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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  
**LR2-22G-4300-35K-U55-UNI-XXXX**

Order Number  
10740370  
Test Number  
1020068

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: 4054 Lumens  
Luminaire Efficacy: 92.2 lm/w  
Maximum Candela: 1371 Candela

### Electrical Data

Test Temperature: 24.6 °C  
Voltage: 120.0 VAC  
Current: 0.3673 A  
Power: 43.99 W  
Power Factor: 0.998  
Frequency: 60 Hz  
Current THD: 5.32 %

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
24.6 °C	120.0 VAC	0.3673 A	43.99 W	0.998	60 Hz	5.32 %

### Summary of Results

#### Spacing Criteria

0-180: 1.19  
90-270: 1.29

#### Total Lumen Output:

4054 Lumens

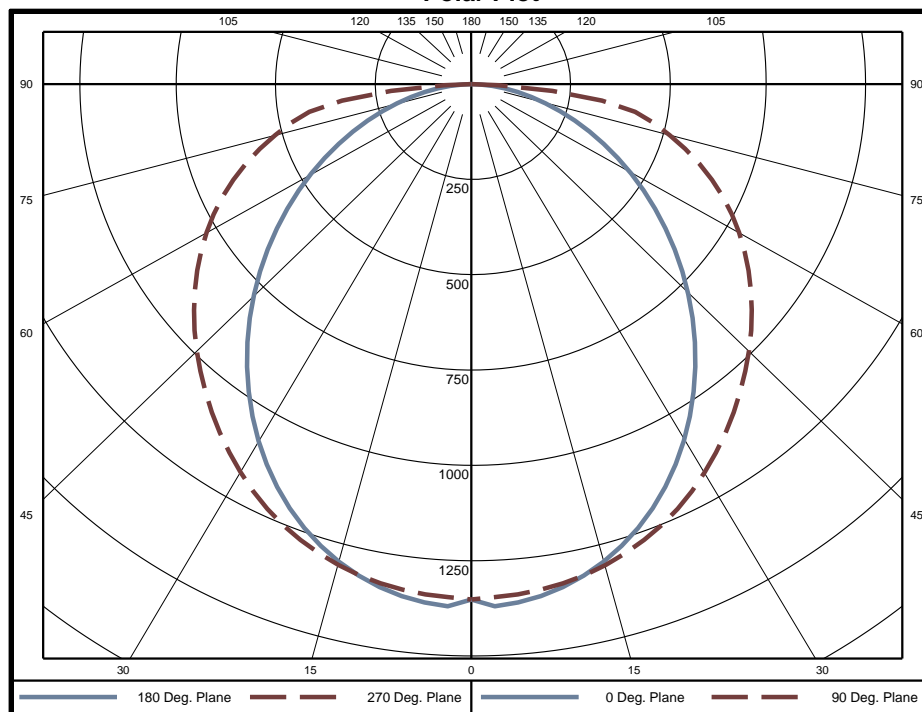
#### Luminaire Efficacy:

92.2 lm/w

#### Maximum Candela:

1371 Candela

### Polar Plot



### Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	34.3	0.8%	60-65	279.5	6.9%	120-125	0.0	0.0%
5-10	95.5	2.4%	65-70	247.9	6.1%	125-130	0.0	0.0%
10-15	155.3	3.8%	70-75	210.3	5.2%	130-135	0.0	0.0%
15-20	209.3	5.2%	75-80	167.6	4.1%	135-140	0.0	0.0%
20-25	255.7	6.3%	80-85	112.6	2.8%	140-145	0.0	0.0%
25-30	292.4	7.2%	85-90	32.8	0.8%	145-150	0.0	0.0%
30-35	318.8	7.9%	90-95	0.0	0.0%	150-155	0.0	0.0%
35-40	334.8	8.3%	95-100	0.0	0.0%	155-160	0.0	0.0%
40-45	340.5	8.4%	100-105	0.0	0.0%	160-165	0.0	0.0%
45-50	336.8	8.3%	105-110	0.0	0.0%	165-170	0.0	0.0%
50-55	324.7	8.0%	110-115	0.0	0.0%	170-175	0.0	0.0%
55-60	305.3	7.5%	115-120	0.0	0.0%	175-180	0.0	0.0%

