



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

Catalog Number  
**LR5-24G-6200-35K-U55-UNI-XXXX**  
Order Number  
10761618  
Test Number  
1105066

Test Date

2015-06-11

Prepared By

Derek Smarr, Technician

Approved By

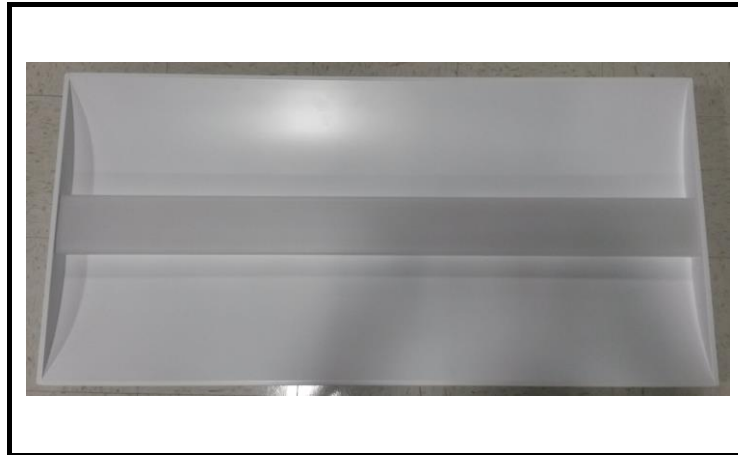
Kyle Spaziani, Project Handler

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**Luminaire Description:** White steel housing / reflector, frosted plastic lens enclosure  
**Lamp:** 112 white LEDs  
**Mounting:** Recessed  
**Ballast/Driver:** One Universal Everline D10CC55UNVTZ-C (@1500mA)

### Luminaire



### Luminaire Characteristics

Luminous Length: 47.00 in.  
Luminous Width: 22.75 in.

### Summary of Results

Total Luminaire Output:	5789 Lumens
Luminaire Efficacy:	92 lm/w
Maximum Candela:	1868 Candela

### Electrical Data

Test Temperature:	24.7 °C
Voltage:	120.0 VAC
Current:	0.5250 A
Power:	62.92 W
Power Factor:	0.999
Frequency:	60 Hz
Current THD:	4.03 %

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
24.7 °C	120.0 VAC	0.5250 A	62.92 W	0.999	60 Hz	4.03 %

### Summary of Results

#### Spacing Criteria

0-180: 1.19  
90-270: 1.19

#### Total Lumen Output:

5789 Lumens

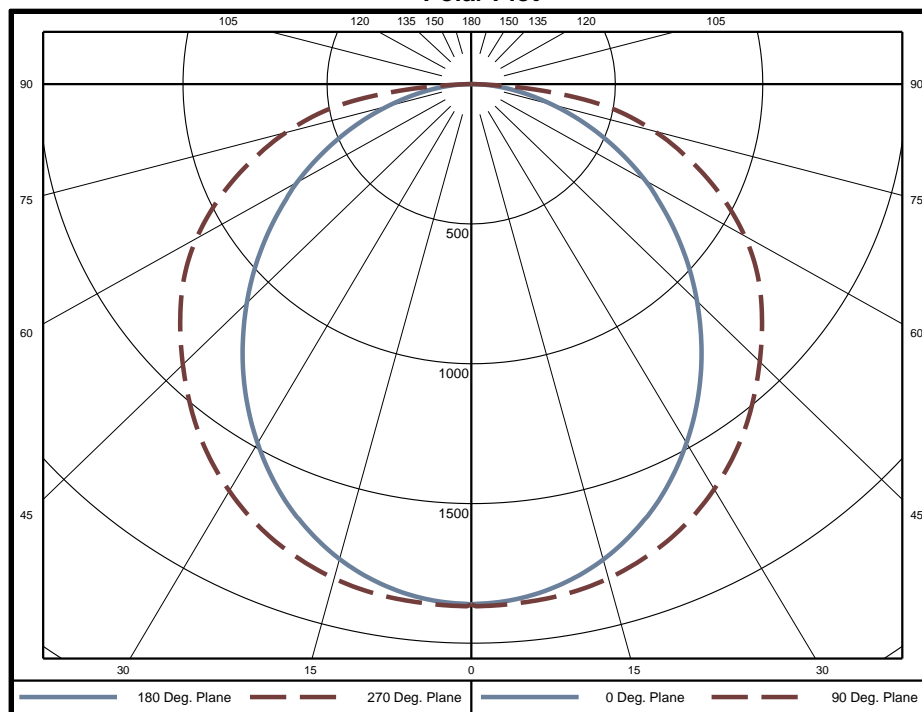
#### Luminaire Efficacy:

