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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-2600-35K-U30-UNI-XXXX**

Order Number  
10740370  
Test Number  
1020058

Test Date

2015-04-15

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:	2483 Lumens
Luminaire Efficacy:	92.7 lm/w
Maximum Candela:	841 Candela

### Electrical Data

Test Temperature:	25.0 °C
Voltage:	120.0 VAC
Current:	0.2240 A
Power:	26.79 W
Power Factor:	0.997
Frequency:	60 Hz
Current THD:	5.76 %

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	0.2240 A	26.79 W	0.997	60 Hz	5.76 %

### Summary of Results

#### Spacing Criteria

0-180: 1.19  
90-270: 1.29

#### Total Lumen Output:

2483 Lumens

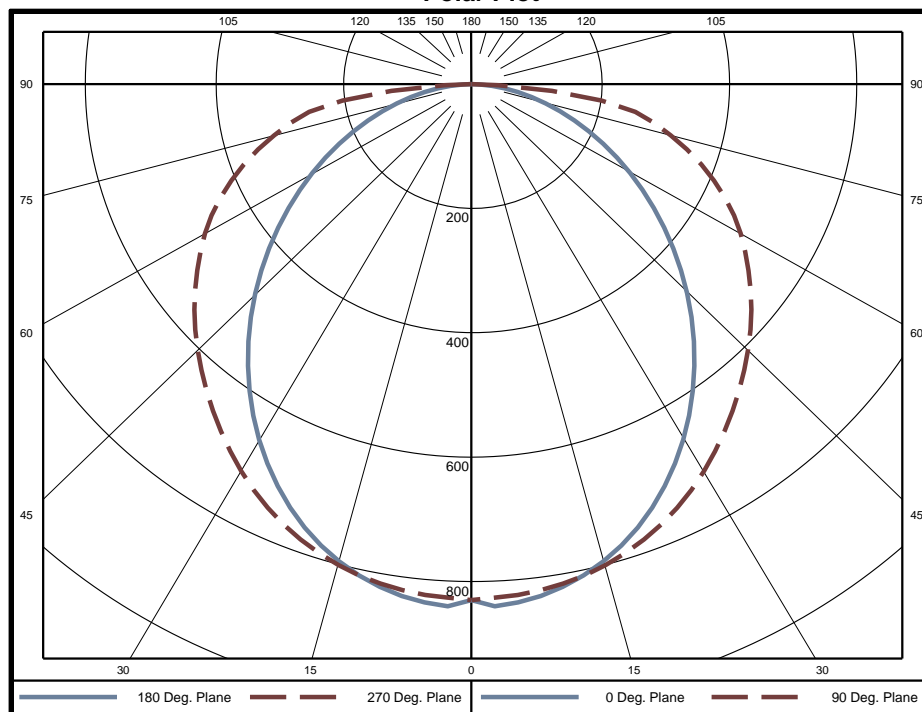
#### Luminaire Efficacy:

92.7 lm/w

#### Maximum Candela:

841 Candela

### Polar Plot



### Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	21.0	0.8%	60-65	171.7	6.9%	120-125	0.0	0.0%
5-10	58.6	2.4%	65-70	152.5	6.1%	125-130	0.0	0.0%
10-15	95.3	3.8%	70-75	129.6	5.2%	130-135	0.0	0.0%
15-20	128.3	5.2%	75-80	103.2	4.2%	135-140	0.0	0.0%
20-25	156.6	6.3%	80-85	68.8	2.8%	140-145	0.0	0.0%
25-30	178.9	7.2%	85-90	19.9	0.8%	145-150	0.0	0.0%
30-35	194.9	7.9%	90-95	0.0	0.0%	150-155	0.0	0.0%
35-40	204.5	8.2%	95-100	0.0	0.0%	155-160	0.0	0.0%
40-45	207.9	8.4%	100-105	0.0	0.0%	160-165	0.0	0.0%
45-50	205.7	8.3%	105-110	0.0	0.0%	165-170	0.0	0.0%
50-55	198.3	8.0%	110-115	0.0	0.0%	170-175	0.0	0.0%
55-60	186.8	7.5%	115-120	0.0	0.0%	175-180	0.0	0.0%

