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## Indoor Distribution Test Report

Relevant Standards  
IES LM-79-2008  
ANSI C82.77-2002

Prepared For  
**Mercury Lighting**

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United States

Catalog Number  
**LR5T-22G-3000-35K-U30-UNI-XXXX**

Order Number  
11163500  
Test Number  
1213223

Test Date

2016-02-24

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:** 64 white LEDs  
**Mounting:** Recessed  
**Ballast/Driver:** One Universal Everline D10CC30UNVTZ-C

### Luminaire



### Luminaire Characteristics

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

### Summary of Results

Total Luminaire Output: 2963 Lumens  
Luminaire Efficacy: 94.2 lm/w  
Maximum Candela: 1071 Candela

### Electrical Data

Test Temperature: 24.6 °C  
Voltage: 120.0 VAC  
Current: 0.2630 A  
Power: 31.47 W  
Power Factor: 0.997  
Frequency: 60 Hz  
Current THD: 5.23 %

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	0.2630 A	31.47 W	0.997	60 Hz	5.23 %

### Summary of Results

#### Spacing Criteria

0-180: 1.15  
90-270: 1.15

#### Total Lumen Output:

2963 Lumens

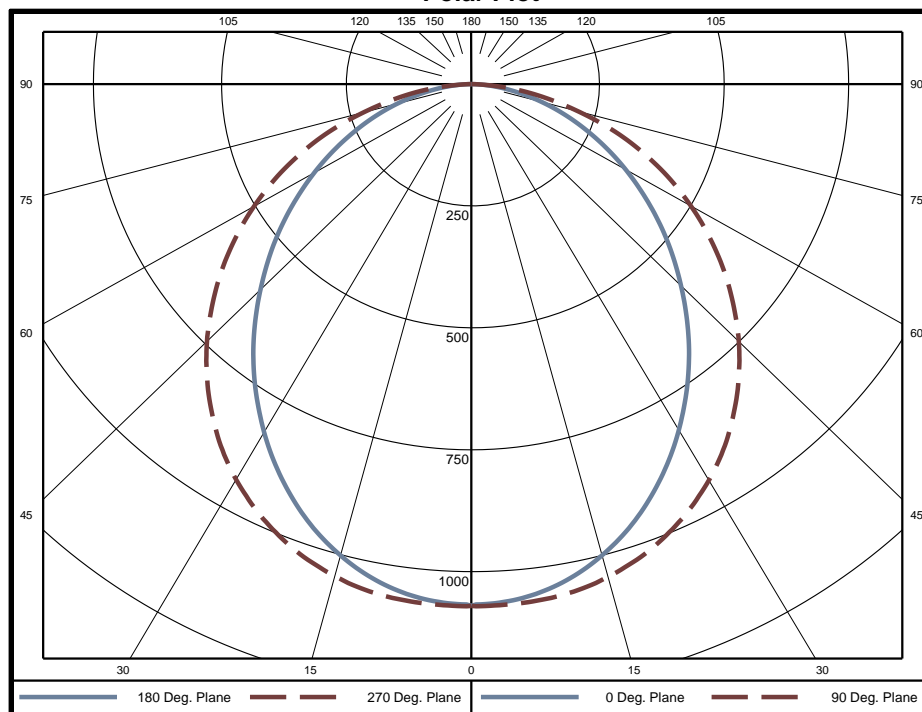
#### Luminaire Efficacy:

94.2 lm/w

#### Maximum Candela:

1071 Candela

### Polar Plot



### Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	25.5	0.9%	60-65	195.5	6.6%	120-125	0	0.0%
5-10	75.7	2.6%	65-70	162.8	5.5%	125-130	0	0.0%
10-15	123.2	4.2%	70-75	125.9	4.2%	130-135	0	0.0%
15-20	166.1	5.6%	75-80	85.8	2.9%	135-140	0	0.0%
20-25	202.7	6.8%	80-85	47.0	1.6%	140-145	0	0.0%
25-30	231.7	7.8%	85-90	11.5	0.4%	145-150	0	0.0%
30-35	252.2	8.5%	90-95	0	0.0%	150-155	0	0.0%
35-40	263.7	8.9%	95-100	0	0.0%	155-160	0	0.0%
40-45	265.9	9.0%	100-105	0	0.0%	160-165	0	0.0%
45-50	259.5	8.8%	105-110	0	0.0%	165-170	0	0.0%
50-55	245.0	8.3%	110-115	0	0.0%	170-175	0	0.0%
55-60	223.3	7.5%	115-120	0	0.0%	175-180	0	0.0%

