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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
LR5-22G-4300-35K-U55-UNI-XXXX

Order Number
10740370
Test Number
1020069

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

Luminaire



Luminaire Characteristics

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

Summary of Results

Total Luminaire Output: 4108 Lumens
Luminaire Efficacy: 93.1 lm/w
Maximum Candela: 1354 Candela

Electrical Data

Test Temperature: 25.3 °C
Voltage: 120.0 VAC
Current: 0.3683 A
Power: 44.12 W
Power Factor: 0.998
Frequency: 60 Hz
Current THD: 5.06 %

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



Distribution - Goniophotometer

Distribution Test Conditions

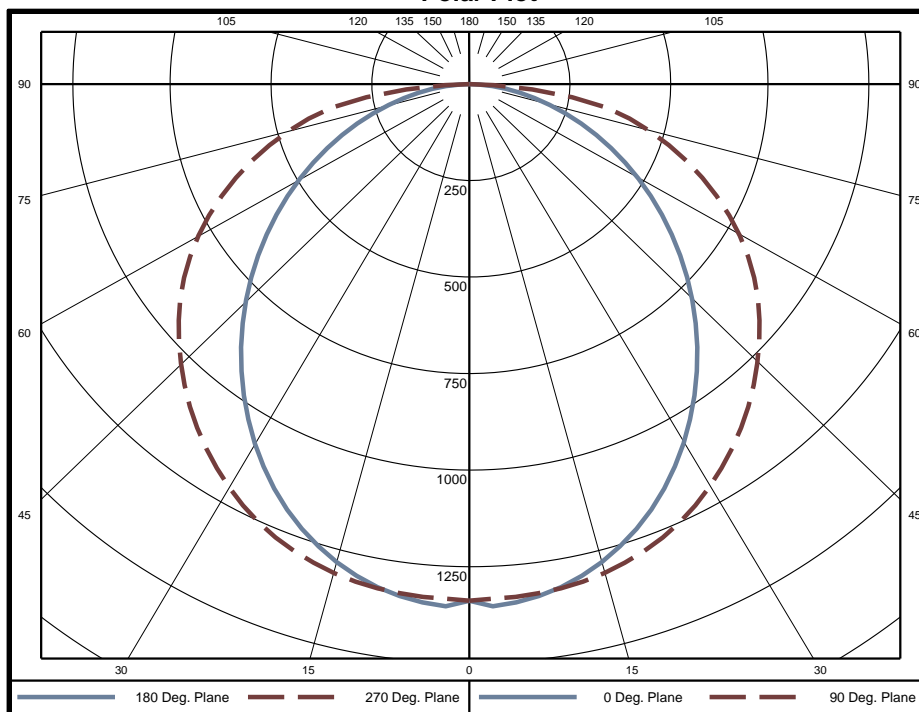
Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.3 °C	120.0 VAC	0.3683 A	44.12 W	0.998	60 Hz	5.06 %

Summary of Results

Spacing Criteria
 0-180: 1.19
 90-270: 1.33

Total Lumen Output: 4108 Lumens
Luminaire Efficacy: 93.1 lm/w
Maximum Candela: 1354 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	33.9	0.8%	60-65	289.0	7.0%	120-125	0.0	0.0%
5-10	94.8	2.3%	65-70	252.5	6.1%	125-130	0.0	0.0%
10-15	154.7	3.8%	70-75	209.0	5.1%	130-135	0.0	0.0%
15-20	209.4	5.1%	75-80	159.5	3.9%	135-140	0.0	0.0%
20-25	257.1	6.3%	80-85	99.3	2.4%	140-145	0.0	0.0%
25-30	295.9	7.2%	85-90	28.0	0.7%	145-150	0.0	0.0%
30-35	324.7	7.9%	90-95	0.0	0.0%	150-155	0.0	0.0%
35-40	343.3	8.4%	95-100	0.0	0.0%	155-160	0.0	0.0%
40-45	351.5	8.6%	100-105	0.0	0.0%	160-165	0.0	0.0%
45-50	349.3	8.5%	105-110	0.0	0.0%	165-170	0.0	0.0%
50-55	338.0	8.2%	110-115	0.0	0.0%	170-175	0.0	0.0%
55-60	317.8	7.7%	115-120	0.0	0.0%	175-180	0.0	0.0%

