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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
LW25W-4-4500-35K-HTA-U55-UNI-XXXX

Order Number
10730566
Test Number
997074

Test Date

2015-03-27

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 D10C55UNVTZ-C

Luminaire



Luminaire Characteristics

Luminous Length: 48.00 in.
Luminous Width: 9.500 in.
Luminous Height: 1.50 in.

Summary of Results

Total Luminaire Output: 4468 Lumens
Luminaire Efficacy: 97.6 lm/w
Maximum Candela: 1429 Candela

Electrical Data

Test Temperature: 24.7 °C
Voltage: 120.0 VAC
Current: 0.3819 A
Power: 45.75 W
Power Factor: 0.998
Frequency: 60 Hz
Current THD: 4.79 %

Laboratory results may not be representative of field performance
Ballast factors have not been applied



Distribution - Goniophotometer

Distribution Test Conditions

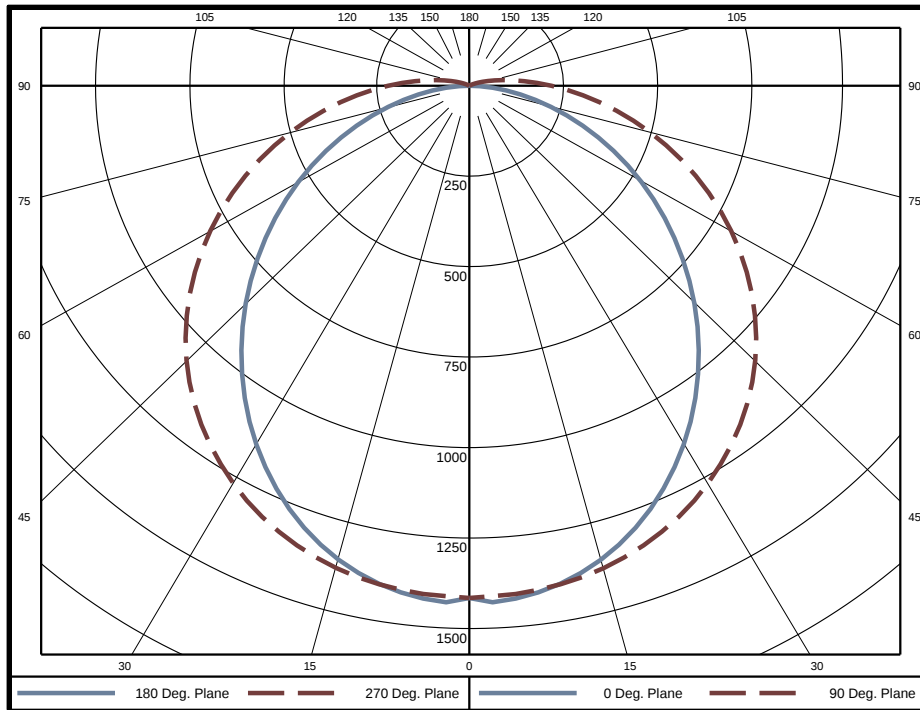
Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.7 °C	120.0 VAC	0.3819 A	45.75 W	0.998	60 Hz	4.79 %

Summary of Results

Spacing Criteria
 0-180: 1.20
 90-270: 1.33

Total Lumen Output: 4468 Lumens
Luminaire Efficacy: 97.6 lm/w
Maximum Candela: 1429 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	35.9	0.8%	60-65	297.1	6.6%	120-125	0.2	0.0%
5-10	100.2	2.2%	65-70	257.0	5.8%	125-130	0.0	0.0%
10-15	163.3	3.7%	70-75	212.4	4.8%	130-135	0.0	0.0%
15-20	220.9	4.9%	75-80	165.7	3.7%	135-140	0.0	0.0%
20-25	271.2	6.1%	80-85	120.3	2.7%	140-145	0.0	0.0%
25-30	312.3	7.0%	85-90	79.2	1.8%	145-150	0.0	0.0%
30-35	343.2	7.7%	90-95	47.9	1.1%	150-155	0.0	0.0%
35-40	363.2	8.1%	95-100	27.5	0.6%	155-160	0.0	0.0%
40-45	371.7	8.3%	100-105	14.5	0.3%	160-165	0.0	0.0%
45-50	368.6	8.2%	105-110	7.0	0.2%	165-170	0.0	0.0%
50-55	354.4	7.9%	110-115	2.9	0.1%	170-175	0.0	0.0%
55-60	330.1	7.4%	115-120	1.0	0.0%	175-180	0.0	0.0%

