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Indoor Distribution Test Report

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

Prepared For
Mercury Lighting

John Andrews
20 Audrey Pl
Fairfield, NJ 07004-3416

Catalog Number
LR25-22G-3100-35K-U55-UNI-XXXX

Order Number
10740370
Test Number
1020067

Test Date

2015-04-14

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: 72 white LEDs
Mounting: Recessed
Ballast/Driver: One Universal Everline D10CC55UNVTZ-C (@754mA)

Luminaire



Luminaire Characteristics

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

Summary of Results

Total Luminaire Output: 2962 Lumens
Luminaire Efficacy: 89 lm/w
Maximum Candela: 988 Candela

Electrical Data

Test Temperature: 25.0 °C
Voltage: 120.0 VAC
Current: 0.2783 A
Power: 33.29 W
Power Factor: 0.997
Frequency: 60 Hz
Current THD: 5.78 %

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



Distribution - Goniophotometer

Distribution Test Conditions

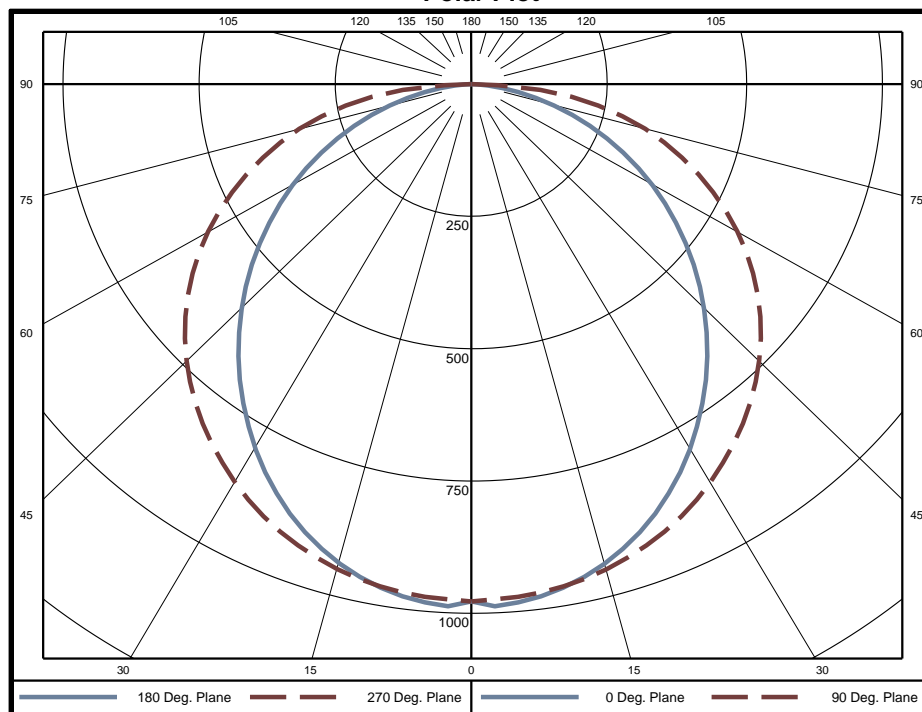
Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.0 °C	120.0 VAC	0.2783 A	33.29 W	0.997	60 Hz	5.78 %

Summary of Results

Spacing Criteria
 0-180: 1.21
 90-270: 1.32

Total Lumen Output: 2962 Lumens
Luminaire Efficacy: 89.0 lm/w
Maximum Candela: 988 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	24.8	0.8%	60-65	208.4	7.0%	120-125	0.0	0.0%
5-10	69.1	2.3%	65-70	178.8	6.0%	125-130	0.0	0.0%
10-15	112.6	3.8%	70-75	144.2	4.9%	130-135	0.0	0.0%
15-20	152.3	5.1%	75-80	105.4	3.6%	135-140	0.0	0.0%
20-25	187.0	6.3%	80-85	63.4	2.1%	140-145	0.0	0.0%
25-30	215.4	7.3%	85-90	18.6	0.6%	145-150	0.0	0.0%
30-35	236.8	8.0%	90-95	0.0	0.0%	150-155	0.0	0.0%
35-40	251.1	8.5%	95-100	0.0	0.0%	155-160	0.0	0.0%
40-45	257.7	8.7%	100-105	0.0	0.0%	160-165	0.0	0.0%
45-50	256.6	8.7%	105-110	0.0	0.0%	165-170	0.0	0.0%
50-55	247.8	8.4%	110-115	0.0	0.0%	170-175	0.0	0.0%
55-60	231.6	7.8%	115-120	0.0	0.0%	175-180	0.0	0.0%

