



UL Verification Services Inc.  
7036 Snowdrift Road  
Allentown, PA 18106  
610-774-1300



## Indoor Distribution Test Report

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

Prepared For  
**Mercury Lighting**

Stephen Bambush  
20 Audrey Pl  
Fairfield, NJ 07004-3416  
United States

Catalog Number  
**LR2T-22G-3000-35K-U30-UNI-XXXX**

Order Number  
11163500  
Test Number  
1213222

Test Date

2016-02-24

Prepared By

Derek Smarr, Technician

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: 2972 Lumens  
Luminaire Efficacy: 94.4 lm/w  
Maximum Candela: 1099 Candela

### Electrical Data

Test Temperature: 24.6 °C  
Voltage: 120.0 VAC  
Current: 0.2630 A  
Power: 31.48 W  
Power Factor: 0.997  
Frequency: 60 Hz  
Current THD: 5.21 %

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	31.48 W	0.997	60 Hz	5.21 %

### Summary of Results

#### Spacing Criteria

0-180: 1.15  
90-270: 1.15

#### Total Lumen Output:

2972 Lumens

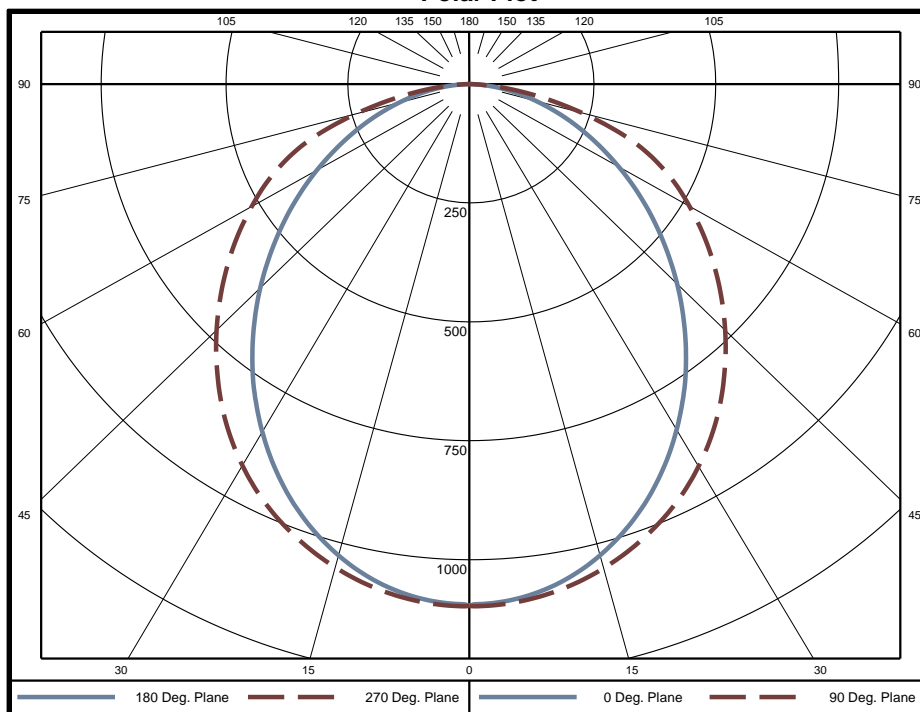
#### Luminaire Efficacy:

94.4 lm/w

#### Maximum Candela:

1099 Candela

### Polar Plot



### Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	26.2	0.9%	60-65	196.6	6.6%	120-125	0	0.0%
5-10	77.4	2.6%	65-70	167.2	5.6%	125-130	0	0.0%
10-15	125.4	4.2%	70-75	131.1	4.4%	130-135	0	0.0%
15-20	168.1	5.7%	75-80	88.8	3.0%	135-140	0	0.0%
20-25	204.3	6.9%	80-85	46.7	1.6%	140-145	0	0.0%
25-30	232.4	7.8%	85-90	11.0	0.4%	145-150	0	0.0%
30-35	251.8	8.5%	90-95	0	0.0%	150-155	0	0.0%
35-40	262.0	8.8%	95-100	0	0.0%	155-160	0	0.0%
40-45	263.1	8.9%	100-105	0	0.0%	160-165	0	0.0%
45-50	256.0	8.6%	105-110	0	0.0%	165-170	0	0.0%
50-55	242.0	8.1%	110-115	0	0.0%	170-175	0	0.0%
55-60	221.8	7.5%	115-120	0	0.0%	175-180	0	0.0%

