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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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Catalog Number
LW4-4-5000-35K-HTA-U55-UNI-SR-XXXX

Order Number
10972369
Test Number
1164870

Test Date

2015-09-30

Prepared By

Kevin Rodriguez, Technician

Approved By

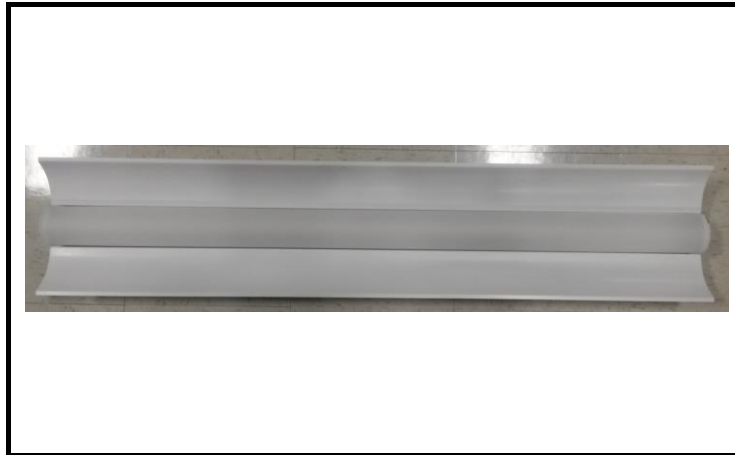
Kyle Spaziani, Project Handler

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, no enclosure
Lamp: 112 white LEDs
Mounting: Pendant
Ballast/Driver: One Universal Everline D10CC55UNVTZ-C

Luminaire



Luminaire Characteristics

Luminous Length: 45.00 in.
Luminous Width: 8.750 in.
Luminous Height: 1.75 in.

Summary of Results

Total Luminaire Output: 5157 Lumens
Luminaire Efficacy: 99.3 lm/w
Maximum Candela: 1781 Candela

Electrical Data

Test Temperature: 24.6 °C
Voltage: 120.0 VAC
Current: 0.4337 A
Power: 51.95 W
Power Factor: 0.998
Frequency: 60 Hz
Current THD: 4.73 %

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	0.4337 A	51.95 W	0.998	60 Hz	4.73 %

Summary of Results

Spacing Criteria

0-180: 1.18
90-270: 1.18

Total Lumen Output:

5157 Lumens

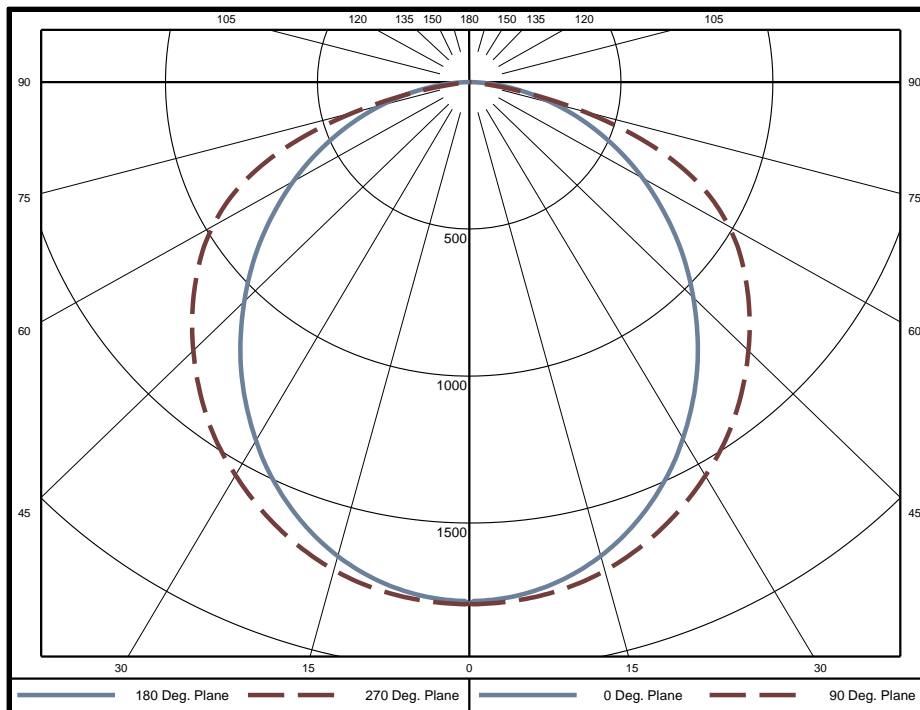
Luminaire Efficacy:

99.3 lm/w

Maximum Candela:

1781 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	42.3	0.8%	60-65	369.8	7.2%	120-125	0	0.0%
5-10	125.4	2.4%	65-70	317.9	6.2%	125-130	0	0.0%
10-15	204.0	4.0%	70-75	246.7	4.8%	130-135	0	0.0%
15-20	275.0	5.3%	75-80	158.1	3.1%	135-140	0	0.0%
20-25	335.7	6.5%	80-85	68.0	1.3%	140-145	0	0.0%
25-30	384.7	7.5%	85-90	16.8	0.3%	145-150	0	0.0%
30-35	420.8	8.2%	90-95	3.9	0.1%	150-155	0	0.0%
35-40	443.4	8.6%	95-100	1.8	0.0%	155-160	0	0.0%
40-45	452.3	8.8%	100-105	0.7	0.0%	160-165	0	0.0%
45-50	448.6	8.7%	105-110	0.2	0.0%	165-170	0	0.0%
50-55	433.4	8.4%	110-115	0.0	0.0%	170-175	0	0.0%
55-60	407.3	7.9%	115-120	0	0.0%	175-180	0	0.0%