Zone	Lumens	% of Luminaire
0-40	1249.1	42.2%
0-60	2242.8	75.7%
0-90	2961.7	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	977	977	977	977	977	977	977	977	977	977	977	977	977	977	977	977
5	983	972	971	973	972	973	971	972	983	972	971	973	972	973	971	972
10	966	956	958	963	963	963	958	956	966	956	958	963	963	963	958	956
15	939	931	937	946	949	946	937	931	939	931	937	946	949	946	937	931
20	901	896	908	923	927	923	908	896	901	896	908	923	927	923	908	896
25	853	852	871	893	901	893	871	852	853	852	871	893	901	893	871	852
30	798	801	828	857	867	857	828	801	798	801	828	857	867	857	828	801
35	736	744	779	815	829	815	779	744	736	744	779	815	829	815	779	744
40	671	682	725	769	786	769	725	682	671	682	725	769	786	769	725	682
45	602	616	665	717	738	717	665	616	602	616	665	717	738	717	665	616
50	531	547	601	660	684	660	601	547	531	547	601	660	684	660	601	547
55	456	475	534	598	623	598	534	475	456	475	534	598	623	598	534	475
60	383	402	464	530	556	530	464	402	383	402	464	530	556	530	464	402
65	306	327	390	456	483	456	390	327	306	327	390	456	483	456	390	327
70	231	252	313	378	406	378	313	252	231	252	313	378	406	378	313	252
75	157	178	233	296	326	296	233	178	157	178	233	296	326	296	233	178
80	88	107	154	208	234	208	154	107	88	107	154	208	234	208	154	107
85	31	44	73	108	126	108	73	44	31	44	73	108	126	108	73	44
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	2864	2864	2864
45	2493	2756	3057
55	2332	2728	3183
65	2124	2701	3352
75	1772	2637	3694
85	1050	2455	4225



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	3528	3528	3528	3528	3446	3446	3446	3446	3292	3292	3292	3152	3152	3152	3024	3024	3024	2963
1	3201	3050	2915	2793	3119	2982	2859	2747	2855	2753	2660	2738	2655	2578	2630	2563	2501	2437
2	2898	2641	2428	2249	2818	2584	2388	2222	2477	2312	2169	2379	2241	2119	2288	2174	2071	2005
3	2634	2308	2056	1855	2558	2260	2026	1837	2170	1969	1804	2087	1916	1772	2010	1865	1741	1674
4	2406	2038	1768	1562	2336	1998	1745	1550	1922	1702	1528	1852	1661	1507	1786	1622	1486	1419
5	2209	1816	1541	1339	2145	1782	1524	1331	1718	1490	1316	1659	1458	1301	1603	1427	1286	1221
6	2038	1632	1360	1164	1980	1603	1346	1159	1549	1319	1148	1498	1294	1137	1451	1269	1127	1064
7	1888	1478	1212	1025	1836	1453	1201	1021	1407	1179	1013	1363	1158	1005	1323	1138	998	937
8	1757	1347	1089	913	1709	1326	1080	909	1286	1063	903	1249	1046	898	1214	1029	892	834
9	1641	1235	987	820	1598	1217	980	817	1183	965	813	1150	951	808	1120	937	803	748
10	1538	1139	901	742	1499	1124	895	740	1094	882	737	1065	871	733	1039	859	729	677

Cone of Light Tabulation

Mounting Height	Footcandles at Nadir	Diameter (Feet)
4.00	61.1	5.05
6.00	27.1	7.57
8.00	15.3	10.1
10.0	9.77	12.6
12.0	6.79	15.1
14.0	4.99	17.7
16.0	3.82	20.2

Cone of Light Plot