Zone	Lumens	% of Luminaire
0-40	1810.0	40.5%
0-60	3234.8	72.4%
0-90	4366.5	97.7%
90-180	101.0	2.3%



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	1416	1416	1416	1416	1416	1416	1416	1416	1416	1416	1416	1416	1416	1416	1416
	5	1423	1408	1404	1412	1410	1412	1404	1408	1423	1408	1404	1412	1410	1412	1408
	10	1398	1385	1386	1399	1399	1399	1386	1385	1398	1385	1386	1399	1399	1399	1386
	15	1357	1347	1357	1377	1380	1377	1357	1347	1357	1347	1357	1377	1380	1377	1357
	20	1300	1295	1316	1345	1352	1345	1316	1295	1300	1295	1316	1345	1352	1345	1316
	25	1228	1230	1263	1303	1314	1303	1263	1230	1228	1230	1263	1303	1314	1303	1263
	30	1146	1154	1200	1251	1267	1251	1200	1154	1146	1154	1200	1251	1267	1251	1200
	35	1054	1068	1128	1191	1211	1191	1128	1068	1054	1068	1128	1191	1211	1191	1128
	40	954	975	1048	1121	1147	1121	1048	975	954	975	1048	1121	1147	1121	1048
	45	851	876	960	1043	1072	1043	960	876	851	876	960	1043	1072	1043	960
	50	745	773	865	956	989	956	865	773	745	773	865	956	989	956	865
	55	638	668	765	863	898	863	765	668	638	668	765	863	898	863	765
	60	531	563	662	763	802	763	662	563	531	563	662	763	802	763	662
	65	425	458	557	661	701	661	557	458	425	458	557	661	701	661	557
	70	323	356	453	557	599	557	453	356	323	356	453	557	599	557	453
	75	226	259	353	455	496	455	353	259	226	259	353	455	496	455	353
	80	139	170	260	357	396	357	260	170	139	170	260	357	396	357	260
	85	63	95	178	266	303	266	178	95	63	95	178	266	303	266	178
	90	0	40	110	186	218	186	110	40	0	40	110	186	218	186	110
	95	0	12	60	120	146	120	60	12	0	12	60	120	146	120	60
	100	0	2	29	70	91	70	29	2	0	2	29	70	91	70	29
	105	0	0	12	38	51	38	12	0	0	12	38	51	38	12	0
	110	0	0	4	18	26	18	4	0	0	4	18	26	18	4	0
	115	0	0	1	7	11	7	1	0	0	1	7	11	7	1	0
	120	0	0	0	2	4	2	0	0	0	0	2	4	2	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	4812	4812
	45	3968	4452
	55	3618	4343
	65	3207	4212
	75	2661	4101
	85	1803	4211



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	5296	5296	5296	5296	5162	5162	5162	5162	4910	4910	4910	4680	4680	4680	4469	4469	4469	4370
1	4776	4537	4322	4129	4640	4424	4228	4051	4213	4052	3904	4019	3888	3766	3840	3735	3636	3532
2	4321	3923	3594	3317	4190	3828	3526	3269	3651	3397	3177	3487	3275	3089	3335	3160	3004	2898
3	3926	3428	3042	2734	3803	3348	2991	2702	3198	2892	2641	3059	2799	2581	2931	2711	2523	2417
4	3588	3027	2616	2303	3474	2960	2577	2281	2833	2501	2237	2715	2428	2195	2605	2359	2154	2050
5	3295	2698	2282	1974	3191	2642	2250	1958	2534	2190	1927	2433	2132	1896	2340	2077	1866	1765
6	3040	2426	2013	1717	2946	2377	1988	1705	2285	1939	1681	2199	1892	1658	2118	1847	1635	1538
7	2817	2196	1794	1512	2731	2155	1774	1503	2076	1734	1485	2002	1695	1466	1932	1658	1448	1356
8	2621	2002	1613	1346	2544	1966	1596	1339	1898	1563	1324	1834	1531	1309	1774	1500	1295	1206
9	2448	1836	1462	1209	2378	1805	1447	1203	1746	1419	1191	1690	1392	1179	1637	1366	1167	1083
10	2294	1693	1333	1094	2231	1666	1321	1089	1614	1298	1079	1565	1275	1069	1519	1252	1060	979

Cone of Light Tabulation

Mounting Height	Footcandles at Nadir	Diameter (Feet)
4.00	88.5	5.05
6.00	39.3	7.58
8.00	22.1	10.1
10.0	14.2	12.6
12.0	9.83	15.2
14.0	7.22	17.7
16.0	5.53	20.2

Cone of Light Plot