Zone	Lumens	% of Luminaire
0-40	2231	43.3%
0-60	3973	77.0%
0-90	5150	99.9%
90-180	7	0.1%



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	1775	1775	1775	1775	1775	1775	1775	1775	1775	1775	1775	1775	1775	1775	1775	1775
5	1755	1771	1764	1768	1770	1768	1764	1771	1755	1771	1764	1768	1770	1768	1764	1771
10	1722	1740	1738	1747	1752	1747	1738	1740	1722	1740	1738	1747	1752	1747	1738	1740
15	1670	1690	1696	1712	1719	1712	1696	1690	1670	1690	1696	1712	1719	1712	1696	1690
20	1597	1622	1637	1661	1672	1661	1637	1622	1597	1622	1637	1661	1672	1661	1637	1622
25	1508	1536	1560	1596	1613	1596	1560	1536	1508	1536	1560	1596	1613	1596	1560	1536
30	1404	1437	1473	1523	1544	1523	1473	1437	1404	1437	1473	1523	1544	1523	1473	1437
35	1292	1326	1376	1443	1469	1443	1376	1326	1292	1326	1376	1443	1469	1443	1376	1326
40	1171	1206	1274	1351	1383	1351	1274	1206	1171	1206	1274	1351	1383	1351	1274	1206
45	1045	1082	1165	1253	1289	1253	1165	1082	1045	1082	1165	1253	1289	1253	1165	1082
50	919	959	1052	1152	1193	1152	1052	959	919	959	1052	1152	1193	1152	1052	959
55	790	835	937	1047	1091	1047	937	835	790	835	937	1047	1091	1047	937	835
60	663	712	821	937	978	937	821	712	663	712	821	937	978	937	821	712
65	537	590	708	807	834	807	708	590	537	590	708	807	834	807	708	590
70	414	471	584	637	638	637	584	471	414	471	584	637	638	637	584	471
75	294	358	432	414	388	414	432	358	294	358	432	414	388	414	432	358
80	179	246	240	176	145	176	240	246	179	246	240	176	145	176	240	246
85	77	106	52	37	29	37	52	106	77	106	52	37	29	37	52	106
90	1	20	15	5	0	5	15	20	1	20	15	5	0	5	15	20
95	0	7	8	3	0	3	8	7	0	7	8	3	0	3	8	7
100	0	2	5	1	0	1	5	2	0	2	5	1	0	1	5	2
105	0	0	2	0	0	0	2	0	0	0	2	0	0	0	2	0
110	0	0	1	0	0	0	1	0	0	0	1	0	0	0	1	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/m²)
Horizontal Angle (Degrees)

	0	45	90
0	6986	6986	6986
45	5598	5546	5980
55	5134	5179	5826
65	4619	4840	5439
75	3905	4026	3375
85	2414	809	398



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	6138	6138	6138	6138	5994	5994	5994	5994	5726	5726	5726	5481	5481	5481	5256	5256	5256	5150
1	5595	5343	5118	4915	5453	5225	5020	4834	5004	4834	4679	4800	4662	4534	4613	4502	4398	4288
2	5073	4637	4276	3973	4935	4538	4206	3925	4353	4073	3832	4182	3948	3743	4023	3830	3658	3544
3	4614	4057	3627	3283	4483	3974	3575	3253	3818	3475	3193	3674	3382	3136	3540	3292	3081	2965
4	4217	3585	3122	2769	4096	3515	3083	2749	3384	3007	2709	3261	2935	2671	3148	2866	2634	2519
5	3873	3197	2725	2376	3763	3138	2694	2362	3027	2635	2335	2923	2579	2308	2826	2525	2282	2170
6	3574	2875	2406	2069	3473	2825	2381	2059	2730	2334	2039	2642	2289	2020	2559	2246	2001	1893
7	3312	2604	2145	1824	3221	2561	2126	1816	2480	2088	1802	2404	2051	1788	2333	2016	1774	1670
8	3082	2375	1930	1625	3000	2338	1914	1619	2269	1883	1608	2203	1853	1597	2142	1824	1587	1487
9	2879	2179	1750	1460	2804	2147	1737	1456	2087	1711	1448	2030	1686	1439	1977	1662	1431	1335
10	2699	2010	1598	1323	2632	1983	1587	1320	1930	1565	1313	1881	1544	1307	1834	1524	1300	1209

Cone of Light Tabulation

Mounting Height	Footcandles at Nadir	Diameter (Feet)
4.00	111	4.95
6.00	49.3	7.43
8.00	27.7	9.91
10.0	17.7	12.4
12.0	12.3	14.9
14.0	9.05	17.3
16.0	6.93	19.8

Cone of Light Plot