Zone	Lumens	% of Luminaire
0-40	1713.8	41.7%
0-60	3070.3	74.7%
0-90	4107.6	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	1338	1338	1338	1338	1338	1338	1338	1338	1338	1338	1338	1338	1338	1338	1338	1338
5	1348	1331	1330	1334	1334	1334	1330	1331	1348	1331	1330	1334	1334	1334	1330	1331
10	1323	1309	1314	1325	1326	1325	1314	1309	1323	1309	1314	1325	1326	1325	1314	1309
15	1282	1273	1288	1307	1311	1307	1288	1273	1282	1273	1288	1307	1311	1307	1288	1273
20	1226	1223	1250	1278	1287	1278	1250	1223	1226	1223	1250	1278	1287	1278	1250	1223
25	1156	1161	1200	1239	1252	1239	1200	1161	1156	1161	1200	1239	1252	1239	1200	1161
30	1075	1087	1139	1189	1206	1189	1139	1087	1075	1087	1139	1189	1206	1189	1139	1087
35	985	1006	1070	1129	1152	1129	1070	1006	985	1006	1070	1129	1152	1129	1070	1006
40	890	918	993	1064	1091	1064	993	918	890	918	993	1064	1091	1064	993	918
45	791	826	910	992	1024	992	910	826	791	826	910	992	1024	992	910	826
50	690	729	822	915	952	915	822	729	690	729	822	915	952	915	822	729
55	590	633	735	836	874	836	735	633	590	633	735	836	874	836	735	633
60	490	537	647	747	785	747	647	537	490	537	647	747	785	747	647	537
65	392	444	558	649	686	649	558	444	392	444	558	649	686	649	558	444
70	299	355	461	545	581	545	461	355	299	355	461	545	581	545	461	355
75	209	269	358	433	469	433	358	269	209	269	358	433	469	433	358	269
80	129	178	249	317	350	317	249	178	129	178	249	317	350	317	249	178
85	58	85	122	146	159	146	122	85	58	85	122	146	159	146	122	85
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	3921	3921	3921
45	3277	3769	4242
55	3012	3754	4466
65	2720	3872	4757
75	2367	4048	5315
85	1955	4096	5351



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	4893	4893	4893	4893	4779	4779	4779	4779	4567	4567	4567	4372	4372	4372	4194	4194	4194	4110
1	4430	4217	4026	3853	4316	4122	3948	3790	3946	3801	3669	3783	3665	3556	3633	3538	3449	3360
2	4007	3646	3347	3095	3896	3567	3291	3057	3418	3186	2985	3281	3087	2916	3155	2994	2850	2757
3	3640	3183	2830	2548	3535	3117	2789	2525	2992	2710	2479	2876	2636	2434	2769	2566	2391	2298
4	3324	2809	2432	2144	3227	2754	2401	2129	2648	2341	2098	2551	2284	2068	2460	2230	2040	1947
5	3052	2504	2120	1837	2963	2457	2096	1827	2368	2049	1806	2285	2005	1785	2208	1962	1765	1674
6	2816	2250	1870	1598	2735	2210	1851	1590	2135	1814	1575	2064	1779	1561	1998	1744	1546	1459
7	2609	2037	1667	1407	2536	2003	1651	1402	1939	1622	1391	1878	1593	1380	1822	1565	1369	1285
8	2427	1857	1499	1253	2361	1828	1486	1248	1773	1462	1240	1721	1438	1232	1672	1415	1224	1143
9	2267	1704	1358	1125	2208	1678	1348	1122	1631	1328	1115	1586	1308	1109	1543	1289	1103	1026
10	2125	1571	1239	1019	2072	1549	1231	1016	1508	1214	1011	1469	1198	1006	1432	1182	1001	928

Cone of Light Tabulation

Mounting Height	Footcandles at Nadir	Diameter (Feet)
4.00	83.6	5.05
6.00	37.2	7.58
8.00	20.9	10.1
10.0	13.4	12.6
12.0	9.29	15.2
14.0	6.83	17.7
16.0	5.23	20.2

Cone of Light Plot

