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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
LR15-22G-2600-35K-U30-UNI-XXXX

Order Number
10740370
Test Number
1020063

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: 56 white LEDs
Mounting: Recessed
Ballast/Driver: One Universal Everline D10CC30UNVTZ-C (@1050mA)

Luminaire



Luminaire Characteristics

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

Summary of Results

Total Luminaire Output:	2424 Lumens
Luminaire Efficacy:	89.4 lm/w
Maximum Candela:	791 Candela

Electrical Data

Test Temperature:	24.5 °C
Voltage:	120.0 VAC
Current:	0.2267 A
Power:	27.11 W
Power Factor:	0.997
Frequency:	60 Hz
Current THD:	5.98 %

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



Distribution - Goniophotometer

Distribution Test Conditions

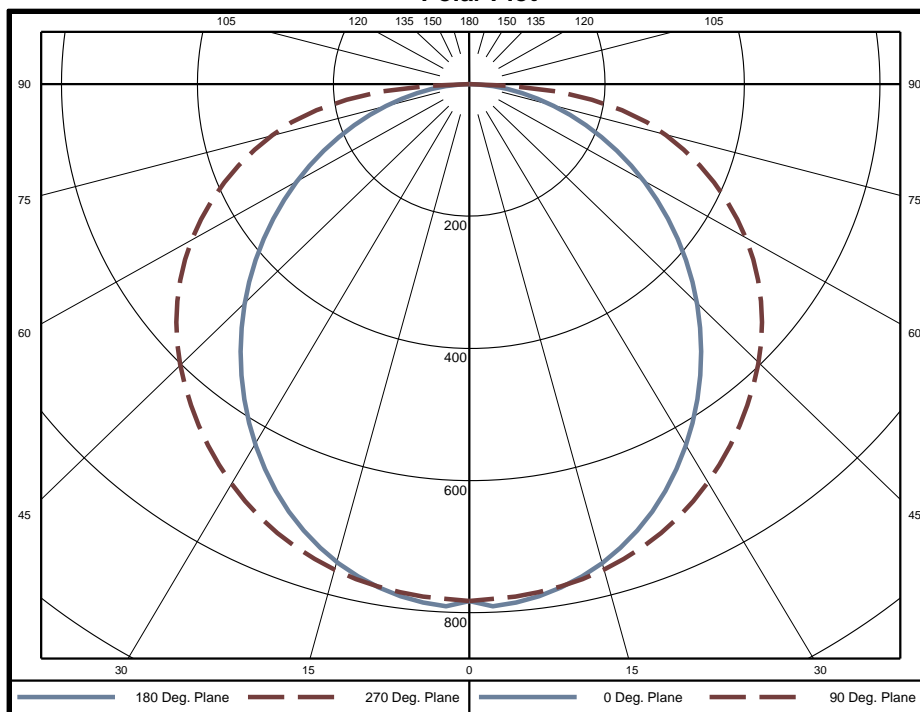
Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.5 °C	120.0 VAC	0.2267 A	27.11 W	0.997	60 Hz	5.98 %

Summary of Results

Spacing Criteria
 0-180: 1.20
 90-270: 1.32

Total Lumen Output: 2424 Lumens
Luminaire Efficacy: 89.4 lm/w
Maximum Candela: 791 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	19.8	0.8%	60-65	171.1	7.1%	120-125	0.0	0.0%
5-10	55.3	2.3%	65-70	150.4	6.2%	125-130	0.0	0.0%
10-15	90.2	3.7%	70-75	125.8	5.2%	130-135	0.0	0.0%
15-20	121.9	5.0%	75-80	97.5	4.0%	135-140	0.0	0.0%
20-25	149.6	6.2%	80-85	63.3	2.6%	140-145	0.0	0.0%
25-30	172.2	7.1%	85-90	21.0	0.9%	145-150	0.0	0.0%
30-35	189.1	7.8%	90-95	0.0	0.0%	150-155	0.0	0.0%
35-40	200.2	8.3%	95-100	0.0	0.0%	155-160	0.0	0.0%
40-45	205.5	8.5%	100-105	0.0	0.0%	160-165	0.0	0.0%
45-50	204.9	8.5%	105-110	0.0	0.0%	165-170	0.0	0.0%
50-55	198.8	8.2%	110-115	0.0	0.0%	170-175	0.0	0.0%
55-60	187.4	7.7%	115-120	0.0	0.0%	175-180	0.0	0.0%

