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

Order Number  
10740370  
Test Number  
1020060

Test Date

2015-04-16

Prepared By

Barry Mello Jr., Technician

Approved By

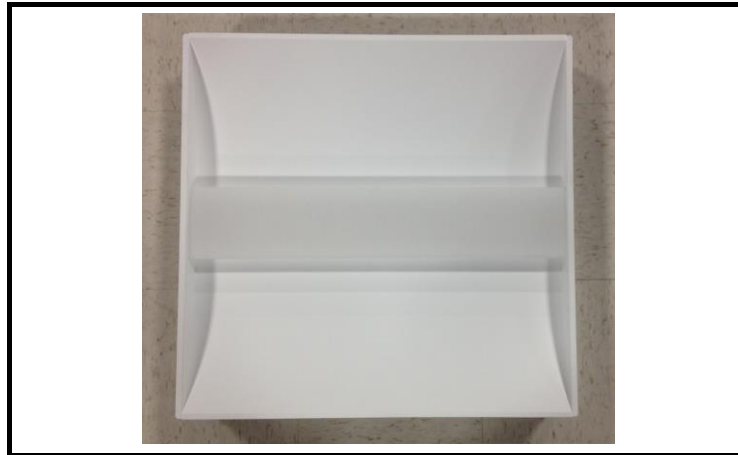
Kyle Spaziani, Project Handler

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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:	2508 Lumens
Luminaire Efficacy:	92.4 lm/w
Maximum Candela:	831 Candela

### Electrical Data

Test Temperature:	24.6 °C
Voltage:	120.0 VAC
Current:	0.2270 A
Power:	27.14 W
Power Factor:	0.997
Frequency:	60 Hz
Current THD:	5.64 %

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	0.2270 A	27.14 W	0.997	60 Hz	5.64 %

