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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  
**LW10-4-5000-35K-HTA-U55-UNI-XXXX**

Order Number  
10966291  
Test Number  
1165980

Test Date

2015-10-05

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:** Formed white enamel steel housing, white enamel steel reflector, frosted plastic lens enclosure  
**Lamp:** 112 white LEDs  
**Mounting:** Surface  
**Ballast/Driver:** One Everline D10CC55UNVTZ-C

**Luminaire**



**Luminaire Characteristics**

Luminous Length: 45.00 in.  
Luminous Width: 2.750 in.  
Luminous Height: 1.75 in.

**Summary of Results**

Total Luminaire Output: 5300 Lumens  
Luminaire Efficacy: 103.2 lm/w  
Maximum Candela: 1595 Candela

**Electrical Data**

Test Temperature: 24.6 °C  
Voltage: 120.0 VAC  
Current: 0.4287 A  
Power: 51.36 W  
Power Factor: 0.998  
Frequency: 60 Hz  
Current THD: 4.89 %

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	0.4287 A	51.36 W	0.998	60 Hz	4.89 %

### Summary of Results

#### Spacing Criteria

0-180: 1.17  
90-270: 1.17

#### Total Lumen Output:

5300 Lumens

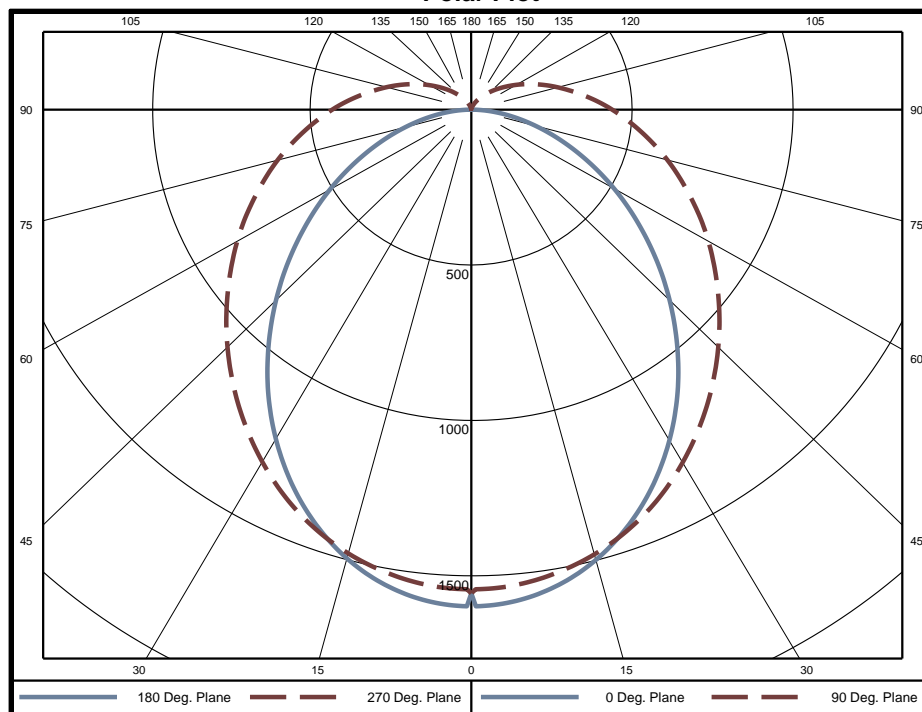
#### Luminaire Efficacy:

103.2 lm/w

#### Maximum Candela:

1595 Candela

### Polar Plot



### Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	37.0	0.7%	60-65	307.1	5.8%	120-125	31.9	0.6%
5-10	109.5	2.1%	65-70	277.0	5.2%	125-130	23.3	0.4%
10-15	177.3	3.3%	70-75	245.5	4.6%	130-135	16.5	0.3%
15-20	237.8	4.5%	75-80	213.5	4.0%	135-140	11.3	0.2%
20-25	288.6	5.4%	80-85	181.9	3.4%	140-145	7.2	0.1%
25-30	328.2	6.2%	85-90	152.4	2.9%	145-150	4.3	0.1%
30-35	355.8	6.7%	90-95	127.2	2.4%	150-155	2.4	0.0%
35-40	371.3	7.0%	95-100	105.5	2.0%	155-160	1.1	0.0%
40-45	375.3	7.1%	100-105	86.2	1.6%	160-165	0.4	0.0%
45-50	369.3	7.0%	105-110	69.4	1.3%	165-170	0.1	0.0%
50-55	354.7	6.7%	110-115	54.8	1.0%	170-175	0.0	0.0%
55-60	333.5	6.3%	115-120	42.3	0.8%	175-180	0.0	0.0%

Zone	Lumens	% of Luminaire
0-40	1906	36.0%
0-60	3338	63.0%
0-90	4716	89.0%
90-180	584	11.0%