Zone	Lumens	% of Luminaire
0-40	1341	45.3%
0-60	2335	78.8%
0-90	2963	100.0%
90-180	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	1070	1070	1070	1070	1070	1070	1070	1070	1070	1070	1070	1070	1070	1070	1070	1070
5	1061	1065	1065	1066	1069	1066	1065	1065	1061	1065	1065	1066	1069	1066	1065	1065
10	1038	1045	1052	1058	1062	1058	1052	1045	1038	1045	1052	1058	1062	1058	1052	1045
15	1001	1012	1028	1040	1046	1040	1028	1012	1001	1012	1028	1040	1046	1040	1028	1012
20	952	969	992	1011	1020	1011	992	969	952	969	992	1011	1020	1011	992	969
25	892	914	948	973	984	973	948	914	892	914	948	973	984	973	948	914
30	824	852	894	925	938	925	894	852	824	852	894	925	938	925	894	852
35	750	784	833	869	882	869	833	784	750	784	833	869	882	869	833	784
40	672	710	765	804	818	804	765	710	672	710	765	804	818	804	765	710
45	591	633	691	731	746	731	691	633	591	633	691	731	746	731	691	633
50	513	555	614	655	668	655	614	555	513	555	614	655	668	655	614	555
55	434	478	534	573	586	573	534	478	434	478	534	573	586	573	534	478
60	358	400	453	490	500	490	453	400	358	400	453	490	500	490	453	400
65	284	324	372	404	412	404	372	324	284	324	372	404	412	404	372	324
70	214	251	294	315	319	315	294	251	214	251	294	315	319	315	294	251
75	149	181	212	222	221	222	212	181	149	181	212	222	221	222	212	181
80	89	115	130	133	134	133	130	115	89	115	130	133	134	133	130	115
85	39	50	54	55	54	55	54	50	39	50	54	55	54	55	54	50
90	0	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
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	3135	3135	3135
45	2450	2863	3091
55	2217	2728	2994
65	1970	2580	2855
75	1687	2403	2503
85	1307	1831	1814



### 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	3528	3528	3528	3528	3446	3446	3446	3446	3292	3292	3292	3152	3152	3152	3024	3024	3024	2963
1	3221	3078	2950	2835	3140	3010	2894	2788	2884	2788	2700	2768	2690	2617	2661	2598	2539	2477
2	2928	2682	2478	2307	2849	2626	2438	2280	2520	2362	2226	2423	2291	2175	2333	2224	2126	2062
3	2669	2355	2112	1918	2595	2308	2082	1901	2219	2026	1867	2137	1972	1834	2061	1922	1802	1737
4	2444	2087	1826	1626	2375	2047	1803	1614	1973	1760	1592	1903	1719	1570	1839	1680	1548	1484
5	2248	1865	1598	1401	2185	1832	1581	1393	1769	1547	1377	1710	1515	1362	1655	1484	1347	1284
6	2076	1680	1414	1224	2019	1652	1401	1218	1598	1374	1207	1548	1349	1196	1501	1324	1185	1124
7	1926	1524	1264	1081	1874	1500	1253	1077	1454	1231	1069	1411	1211	1061	1371	1191	1053	994
8	1793	1391	1139	965	1747	1371	1130	962	1331	1112	956	1294	1095	950	1260	1079	944	887
9	1676	1278	1034	869	1634	1260	1026	867	1226	1012	862	1194	998	857	1163	984	853	799
10	1572	1179	945	789	1533	1164	939	787	1134	927	783	1107	915	779	1080	903	776	724

### Cone of Light Tabulation

Mounting Height	Footcandles at Nadir	Diameter (Feet)
4.00	66.9	4.93
6.00	29.7	7.40
8.00	16.7	9.87
10.0	10.7	12.3
12.0	7.43	14.8
14.0	5.46	17.3
16.0	4.18	19.7

### Cone of Light Plot

