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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
Fiarfield, NJ 07004-3416
United States

Catalog Number
LW25W-4-3700-35K-U55-UNI-VP-XXXX

Order Number
10997920
Test Number
1169364

Test Date

2015-10-15

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 enamel steel housing with frosted lens
Lamp: 112 White LEDs, two boards 56 LEDs each
Mounting: Ceiling
Ballast/Driver: One Everline LED Power Supply D10CC55UNVTZ-C

Luminaire



Luminaire Characteristics

Luminous Length: 48.00 in.
Luminous Width: 7.500 in.
Luminous Height: 0.50 in.

Summary of Results

Total Luminaire Output: 3694 Lumens
Luminaire Efficacy: 69.8 lm/w
Maximum Candela: 1204 Candela

Electrical Data

Test Temperature: 24.5 °C
Voltage: 120.0 VAC
Current: 0.4420 A
Power: 52.95 W
Power Factor: 0.998
Frequency: 60 Hz
Current THD: 4.78 %

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
24.5 °C	120.0 VAC	0.4420 A	52.95 W	0.998	60 Hz	4.78 %

Summary of Results

Spacing Criteria

0-180: 1.25
90-270: 1.25

Total Lumen Output:

3694 Lumens

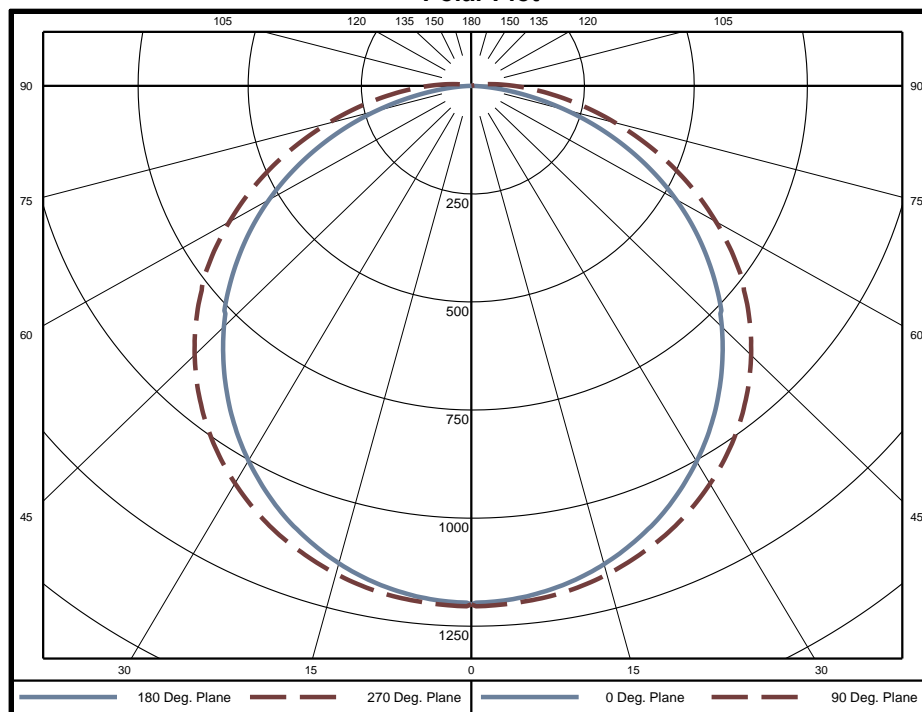
Luminaire Efficacy:

69.8 lm/w

Maximum Candela:

1204 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	28.6	0.8%	60-65	255.7	6.9%	120-125	0	0.0%
5-10	85.0	2.3%	65-70	216.1	5.9%	125-130	0	0.0%
10-15	138.6	3.8%	70-75	170.2	4.6%	130-135	0	0.0%
15-20	187.9	5.1%	75-80	122.1	3.3%	135-140	0	0.0%
20-25	231.4	6.3%	80-85	77.1	2.1%	140-145	0	0.0%
25-30	267.4	7.2%	85-90	40.7	1.1%	145-150	0	0.0%
30-35	295.1	8.0%	90-95	17.9	0.5%	150-155	0	0.0%
35-40	313.5	8.5%	95-100	6.2	0.2%	155-160	0	0.0%
40-45	322.0	8.7%	100-105	1.0	0.0%	160-165	0	0.0%
45-50	320.7	8.7%	105-110	0.0	0.0%	165-170	0	0.0%
50-55	309.8	8.4%	110-115	0	0.0%	170-175	0	0.0%
55-60	287.5	7.8%	115-120	0	0.0%	175-180	0	0.0%

