



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  
**L501-4-5300-40K-CC-HTA-U55-UNI**  
Order Number  
10891761  
Test Number  
1133380

Test Date

2015-07-24

Prepared By

Dane Hernandez-Adams, Technician

Approved By

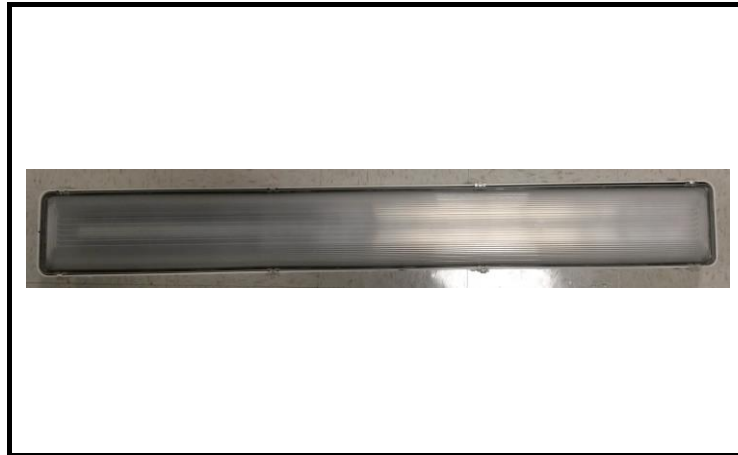
Kyle Spaziani, Project Handler

The results contained in this report pertain only to the tested sample.  
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**Luminaire Description:** Molded white plastic housing, clear stepped plastic enclosure  
**Lamp:** 112 white LEDs  
**Mounting:** Pendant  
**Ballast/Driver:** One Universal Everline D10CC55UNVTZ-C

#### Luminaire



#### Luminaire Characteristics

Luminous Length: 51.50 in.  
Luminous Width: 6.500 in.  
Luminous Height: 2.00 in.

#### Summary of Results

Total Luminaire Output: 5279 Lumens  
Luminaire Efficacy: 99.2 lm/w  
Maximum Candela: 1896 Candela

#### Electrical Data

Test Temperature: 25.7 °C  
Voltage: 120.0 VAC  
Current: 0.4441 A  
Power: 53.19 W  
Power Factor: 0.998  
Frequency: 60 Hz  
Current THD: 4.92 %

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
25.7 °C	120.0 VAC	0.4441 A	53.19 W	0.998	60 Hz	4.92 %

### Summary of Results

#### Spacing Criteria

0-180: 1.24  
90-270: 1.24

#### Total Lumen Output:

5279 Lumens

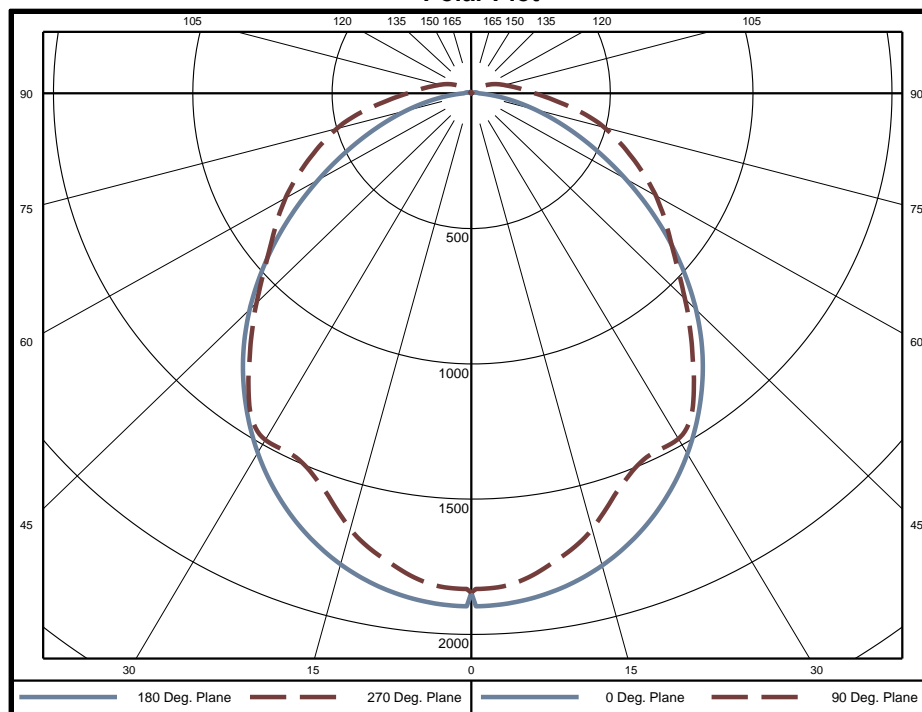
#### Luminaire Efficacy:

99.2 lm/w

#### Maximum Candela:

1896 Candela

### Polar Plot



### Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	44.0	0.8%	60-65	310.2	5.9%	120-125	10.1	0.2%
5-10	129.6	2.5%	65-70	265.0	5.0%	125-130	5.2	0.1%
10-15	208.2	3.9%	70-75	220.1	4.2%	130-135	2.2	0.0%
15-20	275.9	5.2%	75-80	175.8	3.3%	135-140	0.3	0.0%
20-25	331.1	6.3%	80-85	131.8	2.5%	140-145	0.0	0.0%
25-30	378.3	7.2%	85-90	95.6	1.8%	145-150	0.0	0.0%
30-35	418.0	7.9%	90-95	71.5	1.4%	150-155	0.0	0.0%
35-40	438.2	8.3%	95-100	56.7	1.1%	155-160	0.0	0.0%
40-45	437.1	8.3%	100-105	43.9	0.8%	160-165	0.0	0.0%
45-50	417.8	7.9%	105-110	33.2	0.6%	165-170	0.0	0.0%
50-55	387.7	7.3%	110-115	23.8	0.5%	170-175	0.0	0.0%
55-60	351.8	6.7%	115-120	16.2	0.3%	175-180	0.0	0.0%

