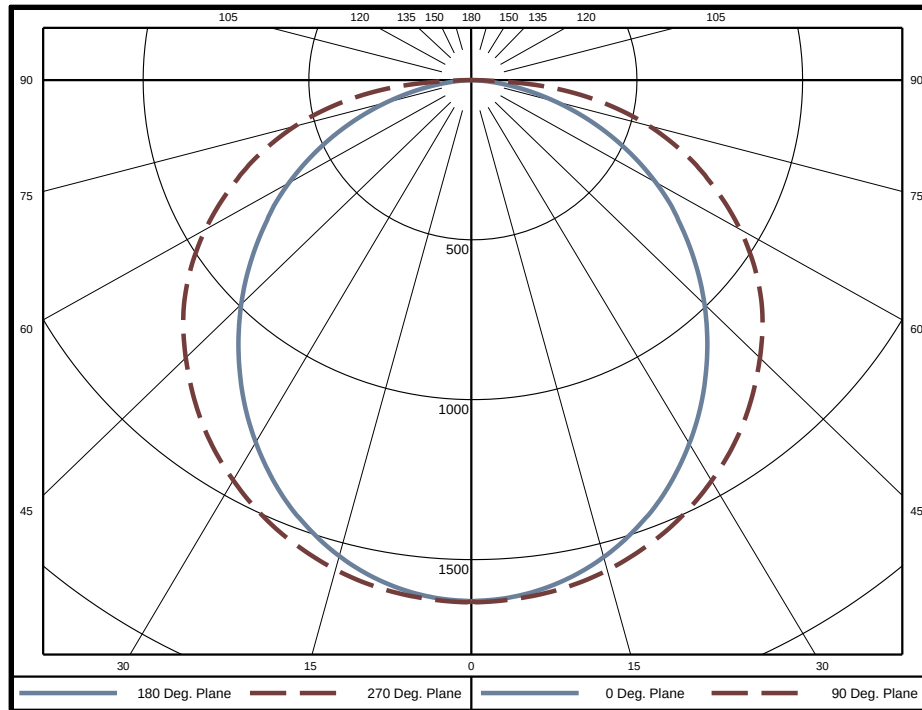
Luminaire Efficacy:

94.5 lm/w

Maximum Candela:

1634 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	38.9	0.8%	60-65	352.9	7.1%	120-125	0	0.0%
5-10	115.4	2.3%	65-70	305.3	6.1%	125-130	0	0.0%
10-15	187.9	3.8%	70-75	248.0	5.0%	130-135	0	0.0%
15-20	253.9	5.1%	75-80	183.8	3.7%	135-140	0	0.0%
20-25	311.4	6.3%	80-85	113.5	2.3%	140-145	0	0.0%
25-30	358.6	7.2%	85-90	35.3	0.7%	145-150	0	0.0%
30-35	394.4	7.9%	90-95	0	0.0%	150-155	0	0.0%
35-40	418.1	8.4%	95-100	0	0.0%	155-160	0	0.0%
40-45	429.2	8.6%	100-105	0	0.0%	160-165	0	0.0%
45-50	428.0	8.6%	105-110	0	0.0%	165-170	0	0.0%
50-55	414.8	8.3%	110-115	0	0.0%	170-175	0	0.0%
55-60	389.7	7.8%	115-120	0	0.0%	175-180	0	0.0%

Zone	Lumens	% of Luminaire
0-40	2079	41.7%
0-60	3740	75.1%
0-90	4979	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	1631	1631	1631	1631	1631	1631	1631	1631	1631	1631	1631	1631	1631	1631	1631
	5	1620	1624	1623	1623	1628	1623	1623	1624	1620	1624	1623	1623	1628	1623	1624
	10	1592	1597	1601	1606	1613	1606	1601	1597	1592	1597	1601	1606	1613	1606	1597
	15	1545	1554	1565	1576	1586	1576	1565	1554	1545	1554	1565	1576	1586	1576	1565
	20	1483	1495	1516	1535	1549	1535	1516	1495	1483	1495	1516	1535	1549	1535	1516
	25	1407	1422	1453	1484	1502	1484	1453	1422	1407	1422	1453	1484	1502	1484	1453
	30	1317	1336	1381	1423	1445	1423	1381	1336	1317	1336	1381	1423	1445	1423	1381
	35	1218	1241	1299	1353	1381	1353	1299	1241	1218	1241	1299	1353	1381	1353	1299
	40	1111	1139	1210	1274	1307	1274	1210	1139	1111	1139	1210	1274	1307	1274	1210
	45	999	1030	1112	1188	1226	1188	1112	1030	999	1030	1112	1188	1226	1188	1112
	50	883	917	1006	1097	1140	1097	1006	917	883	917	1006	1097	1140	1097	1006
	55	765	800	896	999	1042	999	896	800	765	800	896	999	1042	999	896
	60	648	684	783	887	931	887	783	684	648	684	783	887	931	887	783
	65	522	559	669	767	810	767	669	559	522	559	669	767	810	767	669
	70	395	434	541	643	687	643	541	434	395	434	541	643	687	643	541
	75	269	312	408	508	552	508	408	312	269	312	408	508	552	508	408
	80	153	194	277	361	398	361	277	194	153	194	277	361	398	361	277
	85	56	86	141	194	217	194	141	86	56	86	141	194	217	194	141
	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	2339	2339
	45	2026	2486
	55	1912	2604
	65	1771	2748
	75	1493	3058
	85	929	3567



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	5927	5927	5927	5927	5789	5789	5789	5789	5532	5532	5532	5297	5297	5297	5080	5080	5080	4979
1	5370	5113	4883	4675	5232	4999	4789	4598	4785	4611	4452	4588	4446	4315	4407	4292	4185	4078
2	4859	4423	4062	3758	4724	4327	3995	3713	4147	3867	3625	3982	3747	3541	3829	3634	3461	3349
3	4414	3862	3435	3095	4287	3782	3386	3067	3631	3291	3011	3491	3201	2957	3361	3116	2905	2792
4	4031	3409	2953	2605	3914	3341	2915	2586	3214	2843	2549	3096	2774	2513	2986	2708	2478	2366
5	3701	3037	2574	2231	3594	2981	2544	2218	2873	2488	2193	2773	2434	2168	2679	2382	2144	2034
6	3414	2729	2270	1940	3316	2681	2247	1931	2590	2202	1913	2504	2159	1895	2424	2117	1877	1771
7	3163	2471	2022	1708	3074	2430	2004	1701	2352	1968	1688	2278	1933	1675	2210	1899	1662	1560
8	2942	2252	1818	1520	2863	2217	1803	1515	2150	1773	1505	2087	1745	1495	2027	1717	1485	1388
9	2748	2065	1647	1365	2676	2035	1635	1361	1977	1610	1353	1923	1587	1346	1871	1564	1338	1245
10	2576	1905	1503	1236	2511	1878	1493	1233	1828	1472	1227	1781	1452	1221	1736	1433	1215	1126

Cone of Light Tabulation

Mounting Height	Footcandles at Nadir	Diameter (Feet)
4.00	102	5.04
6.00	45.3	7.55
8.00	25.5	10.1
10.0	16.3	12.6
12.0	11.3	15.1
14.0	8.32	17.6
16.0	6.37	20.1

Cone of Light Plot