Zone	Lumens	% of Luminaire
0-40	998.4	41.2%
0-60	1795.0	74.0%
0-90	2424.0	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	782	782	782	782	782	782	782	782	782	782	782	782	782	782	782	782
5	787	778	777	779	779	779	777	778	787	778	777	779	779	779	777	778
10	773	765	767	772	772	772	767	765	773	765	767	772	772	772	767	765
15	751	744	750	759	761	759	750	744	751	744	750	759	761	759	750	744
20	719	715	727	741	745	741	727	715	719	715	727	741	745	741	727	715
25	679	679	697	717	724	717	697	679	679	679	697	717	724	717	697	679
30	633	637	661	688	698	688	661	637	633	637	661	688	698	688	661	637
35	582	589	621	655	668	655	621	589	582	589	621	655	668	655	621	589
40	528	539	577	618	635	618	577	539	528	539	577	618	635	618	577	539
45	472	484	529	579	600	579	529	484	472	484	529	579	600	579	529	484
50	414	429	479	537	561	537	479	429	414	429	479	537	561	537	479	429
55	355	372	428	492	517	492	428	372	355	372	428	492	517	492	428	372
60	297	315	377	443	469	443	377	315	297	315	377	443	469	443	377	315
65	238	259	324	389	416	389	324	259	238	259	324	389	416	389	324	259
70	182	206	269	332	360	332	269	206	182	206	269	332	360	332	269	206
75	128	154	211	270	299	270	211	154	128	154	211	270	299	270	211	154
80	79	101	150	202	227	202	150	101	79	101	150	202	227	202	150	101
85	35	48	78	112	131	112	78	48	35	48	78	112	131	112	78	48
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	2292	2292	2292
45	1956	2192	2484
55	1814	2188	2643
65	1652	2247	2887
75	1449	2389	3384
85	1177	2635	4420



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	2888	2888	2888	2888	2821	2821	2821	2821	2696	2696	2696	2581	2581	2581	2476	2476	2476	2426
1	2610	2482	2367	2264	2542	2426	2321	2226	2322	2235	2155	2225	2154	2089	2137	2080	2026	1973
2	2359	2143	1965	1815	2293	2096	1932	1793	2009	1870	1750	1928	1811	1709	1853	1756	1670	1615
3	2142	1870	1660	1492	2079	1831	1636	1478	1757	1589	1451	1688	1545	1425	1625	1504	1400	1344
4	1956	1650	1426	1255	1898	1617	1407	1245	1554	1372	1227	1497	1338	1210	1443	1306	1193	1138
5	1795	1470	1242	1074	1743	1442	1228	1068	1389	1200	1056	1340	1174	1043	1294	1149	1032	978
6	1656	1321	1095	934	1608	1297	1084	929	1252	1062	921	1210	1041	912	1171	1021	903	852
7	1534	1196	976	822	1491	1175	967	819	1137	949	812	1101	932	806	1068	916	800	750
8	1427	1090	877	732	1388	1073	870	729	1040	856	724	1009	842	719	980	828	715	667
9	1333	999	795	657	1298	985	789	655	956	777	651	930	765	648	905	754	644	598
10	1250	922	725	595	1218	909	720	593	884	710	590	861	701	587	839	691	584	541

Cone of Light Tabulation

Mounting Height	Footcandles at Nadir	Diameter (Feet)
4.00	48.9	5.04
6.00	21.7	7.56
8.00	12.2	10.1
10.0	7.82	12.6
12.0	5.43	15.1
14.0	3.99	17.6
16.0	3.06	20.2

Cone of Light Plot