Zone	Lumens	% of Luminaire
0-40	2223	42.1%
0-60	3818	72.3%
0-90	5016	95.0%
90-180	263	5.0%



**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	1846	1846	1846	1846	1846	1846	1846	1846	1846	1846	1846	1846	1846	1846	1846	1846
5	1886	1843	1822	1820	1816	1820	1822	1843	1886	1843	1822	1820	1816	1820	1822	1843
10	1857	1812	1776	1760	1752	1760	1776	1812	1857	1812	1776	1760	1752	1760	1776	1812
15	1807	1758	1707	1683	1669	1683	1707	1758	1807	1758	1707	1683	1669	1683	1707	1758
20	1737	1680	1619	1568	1552	1568	1619	1680	1737	1680	1619	1568	1552	1568	1619	1680
25	1649	1584	1507	1479	1484	1479	1507	1584	1649	1584	1507	1479	1484	1479	1507	1584
30	1543	1475	1405	1450	1477	1450	1405	1475	1543	1475	1405	1450	1477	1450	1405	1475
35	1422	1355	1336	1398	1387	1398	1336	1355	1422	1355	1336	1398	1387	1398	1336	1355
40	1288	1224	1272	1248	1231	1248	1272	1224	1288	1224	1272	1248	1231	1248	1272	1224
45	1139	1098	1136	1091	1085	1091	1136	1098	1139	1098	1136	1091	1085	1091	1136	1098
50	976	969	964	948	955	948	964	969	976	969	964	948	955	948	964	969
55	807	835	803	831	855	831	803	835	807	835	803	831	855	831	803	835
60	642	685	669	739	766	739	669	685	642	685	669	739	766	739	669	685
65	489	529	561	646	672	646	561	529	489	529	561	646	672	646	561	529
70	356	394	466	553	582	553	466	394	356	394	466	553	582	553	466	394
75	241	285	374	467	496	467	374	285	241	285	374	467	496	467	374	285
80	144	197	292	376	399	376	292	197	144	197	292	376	399	376	292	197
85	67	128	221	287	300	287	221	128	67	128	221	287	300	287	221	128
90	27	82	164	217	228	217	164	82	27	82	164	217	228	217	164	82
95	22	59	132	173	181	173	132	59	22	59	132	173	181	173	132	59
100	18	41	106	140	147	140	106	41	18	41	106	140	147	140	106	41
105	14	26	82	114	121	114	82	26	14	26	82	114	121	114	82	26
110	10	12	61	91	100	91	61	12	10	12	61	91	100	91	61	12
115	6	4	41	71	80	71	41	4	6	4	41	71	80	71	41	4
120	3	2	23	52	60	52	23	2	3	2	23	52	60	52	23	2
125	1	0	9	34	43	34	9	0	1	0	9	34	43	34	9	0
130	0	0	0	19	27	19	0	0	0	0	0	19	27	19	0	0
135	0	0	0	4	12	4	0	0	0	0	0	4	12	4	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	8546	8546	8546
45	7177	5977	5433
55	6174	4799	4793
65	4945	4028	4434
75	3762	3494	4131
85	2476	3085	3532



### 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	6222	6222	6222	6222	6047	6047	6047	6047	5720	5720	5720	5420	5420	5420	5145	5145	5145	5016
1	5628	5355	5110	4889	5455	5208	4986	4784	4933	4751	4584	4681	4533	4396	4448	4330	4220	4088
2	5110	4656	4280	3964	4944	4532	4188	3896	4301	4013	3764	4087	3849	3639	3889	3694	3520	3388
3	4658	4087	3646	3294	4502	3983	3575	3247	3787	3440	3155	3605	3313	3067	3437	3192	2982	2853
4	4266	3624	3153	2793	4123	3535	3098	2759	3368	2991	2692	3214	2890	2627	3070	2793	2564	2439
5	3926	3241	2762	2408	3795	3165	2717	2382	3023	2632	2332	2891	2550	2283	2767	2472	2234	2114
6	3628	2920	2446	2105	3509	2856	2410	2085	2734	2339	2045	2620	2272	2007	2513	2208	1969	1854
7	3366	2650	2186	1861	3258	2595	2156	1845	2489	2098	1814	2390	2042	1782	2297	1988	1752	1642
8	3135	2420	1971	1662	3037	2372	1945	1649	2280	1897	1623	2194	1849	1597	2113	1804	1572	1468
9	2930	2222	1789	1497	2841	2181	1768	1486	2100	1726	1464	2025	1686	1443	1954	1647	1422	1323
10	2748	2052	1635	1358	2667	2015	1617	1349	1945	1581	1330	1878	1547	1312	1815	1513	1295	1201

### Cone of Light Tabulation

Mounting Height	Footcandles at Nadir	Diameter (Feet)
4.00	115	4.75
6.00	51.3	7.12
8.00	28.8	9.49
10.0	18.5	11.9
12.0	12.8	14.2
14.0	9.42	16.6
16.0	7.21	19.0

### Cone of Light Plot

