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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
L501-4-5400-40K-CC-AIM-U55-UNI
Order Number
10891761
Test Number
1133383

Test Date

2015-07-26

Prepared By

Dane Hernandez-Adams, Technician

Approved By

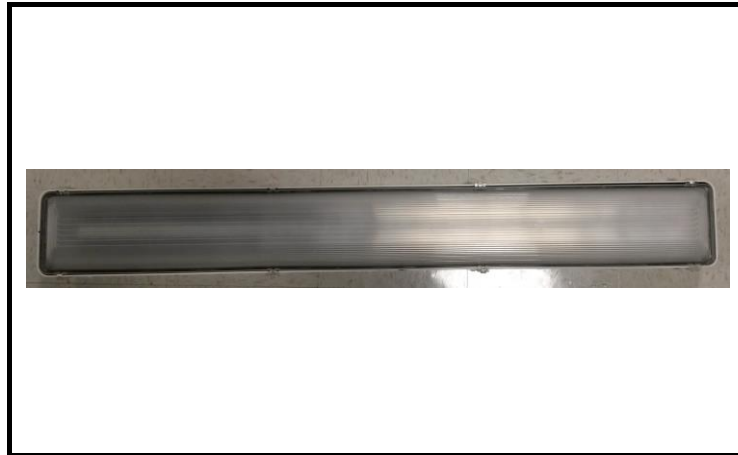
Kyle Spaziani, Project Handler

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: 5391 Lumens
Luminaire Efficacy: 101.4 lm/w
Maximum Candela: 2353 Candela

Electrical Data

Test Temperature: 25.8 °C
Voltage: 120.0 VAC
Current: 0.4441 A
Power: 53.19 W
Power Factor: 0.998
Frequency: 60 Hz
Current THD: 4.91 %

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
25.8 °C	120.0 VAC	0.4441 A	53.19 W	0.998	60 Hz	4.91 %

Summary of Results

Spacing Criteria

0-180: 1.29
90-270: 1.29

Total Lumen Output:

5391 Lumens

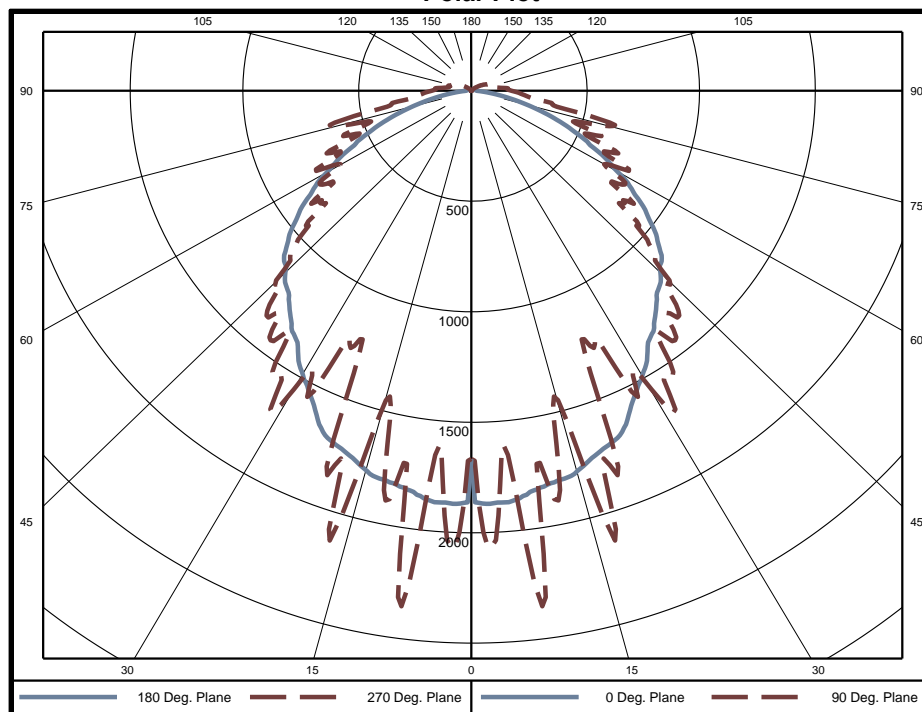
Luminaire Efficacy:

101.4 lm/w

Maximum Candela:

2353 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	46.2	0.9%	60-65	315.2	5.8%	120-125	8.2	0.2%
5-10	138.6	2.6%	65-70	263.4	4.9%	125-130	4.2	0.1%
10-15	209.6	3.9%	70-75	213.7	4.0%	130-135	1.8	0.0%
15-20	300.1	5.6%	75-80	190.1	3.5%	135-140	0.2	0.0%
20-25	349.2	6.5%	80-85	119.5	2.2%	140-145	0.0	0.0%
25-30	383.0	7.1%	85-90	75.8	1.4%	145-150	0.1	0.0%
30-35	409.0	7.6%	90-95	58.6	1.1%	150-155	0.1	0.0%
35-40	467.9	8.7%	95-100	47.1	0.9%	155-160	0.1	0.0%
40-45	485.4	9.0%	100-105	37.2	0.7%	160-165	0.0	0.0%
45-50	436.2	8.1%	105-110	28.9	0.5%	165-170	0.0	0.0%
50-55	403.2	7.5%	110-115	20.7	0.4%	170-175	0.0	0.0%
55-60	364.0	6.8%	115-120	13.9	0.3%	175-180	0.0	0.0%