Zone	Lumens	% of Luminaire
0-40	1548	41.9%
0-60	2788	75.5%
0-90	3669	99.3%
90-180	25	0.7%



Candela Tabulation
Horizontal Angle (Degrees)

Vertical Angle (Degrees)	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	1199	1199	1199	1199	1199	1199	1199	1199	1199	1199	1199	1199	1199	1199	1199
	5	1190	1194	1194	1196	1200	1196	1194	1194	1190	1194	1194	1196	1200	1196	1194
	10	1173	1177	1180	1184	1189	1184	1180	1177	1173	1177	1180	1184	1189	1184	1180
	15	1145	1150	1156	1163	1169	1163	1156	1150	1145	1150	1156	1163	1169	1163	1156
	20	1107	1114	1123	1134	1141	1134	1123	1114	1107	1114	1123	1134	1141	1134	1123
	25	1060	1067	1081	1096	1106	1096	1081	1067	1060	1067	1081	1096	1106	1096	1081
	30	1004	1012	1031	1050	1062	1050	1031	1012	1004	1012	1031	1050	1062	1050	1031
	35	940	948	973	996	1010	996	973	948	940	948	973	996	1010	996	973
	40	868	878	907	932	948	932	907	878	868	878	907	932	948	932	907
	45	790	801	833	862	879	862	833	801	790	801	833	862	879	862	833
	50	711	723	757	784	802	784	757	723	711	723	757	784	802	784	757
	55	622	634	668	702	720	702	668	634	622	634	668	702	720	702	668
	60	528	540	574	609	627	609	574	540	528	540	574	609	627	609	574
	65	428	442	476	513	531	513	476	442	428	442	476	513	531	513	476
	70	325	339	375	414	431	414	375	339	325	339	375	414	431	414	375
75	221	236	275	315	332	315	275	236	221	236	275	315	332	315	275	
80	123	141	182	225	242	225	182	141	123	141	182	225	242	225	182	
85	43	63	107	146	161	146	107	63	43	63	107	146	161	146	107	
90	0	17	50	82	95	82	50	17	0	17	50	82	95	82	50	
95	0	0	16	38	46	38	16	0	0	0	16	38	46	38	16	
100	0	0	1	11	16	11	1	0	0	0	1	11	16	11	1	
105	0	0	0	0	1	0	0	0	0	0	0	0	1	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)	Horizontal Angle (Degrees)			
	0	45	90	
	0	5164	5164	5164
	45	4761	4811	5018
	55	4600	4654	4933
	65	4263	4338	4729
75	3538	3807	4426	
85	1899	3243	4522	



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	4392	4392	4392	4392	4287	4287	4287	4287	4091	4091	4091	3912	3912	3912	3747	3747	3747	3669
1	3982	3793	3623	3470	3877	3705	3551	3411	3542	3415	3298	3392	3288	3192	3254	3170	3092	3011
2	3607	3286	3021	2798	3505	3213	2969	2762	3076	2871	2693	2950	2778	2627	2833	2691	2564	2480
3	3279	2873	2559	2309	3183	2812	2521	2286	2697	2447	2241	2590	2377	2198	2491	2311	2157	2072
4	2996	2537	2202	1945	2907	2486	2172	1930	2388	2116	1900	2298	2062	1870	2214	2010	1842	1758
5	2751	2262	1920	1667	2670	2218	1897	1656	2136	1852	1635	2059	1810	1614	1987	1769	1594	1513
6	2538	2032	1693	1450	2464	1995	1675	1442	1925	1639	1426	1859	1605	1411	1798	1573	1396	1318
7	2351	1840	1508	1276	2284	1808	1494	1270	1748	1465	1259	1692	1437	1247	1639	1410	1236	1161
8	2187	1677	1356	1135	2126	1649	1344	1131	1598	1320	1122	1549	1297	1113	1503	1275	1104	1032
9	2042	1537	1228	1019	1987	1514	1218	1016	1469	1198	1009	1427	1179	1002	1387	1161	995	926
10	1913	1417	1120	922	1864	1397	1112	919	1358	1095	914	1321	1079	908	1286	1063	903	837

Cone of Light Tabulation

Mounting Height	Footcandles at Nadir	Diameter (Feet)
4.00	75.0	5.11
6.00	33.3	7.67
8.00	18.7	10.2
10.0	12.0	12.8
12.0	8.33	15.3
14.0	6.12	17.9
16.0	4.69	20.4

Cone of Light Plot

