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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
LW3-4-4500-35K-HTA-1%-UNI-SR
Order Number
10910728
Test Number
1142142

Test Date

2015-08-14

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: White steel housing / reflector, frosted plastic lens enclosure
Lamp: 112 white LEDs
Mounting: Recessed
Ballast/Driver: One Universal Everline D10CC55UNVTZ-C (@1050mA)

Luminaire



Luminaire Characteristics

Luminous Length: 45.00 in.
Luminous Width: 3.000 in.

Summary of Results

Total Luminaire Output: 4577 Lumens
Luminaire Efficacy: 91.4 lm/w
Maximum Candela: 1690 Candela

Electrical Data

Test Temperature: 25.6 °C
Voltage: 120.0 VAC
Current: 0.4177 A
Power: 50.07 W
Power Factor: 0.998
Frequency: 60 Hz
Current THD: 4.87 %

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
25.6 °C	120.0 VAC	0.4177 A	50.07 W	0.998	60 Hz	4.87 %

Summary of Results

Spacing Criteria

0-180: 1.19

90-270: 1.19

Total Lumen Output:

4577 Lumens

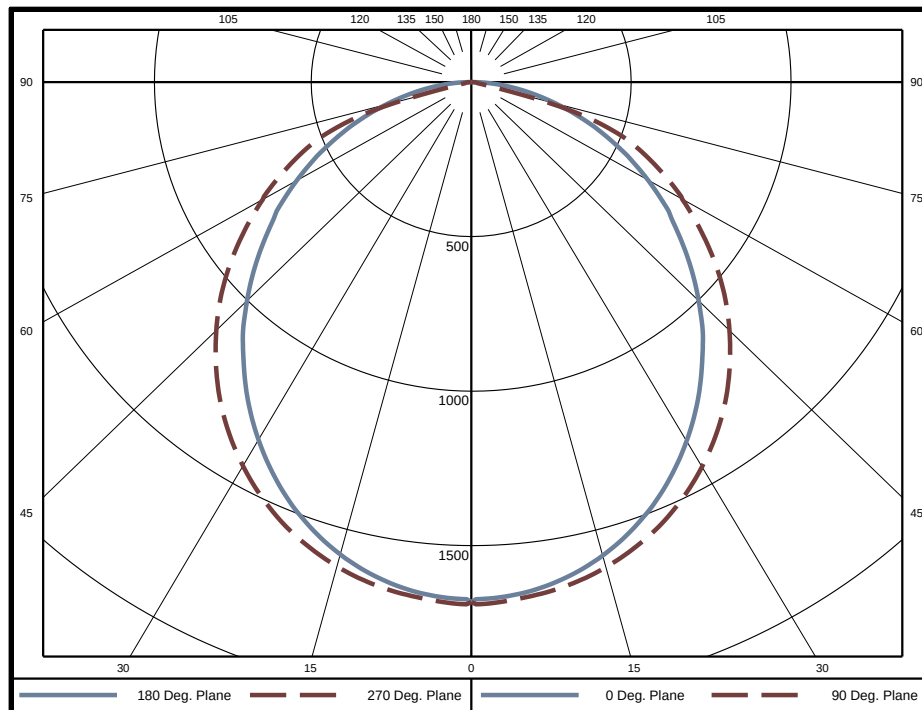
Luminaire Efficacy:

91.4 lm/w

Maximum Candela:

1690 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	40.1	0.9%	60-65	310.9	6.8%	120-125	0	0.0%
5-10	118.7	2.6%	65-70	258.9	5.7%	125-130	0	0.0%
10-15	192.7	4.2%	70-75	194.2	4.2%	130-135	0	0.0%
15-20	259.4	5.7%	75-80	99.6	2.2%	135-140	0	0.0%
20-25	316.6	6.9%	80-85	36.2	0.8%	140-145	0	0.0%
25-30	362.3	7.9%	85-90	9.1	0.2%	145-150	0	0.0%
30-35	395.1	8.6%	90-95	0	0.0%	150-155	0	0.0%
35-40	413.9	9.0%	95-100	0	0.0%	155-160	0	0.0%
40-45	418.9	9.2%	100-105	0	0.0%	160-165	0	0.0%
45-50	409.6	8.9%	105-110	0	0.0%	165-170	0	0.0%
50-55	387.1	8.5%	110-115	0	0.0%	170-175	0	0.0%
55-60	353.9	7.7%	115-120	0	0.0%	175-180	0	0.0%