Zone	Lumens	% of Luminaire
0-40	2304	42.7%
0-60	3992	74.1%
0-90	5170	95.9%
90-180	221	4.1%



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	1666	1666	1666	1666	1666	1666	1666	1666	1666	1666	1666	1666	1666	1666	1666	1666
5	1868	2089	1909	1638	1612	1638	1909	2089	1868	2089	1909	1638	1612	1638	1909	2089
10	1818	1819	2259	1761	1710	1761	2259	1819	1818	1819	2259	1761	1710	1761	2259	1819
15	1781	1717	1817	1467	1449	1467	1817	1717	1781	1717	1817	1467	1449	1467	1817	1717
20	1714	2162	1398	1762	1851	1762	1398	2162	1714	2162	1398	1762	1851	1762	1398	2162
25	1617	1593	1753	1219	1265	1219	1753	1593	1617	1593	1753	1219	1265	1219	1753	1593
30	1486	1518	1252	1460	1561	1460	1252	1518	1486	1518	1252	1460	1561	1460	1252	1518
35	1358	1207	1220	1505	1499	1505	1220	1207	1358	1207	1220	1505	1499	1505	1220	1207
40	1251	1580	1524	1376	1312	1376	1524	1580	1251	1580	1524	1376	1312	1376	1524	1580
45	1161	1175	1268	1211	1213	1211	1268	1175	1161	1175	1268	1211	1213	1211	1268	1175
50	1055	1018	1046	981	949	981	1046	1018	1055	1018	1046	981	949	981	1046	1018
55	911	901	880	783	777	783	880	901	911	901	880	783	777	783	880	901
60	734	808	609	730	664	730	609	808	734	808	609	730	664	730	609	808
65	562	538	537	638	654	638	537	538	562	538	537	638	654	638	537	538
70	412	380	482	487	600	487	482	380	412	380	482	487	600	487	482	380
75	261	262	370	489	618	489	370	262	261	262	370	489	618	489	370	262
80	136	182	409	331	356	331	409	182	136	182	409	331	356	331	409	182
85	57	159	157	232	233	232	157	159	57	159	157	232	233	232	157	159
90	23	66	126	174	175	174	126	66	23	66	126	174	175	174	126	66
95	22	57	119	139	146	139	119	57	22	57	119	139	146	139	119	57
100	20	45	98	97	99	97	98	45	20	45	98	97	99	97	98	45
105	15	30	78	91	94	91	78	30	15	30	78	91	94	91	78	30
110	10	13	55	75	83	75	55	13	10	13	55	75	83	75	55	13
115	6	4	37	60	69	60	37	4	6	4	37	60	69	60	37	4
120	3	2	19	43	50	43	19	2	3	2	19	43	50	43	19	2
125	1	0	9	27	34	27	9	0	1	0	9	27	34	27	9	0
130	0	0	0	16	21	16	0	0	0	0	0	16	21	16	0	0
135	0	0	0	2	10	2	0	0	0	0	0	2	10	2	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	7715	7715	7715
45	7321	6671	6074
55	6969	5261	4358
65	5680	3856	4319
75	4071	3462	5148
85	2087	2190	2741



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	6366	6366	6366	6366	6192	6192	6192	6192	5867	5867	5867	5571	5571	5571	5298	5298	5298	5170
1	5775	5502	5257	5037	5603	5357	5135	4933	5085	4903	4736	4836	4688	4552	4606	4488	4378	4248
2	5247	4789	4410	4092	5082	4667	4320	4026	4439	4149	3898	4228	3987	3776	4033	3836	3659	3529
3	4784	4207	3760	3404	4630	4104	3692	3359	3911	3560	3271	3733	3436	3186	3567	3317	3104	2975
4	4383	3731	3254	2889	4241	3645	3200	2857	3481	3097	2793	3329	2999	2732	3187	2905	2672	2546
5	4034	3338	2852	2493	3905	3264	2809	2468	3125	2726	2421	2995	2647	2374	2873	2571	2329	2208
6	3728	3009	2526	2180	3610	2946	2491	2161	2826	2424	2124	2714	2359	2088	2610	2297	2053	1937
7	3459	2731	2259	1928	3352	2677	2230	1913	2573	2174	1884	2477	2121	1855	2386	2069	1827	1716
8	3222	2494	2037	1722	3125	2447	2013	1710	2358	1966	1686	2274	1921	1663	2194	1877	1640	1534
9	3012	2291	1850	1551	2924	2250	1829	1542	2172	1790	1522	2098	1751	1502	2029	1714	1483	1383
10	2825	2115	1691	1408	2745	2080	1673	1400	2011	1640	1383	1946	1607	1367	1885	1575	1351	1255

Cone of Light Tabulation

Mounting Height	Footcandles at Nadir	Diameter (Feet)
4.00	104	5.17
6.00	46.3	7.75
8.00	26.0	10.3
10.0	16.7	12.9
12.0	11.6	15.5
14.0	8.50	18.1
16.0	6.51	20.7

Cone of Light Plot