Zone	Lumens	% of Luminaire
0-40	1348	45.3%
0-60	2331	78.4%
0-90	2972	100.0%
90-180	0	0.0%



**Candela Tabulation**  
Horizontal Angle (Degrees)

Vertical Angle (Degrees)	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	1097	1097	1097	1097	1097	1097	1097	1097	1097	1097	1097	1097	1097	1097	1097	1097
5	1087	1092	1092	1091	1093	1091	1092	1092	1087	1092	1092	1091	1093	1091	1092	1092
10	1065	1070	1073	1075	1079	1075	1073	1070	1065	1070	1073	1075	1079	1075	1073	1070
15	1027	1035	1041	1049	1054	1049	1041	1035	1027	1035	1041	1049	1054	1049	1041	1035
20	977	986	1000	1013	1020	1013	1000	986	977	986	1000	1013	1020	1013	1000	986
25	915	928	949	969	979	969	949	928	915	928	949	969	979	969	949	928
30	844	860	890	917	929	917	890	860	844	860	890	917	929	917	890	860
35	768	787	825	857	870	857	825	787	768	787	825	857	870	857	825	787
40	685	708	754	789	803	789	754	708	685	708	754	789	803	789	754	708
45	602	628	678	717	733	717	678	628	602	628	678	717	733	717	678	628
50	518	549	600	643	661	643	600	549	518	549	600	643	661	643	600	549
55	436	470	522	569	589	569	522	470	436	470	522	569	589	569	522	470
60	356	393	444	495	516	495	444	393	356	393	444	495	516	495	444	393
65	280	317	370	423	442	423	370	317	280	317	370	423	442	423	370	317
70	210	245	300	342	354	342	300	245	210	245	300	342	354	342	300	245
75	146	178	225	239	240	239	225	178	146	178	225	239	240	239	225	178
80	89	115	136	136	134	136	136	115	89	115	136	136	134	136	136	115
85	38	50	53	50	49	50	53	50	38	50	53	50	49	50	53	50
90	0	1	2	2	2	2	2	1	0	1	2	2	2	2	2	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)

Vertical Angle (Degrees)	Horizontal Angle (Degrees)		
	0	45	90
0	3215	3215	3215
45	2494	2810	3039
55	2227	2665	3009
65	1944	2567	3062
75	1647	2545	2715
85	1286	1765	1660



### 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	3538	3538	3538	3538	3455	3455	3455	3455	3302	3302	3302	3161	3161	3161	3032	3032	3032	2972
1	3229	3085	2957	2841	3148	3018	2901	2795	2891	2795	2706	2775	2696	2623	2667	2604	2545	2482
2	2935	2687	2483	2311	2856	2631	2443	2283	2525	2367	2230	2428	2295	2179	2337	2228	2130	2065
3	2675	2360	2116	1921	2601	2312	2086	1904	2224	2029	1870	2141	1976	1837	2065	1925	1805	1739
4	2450	2092	1829	1629	2381	2052	1807	1617	1977	1764	1595	1907	1722	1573	1843	1683	1551	1486
5	2254	1870	1602	1404	2191	1837	1585	1396	1773	1551	1381	1714	1519	1365	1659	1488	1350	1287
6	2082	1685	1419	1227	2025	1657	1405	1222	1603	1378	1211	1553	1353	1200	1506	1328	1189	1127
7	1932	1529	1268	1086	1880	1505	1257	1081	1459	1236	1073	1416	1215	1065	1376	1195	1057	998
8	1799	1397	1144	970	1753	1376	1135	967	1337	1117	960	1299	1100	954	1264	1084	948	892
9	1682	1283	1039	874	1640	1265	1031	871	1231	1017	867	1199	1003	862	1169	989	857	803
10	1578	1185	950	793	1540	1169	944	791	1140	932	788	1112	920	784	1085	908	780	728

### Cone of Light Tabulation

Mounting Height	Footcandles at Nadir	Diameter (Feet)
4.00	68.6	4.83
6.00	30.5	7.24
8.00	17.1	9.66
10.0	11.0	12.1
12.0	7.62	14.5
14.0	5.60	16.9
16.0	4.29	19.3

### Cone of Light Plot