Zone	Lumens	% of Luminaire
0-40	1038.2	41.8%
0-60	1837.0	74.0%
0-90	2482.7	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	830	830	830	830	830	830	830	830	830	830	830	830	830	830	830	830
5	837	824	824	826	825	826	824	824	837	824	824	826	825	826	824	824
10	821	810	811	816	816	816	811	810	821	810	811	816	816	816	811	810
15	795	786	791	799	801	799	791	786	795	786	791	799	801	799	791	786
20	759	752	763	776	779	776	763	752	759	752	763	776	779	776	763	752
25	713	710	727	746	752	746	727	710	713	710	727	746	752	746	727	710
30	661	661	685	710	719	710	685	661	661	661	685	710	719	710	685	661
35	602	607	637	670	682	670	637	607	602	607	637	670	682	670	637	607
40	540	548	586	627	643	627	586	548	540	548	586	627	643	627	586	548
45	476	488	533	584	604	584	533	488	476	488	533	584	604	584	533	488
50	411	425	479	540	564	540	479	425	411	425	479	540	564	540	479	425
55	347	364	427	495	522	495	427	364	347	364	427	495	522	495	427	364
60	286	306	377	451	480	451	377	306	286	306	377	451	480	451	377	306
65	227	250	328	404	432	404	328	250	227	250	328	404	432	404	328	250
70	171	198	279	349	378	349	279	198	171	198	279	349	378	349	279	198
75	120	151	224	289	319	289	224	151	120	151	224	289	319	289	224	151
80	74	103	164	226	257	226	164	103	74	103	164	226	257	226	164	103
85	33	51	89	115	125	115	89	51	33	51	89	115	125	115	89	51
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	2431	2431	2431
45	1972	2209	2504
55	1774	2179	2669
65	1573	2272	2996
75	1359	2535	3609
85	1096	2999	4208



### 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	2957	2957	2957	2957	2888	2888	2888	2888	2760	2760	2760	2642	2642	2642	2535	2535	2535	2484
1	2672	2541	2423	2317	2603	2484	2377	2279	2377	2288	2207	2278	2206	2138	2188	2129	2074	2020
2	2416	2196	2013	1860	2349	2148	1980	1837	2058	1916	1793	1975	1856	1752	1898	1800	1712	1656
3	2195	1917	1703	1532	2131	1877	1678	1517	1802	1631	1490	1732	1586	1463	1667	1543	1437	1380
4	2006	1693	1465	1290	1947	1660	1446	1281	1596	1410	1262	1537	1375	1244	1482	1342	1227	1171
5	1842	1510	1278	1107	1789	1482	1264	1100	1428	1235	1088	1378	1208	1075	1331	1182	1063	1008
6	1701	1358	1129	964	1652	1334	1117	959	1289	1095	950	1246	1073	941	1206	1053	933	880
7	1576	1231	1007	850	1532	1210	998	847	1171	980	840	1135	962	833	1100	945	827	776
8	1467	1123	906	758	1428	1105	899	755	1072	884	750	1040	870	745	1011	856	740	692
9	1371	1031	822	681	1335	1016	816	679	987	804	676	959	792	672	934	780	668	621
10	1286	951	751	618	1253	938	746	616	913	736	613	889	726	610	867	716	607	563

### Cone of Light Tabulation

Mounting Height	Footcandles at Nadir	Diameter (Feet)
4.00	51.9	4.92
6.00	23.0	7.39
8.00	13.0	9.85
10.0	8.30	12.3
12.0	5.76	14.8
14.0	4.23	17.2
16.0	3.24	19.7

### Cone of Light Plot