Zone	Lumens	% of Luminaire
0-40	1696.1	41.8%
0-60	3003.4	74.1%
0-90	4054.1	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	1352	1352	1352	1352	1352	1352	1352	1352	1352	1352	1352	1352	1352	1352	1352	1352
5	1365	1343	1341	1345	1344	1345	1341	1343	1365	1343	1341	1345	1344	1345	1341	1343
10	1340	1320	1322	1330	1330	1330	1322	1320	1340	1320	1322	1330	1330	1330	1322	1320
15	1297	1281	1290	1303	1306	1303	1290	1281	1297	1281	1290	1303	1306	1303	1290	1281
20	1239	1227	1245	1266	1272	1266	1245	1227	1239	1227	1245	1266	1272	1266	1245	1227
25	1166	1160	1188	1219	1229	1219	1188	1160	1166	1160	1188	1219	1229	1219	1188	1160
30	1080	1080	1119	1161	1175	1161	1119	1080	1080	1080	1119	1161	1175	1161	1119	1080
35	985	992	1042	1096	1116	1096	1042	992	985	992	1042	1096	1116	1096	1042	992
40	884	897	961	1027	1053	1027	961	897	884	897	961	1027	1053	1027	961	897
45	780	799	873	955	989	955	873	799	780	799	873	955	989	955	873	799
50	674	698	784	883	922	883	784	698	674	698	784	883	922	883	784	698
55	570	598	699	809	852	809	699	598	570	598	699	809	852	809	699	598
60	469	501	616	732	779	732	616	501	469	501	616	732	779	732	616	501
65	371	410	534	652	699	652	534	410	371	410	534	652	699	652	534	410
70	280	326	452	564	611	564	452	326	280	326	452	564	611	564	452	326
75	195	246	362	468	517	468	362	246	195	246	362	468	517	468	362	246
80	120	168	267	369	419	369	267	168	120	168	267	369	419	369	267	168
85	54	84	146	190	205	190	146	84	54	84	146	190	205	190	146	84
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/m<sup>2</sup>)**  
Horizontal Angle (Degrees)

	0	45	90
0	3961	3961	3961
45	3230	3617	4098
55	2912	3570	4354
65	2574	3700	4847
75	2208	4099	5852
85	1803	4914	6900



### 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	4829	4829	4829	4829	4716	4716	4716	4716	4507	4507	4507	4315	4315	4315	4139	4139	4139	4056
1	4364	4150	3958	3785	4250	4056	3881	3723	3881	3737	3604	3721	3602	3492	3573	3477	3388	3299
2	3946	3586	3288	3038	3836	3508	3234	3001	3361	3130	2930	3226	3032	2862	3101	2940	2797	2705
3	3585	3132	2782	2502	3481	3067	2741	2479	2943	2664	2434	2829	2591	2390	2723	2521	2348	2255
4	3276	2766	2393	2108	3180	2711	2362	2093	2607	2303	2062	2511	2247	2033	2421	2193	2005	1913
5	3009	2467	2088	1808	2922	2421	2064	1798	2333	2018	1777	2251	1974	1757	2175	1932	1737	1648
6	2777	2219	1844	1575	2698	2179	1825	1567	2105	1788	1553	2035	1753	1538	1970	1719	1524	1437
7	2575	2010	1645	1389	2503	1977	1630	1383	1913	1600	1372	1854	1572	1362	1798	1544	1351	1268
8	2397	1834	1480	1238	2332	1805	1468	1233	1751	1444	1225	1699	1421	1217	1651	1398	1209	1130
9	2239	1683	1343	1113	2181	1659	1333	1110	1611	1313	1103	1567	1293	1097	1525	1275	1091	1015
10	2100	1553	1226	1009	2047	1532	1218	1006	1491	1201	1001	1452	1185	996	1416	1169	991	919

### Cone of Light Tabulation

Mounting Height	Footcandles at Nadir	Diameter (Feet)
4.00	84.5	4.94
6.00	37.6	7.41
8.00	21.1	9.88
10.0	13.5	12.3
12.0	9.39	14.8
14.0	6.90	17.3
16.0	5.28	19.8

### Cone of Light Plot