**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	1553	1553	1553	1553	1553	1553	1553	1553	1553	1553	1553	1553	1553	1553	1553	1553
5	1584	1550	1533	1535	1533	1535	1533	1550	1584	1550	1533	1535	1533	1535	1533	1550
10	1550	1518	1506	1512	1511	1512	1506	1518	1550	1518	1506	1512	1511	1512	1506	1518
15	1494	1467	1462	1475	1478	1475	1462	1467	1494	1467	1462	1475	1478	1475	1462	1467
20	1418	1397	1404	1425	1432	1425	1404	1397	1418	1397	1404	1425	1432	1425	1404	1397
25	1326	1311	1332	1364	1376	1364	1332	1311	1326	1311	1332	1364	1376	1364	1332	1311
30	1220	1213	1249	1293	1309	1293	1249	1213	1220	1213	1249	1293	1309	1293	1249	1213
35	1105	1107	1158	1214	1236	1214	1158	1107	1105	1107	1158	1214	1236	1214	1158	1107
40	983	993	1060	1132	1160	1132	1060	993	983	993	1060	1132	1160	1132	1060	993
45	860	877	961	1048	1081	1048	961	877	860	877	961	1048	1081	1048	961	877
50	737	765	862	964	1002	964	862	765	737	765	862	964	1002	964	862	765
55	618	653	767	882	924	882	767	653	618	653	767	882	924	882	767	653
60	505	549	677	802	848	802	677	549	505	549	677	802	848	802	677	549
65	396	452	593	725	772	725	593	452	396	452	593	725	772	725	593	452
70	296	364	516	651	698	651	516	364	296	364	516	651	698	651	516	364
75	206	288	448	582	629	582	448	288	206	288	448	582	629	582	448	288
80	126	222	384	515	560	515	384	222	126	222	384	515	560	515	384	222
85	57	167	326	452	495	452	326	167	57	167	326	452	495	452	326	167
90	0	124	276	395	434	395	276	124	0	124	276	395	434	395	276	124
95	0	90	231	340	377	340	231	90	0	90	231	340	377	340	231	90
100	0	65	191	290	323	290	191	65	0	65	191	290	323	290	191	65
105	0	47	156	245	274	245	156	47	0	47	156	245	274	245	156	47
110	0	34	126	204	231	204	126	34	0	34	126	204	231	204	126	34
115	0	25	100	168	191	168	100	25	0	25	100	168	191	168	100	25
120	0	18	78	135	156	135	78	18	0	18	78	135	156	135	78	18
125	0	13	60	108	125	108	60	13	0	13	60	108	125	108	60	13
130	0	10	44	84	98	84	44	10	0	10	44	84	98	84	44	10
135	0	7	31	64	76	64	31	7	0	7	31	64	76	64	31	7
140	0	5	23	47	57	47	23	5	0	5	23	47	57	47	23	5
145	0	3	16	32	41	32	16	3	0	3	16	32	41	32	16	3
150	0	1	10	21	28	21	10	1	0	1	10	21	28	21	10	1
155	0	0	6	13	18	13	6	0	0	0	6	13	18	13	6	0
160	0	0	3	6	10	6	3	0	0	0	3	6	10	6	3	0
165	0	0	1	2	4	2	1	0	0	0	1	2	4	2	1	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	19460	19460	19460
45	14660	11520	11700
55	12780	9962	10570
65	10840	8688	9676
75	8707	7789	9012
85	5623	7255	8597



### 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	6170	6170	6170	6170	5959	5959	5959	5959	5564	5564	5564	5203	5203	5203	4872	4872	4872	4716
1	5516	5217	4949	4707	5306	5037	4795	4575	4701	4503	4322	4392	4233	4085	4107	3981	3863	3706
2	4983	4500	4101	3766	4783	4348	3984	3675	4061	3760	3500	3797	3550	3332	3553	3352	3173	3020
3	4527	3930	3469	3101	4341	3801	3376	3034	3556	3199	2905	3330	3032	2781	3121	2873	2661	2515
4	4138	3472	2984	2612	3967	3361	2910	2561	3152	2767	2463	2958	2631	2367	2777	2501	2273	2134
5	3801	3096	2604	2240	3645	3001	2543	2200	2821	2426	2122	2654	2313	2046	2497	2206	1971	1840
6	3508	2784	2298	1949	3367	2702	2248	1917	2546	2150	1854	2401	2056	1792	2265	1965	1731	1607
7	3252	2522	2049	1718	3123	2451	2007	1691	2315	1924	1639	2188	1844	1587	2069	1767	1536	1420
8	3026	2299	1843	1529	2909	2237	1806	1507	2119	1736	1463	2007	1667	1419	1902	1601	1376	1267
9	2826	2109	1670	1373	2720	2054	1638	1354	1950	1578	1317	1851	1518	1280	1759	1461	1243	1139
10	2649	1945	1523	1242	2553	1896	1496	1226	1804	1443	1194	1717	1391	1162	1634	1342	1130	1033

### Cone of Light Tabulation

Mounting Height	Footcandles at Nadir	Diameter (Feet)
4.00	97.1	4.82
6.00	43.1	7.23
8.00	24.3	9.64
10.0	15.5	12.0
12.0	10.8	14.5
14.0	7.93	16.9
16.0	6.07	19.3

### Cone of Light Plot

