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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
LW26-4-4500-30K-HTA-U55-UNI-XXXX

Order Number
10798566
Test Number
1078105

Test Date

2015-05-26

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 / Ceiling
Ballast/Driver: One Everline D10CC55UNVTZ-C

Luminaire



Luminaire Characteristics

Luminous Length: 48.00 in.
Luminous Width: 9.000 in.
Luminous Height: 1.25 in.

Summary of Results

Total Luminaire Output: 4458 Lumens
Luminaire Efficacy: 98.4 lm/w
Maximum Candela: 1560 Candela

Electrical Data

Test Temperature: 25.7 °C
Voltage: 120.0 VAC
Current: 0.3785 A
Power: 45.32 W
Power Factor: 0.997
Frequency: 60 Hz
Current THD: 5.53 %

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
25.7 °C	120.0 VAC	0.3785 A	45.32 W	0.997	60 Hz	5.53 %

Summary of Results

Spacing Criteria

0-180: 1.20

90-270: 1.20

Total Lumen Output:

4458 Lumens

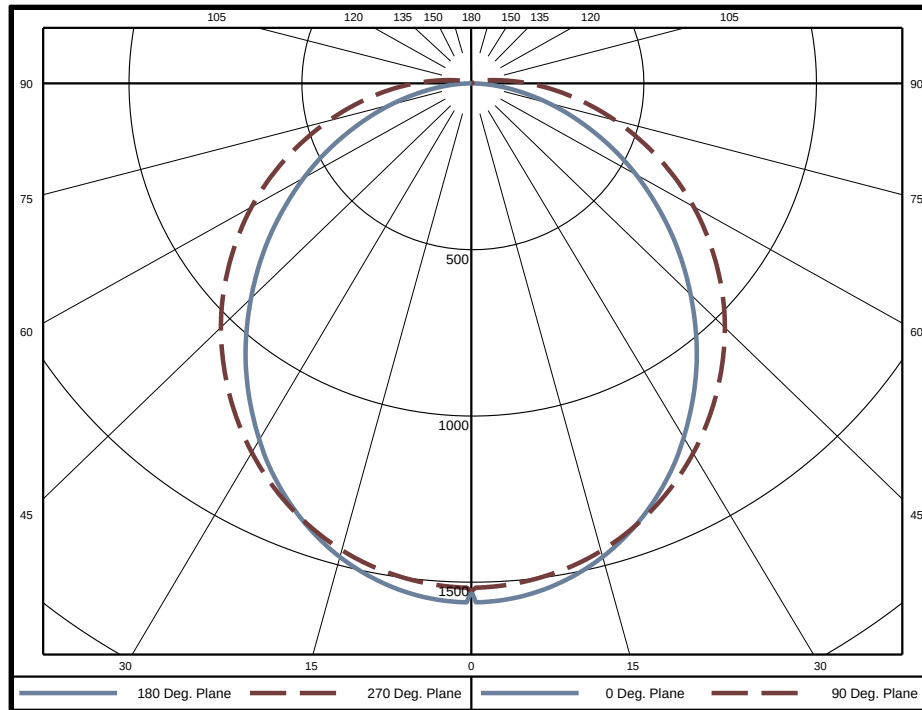
Luminaire Efficacy:

98.4 lm/w

Maximum Candela:

1560 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	36.4	0.8%	60-65	289.7	6.5%	120-125	0	0.0%
5-10	107.8	2.4%	65-70	247.5	5.6%	125-130	0	0.0%
10-15	174.9	3.9%	70-75	201.4	4.5%	130-135	0	0.0%
15-20	235.2	5.3%	75-80	153.7	3.4%	135-140	0	0.0%
20-25	286.6	6.4%	80-85	107.0	2.4%	140-145	0	0.0%
25-30	327.2	7.3%	85-90	64.9	1.5%	145-150	0	0.0%
30-35	356.2	8.0%	90-95	35.0	0.8%	150-155	0	0.0%
35-40	372.9	8.4%	95-100	18.4	0.4%	155-160	0	0.0%
40-45	377.4	8.5%	100-105	9.7	0.2%	160-165	0	0.0%
45-50	370.3	8.3%	105-110	5.5	0.1%	165-170	0	0.0%
50-55	352.3	7.9%	110-115	2.4	0.1%	170-175	0	0.0%
55-60	325.1	7.3%	115-120	0.5	0.0%	175-180	0	0.0%