92.0 lm/w

#### Maximum Candela:

1868 Candela

### Polar Plot



### Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	44.4	0.8%	60-65	411.0	7.1%	120-125	0	0.0%
5-10	131.9	2.3%	65-70	362.0	6.3%	125-130	0	0.0%
10-15	215.2	3.7%	70-75	302.8	5.2%	130-135	0	0.0%
15-20	291.5	5.0%	75-80	234.4	4.0%	135-140	0	0.0%
20-25	358.0	6.2%	80-85	149.7	2.6%	140-145	0	0.0%
25-30	412.4	7.1%	85-90	42.0	0.7%	145-150	0	0.0%
30-35	453.2	7.8%	90-95	0	0.0%	150-155	0	0.0%
35-40	479.4	8.3%	95-100	0	0.0%	155-160	0	0.0%
40-45	490.7	8.5%	100-105	0	0.0%	160-165	0	0.0%
45-50	488.3	8.4%	105-110	0	0.0%	165-170	0	0.0%
50-55	473.8	8.2%	110-115	0	0.0%	170-175	0	0.0%
55-60	448.0	7.7%	115-120	0	0.0%	175-180	0	0.0%

Zone	Lumens	% of Luminaire
0-40	2386	41.2%
0-60	4287	74.1%
0-90	5789	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	1861	1861	1861	1861	1861	1861	1861	1861	1861	1861	1861	1861	1861	1861	1861	1861
5	1848	1853	1853	1855	1863	1855	1853	1853	1848	1853	1853	1855	1863	1855	1853	1853
10	1815	1823	1831	1842	1854	1842	1831	1823	1815	1823	1831	1842	1854	1842	1831	1823
15	1761	1774	1795	1816	1831	1816	1795	1774	1761	1774	1795	1816	1831	1816	1795	1774
20	1686	1707	1743	1775	1794	1775	1743	1707	1686	1707	1743	1775	1794	1775	1743	1707
25	1595	1623	1675	1720	1744	1720	1675	1623	1595	1623	1675	1720	1744	1720	1675	1623
30	1486	1523	1592	1651	1679	1651	1592	1523	1486	1523	1592	1651	1679	1651	1592	1523
35	1367	1411	1497	1568	1602	1568	1497	1411	1367	1411	1497	1568	1602	1568	1497	1411
40	1239	1291	1391	1475	1512	1475	1391	1291	1239	1291	1391	1475	1512	1475	1391	1291
45	1106	1163	1277	1372	1415	1372	1277	1163	1106	1163	1277	1372	1415	1372	1277	1163
50	970	1033	1156	1268	1318	1268	1156	1033	970	1033	1156	1268	1318	1268	1156	1033
55	832	900	1034	1164	1217	1164	1034	900	832	900	1034	1164	1217	1164	1034	900
60	699	767	915	1051	1099	1051	915	767	699	767	915	1051	1099	1051	915	767
65	561	642	802	921	963	921	802	642	561	642	802	921	963	921	802	642
70	426	518	677	775	815	775	677	518	426	518	677	775	815	775	677	518
75	298	403	533	625	663	625	533	403	298	403	533	625	663	625	533	403
80	183	282	380	459	490	459	380	282	183	282	380	459	490	459	380	282
85	86	147	194	214	224	214	194	147	86	147	194	214	224	214	194	147
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)

Vertical Angle (Degrees)	Horizontal Angle (Degrees)		
	0	45	90
0	2698	2698	2698
45	2267	2617	2900
55	2102	2613	3075
65	1923	2752	3304
75	1666	2985	3712
85	1426	3229	3718



### 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	6892	6892	6892	6892	6731	6731	6731	6731	6432	6432	6432	6158	6158	6158	5907	5907	5907	5789
1	6230	5925	5652	5406	6068	5792	5543	5317	5542	5336	5147	5313	5144	4988	5102	4966	4839	4713
2	5630	5116	4691	4333	5473	5005	4613	4280	4795	4464	4178	4602	4325	4081	4423	4194	3989	3857
3	5111	4463	3962	3562	4963	4370	3904	3529	4193	3794	3464	4030	3689	3402	3879	3590	3342	3209
4	4667	3937	3403	2995	4530	3858	3359	2973	3710	3275	2930	3572	3194	2888	3444	3117	2848	2716
5	4284	3508	2965	2564	4159	3441	2931	2549	3316	2865	2519	3199	2802	2491	3089	2742	2462	2334
6	3952	3151	2614	2229	3838	3095	2587	2218	2988	2535	2197	2889	2485	2176	2795	2437	2156	2032
7	3661	2853	2329	1962	3558	2805	2307	1954	2714	2265	1939	2628	2225	1923	2548	2185	1908	1790
8	3406	2601	2094	1746	3313	2559	2076	1740	2481	2042	1728	2408	2008	1717	2339	1976	1705	1592
9	3181	2385	1897	1568	3097	2350	1883	1563	2282	1854	1554	2218	1827	1545	2158	1800	1536	1428
10	2982	2199	1731	1419	2906	2169	1719	1416	2110	1695	1409	2055	1672	1402	2003	1650	1395	1291

### Cone of Light Tabulation

Mounting Height	Footcandles at Nadir	Diameter (Feet)
4.00	116	5.07
6.00	51.7	7.60
8.00	29.1	10.1
10.0	18.6	12.7
12.0	12.9	15.2
14.0	9.50	17.7
16.0	7.27	20.3

### Cone of Light Plot