Zone	Lumens	% of Luminaire
0-40	2099	45.9%
0-60	3668	80.1%
0-90	4577	100.0%
90-180	0	0.0%



Candela Tabulation
Horizontal Angle (Degrees)

Vertical 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	1683	1683	1683	1683	1683	1683	1683	1683	1683	1683	1683	1683	1683	1683	1683
	5	1663	1671	1673	1673	1679	1673	1673	1671	1663	1671	1673	1673	1679	1673	1671
	10	1634	1641	1644	1649	1659	1649	1644	1641	1634	1641	1644	1649	1659	1649	1641
	15	1587	1593	1601	1610	1625	1610	1601	1593	1587	1593	1601	1610	1625	1610	1593
	20	1521	1529	1545	1558	1577	1558	1545	1529	1521	1529	1545	1558	1577	1558	1529
	25	1441	1449	1473	1494	1514	1494	1473	1449	1441	1449	1473	1494	1514	1494	1449
	30	1346	1357	1391	1418	1438	1418	1391	1357	1346	1357	1391	1418	1438	1418	1357
	35	1241	1253	1297	1330	1350	1330	1297	1253	1241	1253	1297	1330	1350	1330	1253
	40	1128	1141	1192	1229	1249	1229	1192	1141	1128	1141	1192	1229	1249	1229	1141
	45	1008	1027	1080	1119	1138	1119	1080	1027	1008	1027	1080	1119	1138	1119	1027
	50	885	901	959	1001	1019	1001	959	901	885	901	959	1001	1019	1001	901
	55	764	777	832	874	891	874	832	777	764	777	832	874	891	874	777
	60	642	658	708	748	760	748	708	658	642	658	708	748	760	748	658
	65	518	532	579	617	631	617	579	532	518	532	579	617	631	617	532
	70	397	410	452	484	486	484	452	410	397	410	452	484	486	484	410
	75	280	294	329	277	206	277	329	294	280	294	329	277	206	277	294
	80	175	189	113	29	20	29	113	189	175	189	113	29	20	29	113
	85	82	53	21	17	14	17	21	53	82	53	21	17	14	17	21
	90	6	6	5	3	1	3	5	6	6	5	3	1	3	5	6
	95	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
	105	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
	115	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
	125	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
	135	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
	145	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
	155	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
	165	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
	175	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

Average Luminance (cd/m²)
Horizontal Angle (Degrees)

Vertical Angle (Degrees)	0	45	90
	0	19320	19320
	45	16370	18480
	55	15290	17830
	65	14080	17130
	75	12420	9125
	85	10860	1840



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	5449	5449	5449	5449	5322	5322	5322	5322	5086	5086	5086	4869	4869	4869	4671	4671	4671	4577
1	4996	4785	4595	4425	4872	4681	4509	4352	4487	4345	4215	4308	4193	4086	4144	4051	3965	3870
2	4547	4176	3869	3611	4427	4090	3808	3568	3928	3690	3485	3778	3580	3406	3640	3476	3330	3232
3	4146	3669	3300	3006	4033	3597	3254	2978	3460	3167	2925	3334	3084	2874	3217	3006	2825	2725
4	3796	3251	2853	2548	3691	3191	2818	2530	3076	2752	2495	2969	2688	2461	2870	2628	2427	2328
5	3491	2906	2497	2195	3395	2854	2470	2182	2757	2418	2158	2667	2369	2135	2582	2321	2111	2014
6	3224	2617	2209	1916	3137	2573	2188	1908	2491	2147	1890	2413	2107	1874	2341	2069	1857	1763
7	2990	2373	1973	1693	2910	2336	1956	1687	2265	1923	1674	2199	1891	1662	2137	1860	1649	1559
8	2784	2166	1778	1511	2712	2134	1764	1506	2073	1737	1497	2016	1711	1487	1963	1685	1478	1391
9	2601	1988	1613	1360	2536	1961	1602	1356	1909	1580	1349	1859	1558	1342	1812	1537	1335	1251
10	2439	1835	1474	1234	2380	1811	1464	1231	1766	1446	1225	1723	1428	1219	1682	1410	1214	1134

Cone of Light Tabulation

Mounting Height	Footcandles at Nadir	Diameter (Feet)
4.00	105	4.92
6.00	46.7	7.38
8.00	26.3	9.83
10.0	16.8	12.3
12.0	11.7	14.8
14.0	8.58	17.2
16.0	6.57	19.7

Cone of Light Plot