Zone	Lumens	% of Luminaire
0-40	1897	42.6%
0-60	2995	74.5%
0-90	4387	98.4%
90-180	72	1.6%



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	1527	1527	1527	1527	1527	1527	1527	1527	1527	1527	1527	1527	1527	1527	1527
	5	1551	1524	1509	1510	1508	1510	1509	1524	1551	1524	1509	1510	1508	1510	1509
	10	1522	1496	1485	1488	1488	1488	1485	1496	1522	1496	1485	1488	1488	1488	1485
	15	1475	1452	1446	1454	1455	1454	1446	1452	1475	1452	1446	1454	1455	1454	1446
	20	1410	1392	1393	1406	1409	1406	1393	1392	1410	1392	1393	1406	1409	1406	1393
	25	1329	1317	1327	1346	1352	1346	1327	1317	1329	1317	1327	1346	1352	1346	1327
	30	1235	1229	1250	1276	1285	1276	1250	1229	1235	1229	1250	1276	1285	1276	1250
	35	1131	1132	1163	1197	1210	1197	1163	1132	1131	1132	1163	1197	1210	1197	1163
	40	1021	1027	1068	1111	1127	1111	1068	1027	1021	1027	1068	1111	1127	1111	1068
	45	905	917	967	1020	1039	1020	967	917	905	917	967	1020	1039	1020	967
	50	789	805	862	923	945	923	862	805	789	805	862	923	945	923	862
	55	672	693	755	821	847	821	755	693	672	693	755	821	847	821	755
	60	558	582	648	719	745	719	648	582	558	582	648	719	745	719	648
	65	446	473	540	613	641	613	540	473	446	473	540	613	641	613	540
	70	337	367	435	508	536	508	435	367	337	367	435	508	536	508	435
	75	237	268	335	405	433	405	335	268	237	268	335	405	433	405	335
	80	144	176	239	307	336	307	239	176	144	176	239	307	336	307	239
	85	64	94	154	219	246	219	154	94	64	94	154	219	246	219	154
	90	0	32	86	142	166	142	86	32	0	32	86	142	166	142	86
	95	0	10	42	81	100	81	42	10	0	10	42	81	100	81	42
	100	0	3	21	45	57	45	21	3	0	3	21	45	57	45	21
	105	0	0	12	27	33	27	12	0	0	0	12	27	33	27	12
	110	0	0	3	16	21	16	3	0	0	0	3	16	21	16	3
	115	0	0	0	6	10	6	0	0	0	0	6	10	6	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	5477	5477
	45	4475	4396
	55	4052	4050
	65	3586	3670
	75	2995	3232
	85	2028	2721



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	5290	5290	5290	5290	5159	5159	5159	5159	4914	4914	4914	4689	4689	4689	4483	4483	4483	4386
1	4788	4557	4350	4163	4657	4448	4259	4088	4243	4087	3945	4055	3928	3810	3881	3779	3684	3583
2	4341	3954	3634	3364	4215	3862	3568	3318	3691	3443	3229	3532	3325	3144	3385	3215	3062	2959
3	3952	3464	3086	2785	3833	3387	3037	2755	3242	2943	2696	3108	2853	2639	2984	2769	2585	2481
4	3616	3065	2663	2355	3506	3001	2625	2334	2878	2552	2293	2765	2482	2254	2659	2416	2215	2114
5	3324	2738	2328	2025	3224	2683	2298	2011	2579	2241	1981	2482	2186	1953	2392	2133	1925	1826
6	3070	2465	2058	1767	2978	2418	2035	1756	2329	1988	1734	2247	1944	1713	2169	1901	1692	1597
7	2847	2235	1838	1560	2764	2195	1819	1552	2119	1781	1535	2048	1744	1518	1981	1709	1502	1411
8	2650	2040	1655	1392	2575	2005	1639	1385	1940	1608	1372	1878	1578	1359	1820	1549	1346	1259
9	2477	1872	1502	1252	2409	1843	1489	1247	1786	1463	1236	1732	1437	1226	1682	1413	1215	1132
10	2323	1728	1372	1136	2261	1702	1361	1131	1653	1339	1122	1606	1317	1114	1562	1297	1105	1026

Cone of Light Tabulation

Mounting Height	Footcandles at Nadir	Diameter (Feet)
4.00	95.4	4.89
6.00	42.4	7.34
8.00	23.9	9.78
10.0	15.3	12.2
12.0	10.6	14.7
14.0	7.79	17.1
16.0	5.96	19.6

Cone of Light Plot