### Summary of Results

#### Spacing Criteria

0-180: 1.19  
90-270: 1.33

**Total Lumen Output:**

2508 Lumens

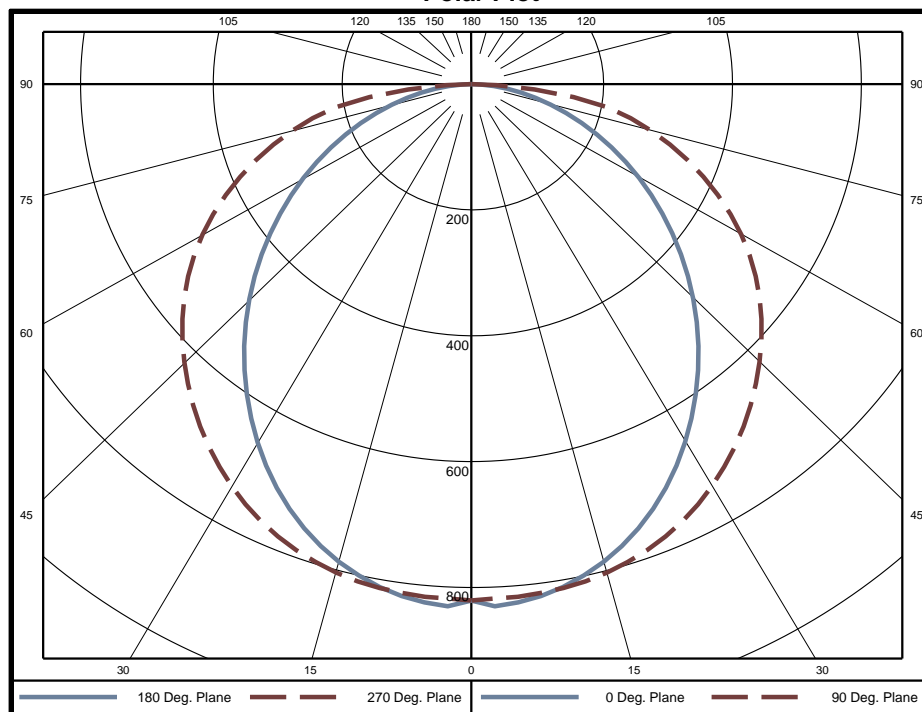
**Luminaire Efficacy:**

92.4 lm/w

**Maximum Candela:**

831 Candela

### Polar Plot



### Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	20.8	0.8%	60-65	176.0	7.0%	120-125	0.0	0.0%
5-10	58.1	2.3%	65-70	153.5	6.1%	125-130	0.0	0.0%
10-15	94.8	3.8%	70-75	127.0	5.1%	130-135	0.0	0.0%
15-20	128.3	5.1%	75-80	96.8	3.9%	135-140	0.0	0.0%
20-25	157.5	6.3%	80-85	60.2	2.4%	140-145	0.0	0.0%
25-30	181.1	7.2%	85-90	17.3	0.7%	145-150	0.0	0.0%
30-35	198.7	7.9%	90-95	0.0	0.0%	150-155	0.0	0.0%
35-40	209.9	8.4%	95-100	0.0	0.0%	155-160	0.0	0.0%
40-45	214.7	8.6%	100-105	0.0	0.0%	160-165	0.0	0.0%
45-50	213.2	8.5%	105-110	0.0	0.0%	165-170	0.0	0.0%
50-55	206.1	8.2%	110-115	0.0	0.0%	170-175	0.0	0.0%
55-60	193.6	7.7%	115-120	0.0	0.0%	175-180	0.0	0.0%

Zone	Lumens	% of Luminaire
0-40	1049.3	41.8%
0-60	1876.9	74.8%
0-90	2507.8	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	821	821	821	821	821	821	821	821	821	821	821	821	821	821	821	821
5	827	816	816	819	818	819	816	816	827	816	816	819	818	819	816	816
10	812	803	806	812	813	812	806	803	812	803	806	812	813	812	806	803
15	786	780	789	801	804	801	789	780	786	780	789	801	804	801	789	780
20	751	749	766	783	788	783	766	749	751	749	766	783	788	783	766	749
25	708	711	735	759	767	759	735	711	708	711	735	759	767	759	735	711
30	658	665	697	728	738	728	697	665	658	665	697	728	738	728	697	665
35	602	615	655	691	704	691	655	615	602	615	655	691	704	691	655	615
40	544	561	607	650	666	650	607	561	544	561	607	650	666	650	607	561
45	483	504	556	606	625	606	556	504	483	504	556	606	625	606	556	504
50	421	444	502	559	581	559	502	444	421	444	502	559	581	559	502	444
55	359	385	448	510	532	510	448	385	359	385	448	510	532	510	448	385
60	298	327	395	455	478	455	395	327	298	327	395	455	478	455	395	327
65	238	270	340	395	417	395	340	270	238	270	340	395	417	395	340	270
70	181	216	281	332	353	332	281	216	181	216	281	332	353	332	281	216
75	127	163	218	264	285	264	218	163	127	163	218	264	285	264	218	163
80	78	108	151	193	212	193	151	108	78	108	151	193	212	193	151	108
85	35	51	74	90	97	90	74	51	35	51	74	90	97	90	74	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	2405	2405	2405
45	2001	2304	2590
55	1833	2290	2720
65	1651	2357	2893
75	1433	2462	3226
85	1162	2495	3272



### 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	2987	2987	2987	2987	2918	2918	2918	2918	2788	2788	2788	2670	2670	2670	2561	2561	2561	2509
1	2705	2575	2459	2354	2636	2518	2411	2315	2410	2322	2241	2311	2239	2172	2219	2161	2107	2053
2	2447	2227	2045	1891	2379	2179	2011	1868	2088	1946	1824	2005	1886	1782	1927	1829	1741	1685
3	2223	1945	1729	1558	2159	1904	1704	1543	1828	1656	1515	1758	1611	1488	1692	1568	1462	1405
4	2031	1717	1487	1311	1971	1683	1468	1302	1618	1431	1283	1559	1396	1265	1503	1363	1247	1191
5	1865	1530	1296	1124	1811	1501	1282	1117	1447	1253	1104	1397	1226	1092	1349	1200	1079	1024
6	1720	1375	1144	977	1671	1351	1132	973	1305	1109	964	1262	1088	955	1221	1067	946	892
7	1594	1245	1019	861	1550	1225	1010	858	1185	992	851	1148	974	844	1114	957	838	786
8	1483	1135	917	766	1443	1118	909	764	1084	894	759	1052	880	754	1022	866	749	700
9	1385	1041	831	689	1349	1026	825	687	997	812	683	969	800	679	944	789	675	628
10	1299	961	758	624	1266	947	753	622	922	743	619	898	733	616	875	723	613	568

### Cone of Light Tabulation

Mounting Height	Footcandles at Nadir	Diameter (Feet)
4.00	51.3	5.04
6.00	22.8	7.57
8.00	12.8	10.1
10.0	8.21	12.6
12.0	5.70	15.1
14.0	4.19	17.7
16.0	3.21	20.2

### Cone of Light Plot

