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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
LR31-14-5100-35K-HTA-U55-UNI-XXXX
Order Number
10921177
Test Number
1147378

Test Date

2015-08-21

Prepared By

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Approved By

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The results contained in this report pertain only to the tested sample.
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Luminaire Description: White steel housing, steel reflector, frosted plastic lens enclosure
Lamp: 72 white LEDs
Mounting: Recessed
Ballast/Driver: One Universal Everline D10CC30UNVTZ-C (.789 mA)

Luminaire



Luminaire Characteristics

Luminous Length: 46.00 in.
Luminous Width: 10.00 in.

Summary of Results

Total Luminaire Output: 4642 Lumens
Luminaire Efficacy: 88.2 lm/w
Maximum Candela: 1760 Candela

Electrical Data

Test Temperature: 24.8 °C
Voltage: 120.0 VAC
Current: 0.4392 A
Power: 52.65 W
Power Factor: 0.998
Frequency: 60 Hz
Current THD: 4.76 %

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
24.8 °C	120.0 VAC	0.4392 A	52.65 W	0.998	60 Hz	4.76 %

Summary of Results

Spacing Criteria

0-180: 1.20

90-270: 1.20

Total Lumen Output:

4642 Lumens

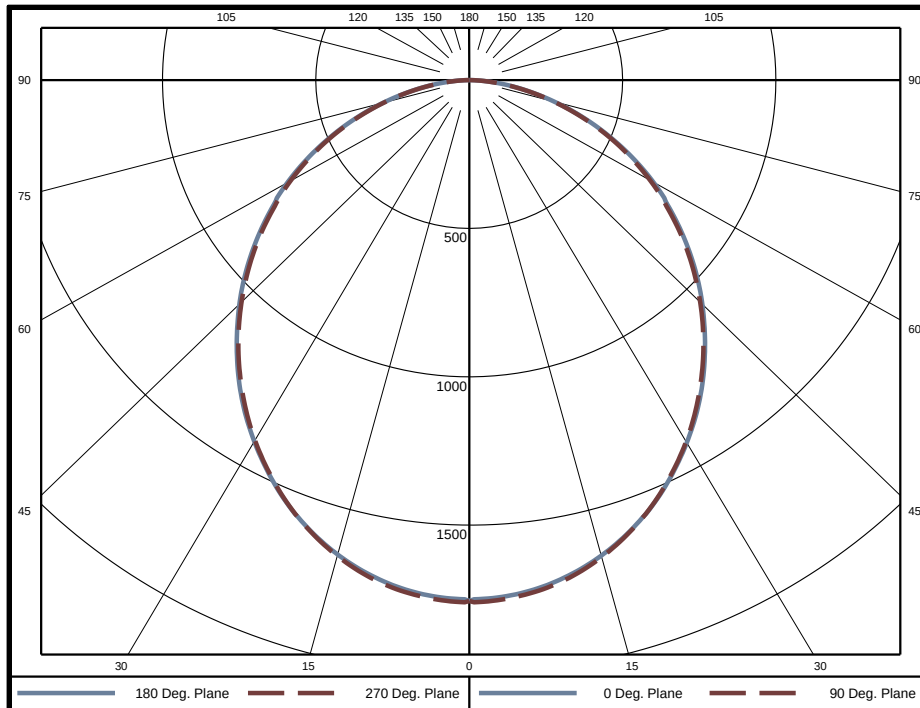
Luminaire Efficacy:

88.2 lm/w

Maximum Candela:

1760 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	41.8	0.9%	60-65	302.2	6.5%	120-125	0	0.0%
5-10	123.7	2.7%	65-70	247.0	5.3%	125-130	0	0.0%
10-15	200.3	4.3%	70-75	186.0	4.0%	130-135	0	0.0%
15-20	268.4	5.8%	75-80	123.5	2.7%	135-140	0	0.0%
20-25	325.5	7.0%	80-85	65.5	1.4%	140-145	0	0.0%
25-30	369.6	8.0%	85-90	17.8	0.4%	145-150	0	0.0%
30-35	400.1	8.6%	90-95	0	0.0%	150-155	0	0.0%
35-40	416.1	9.0%	95-100	0	0.0%	155-160	0	0.0%
40-45	418.1	9.0%	100-105	0	0.0%	160-165	0	0.0%
45-50	406.6	8.8%	105-110	0	0.0%	165-170	0	0.0%
50-55	382.2	8.2%	110-115	0	0.0%	170-175	0	0.0%
55-60	347.4	7.5%	115-120	0	0.0%	175-180	0	0.0%

Zone	Lumens	% of Luminaire
0-40	2146	46.2%
0-60	3700	79.7%
0-90	4642	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	1755	1755	1755	1755	1755	1755	1755	1755	1755	1755	1755	1755	1755	1755	1755
	5	1739	1743	1745	1747	1748	1747	1745	1743	1739	1743	1745	1747	1748	1747	1745
	10	1709	1712	1713	1716	1717	1716	1713	1712	1709	1712	1713	1716	1717	1716	1713
	15	1659	1662	1663	1664	1664	1664	1663	1662	1659	1662	1663	1664	1664	1664	1663
	20	1593	1594	1594	1594	1594	1594	1594	1593	1594	1594	1594	1594	1594	1594	1594
	25	1511	1510	1510	1509	1508	1509	1510	1510	1511	1510	1510	1509	1508	1509	1510
	30	1415	1414	1412	1410	1410	1410	1412	1414	1415	1414	1412	1410	1410	1410	1412
	35	1310	1307	1305	1302	1302	1302	1305	1307	1310	1307	1305	1302	1302	1302	1305
	40	1195	1193	1190	1185	1186	1185	1190	1193	1195	1193	1190	1185	1186	1185	1190
	45	1075	1072	1070	1065	1065	1065	1070	1072	1075	1072	1070	1065	1065	1065	1070
	50	951	947	944	939	940	939	944	947	951	947	944	939	940	939	944
	55	822	819	814	810	810	810	814	819	822	819	814	810	810	810	814
	60	696	693	688	684	684	684	688	693	696	693	688	684	684	688	693
	65	561	559	554	551	552	551	554	559	561	559	554	551	552	551	554
	70	425	424	421	418	419	418	421	424	425	424	421	418	419	418	421
	75	294	294	292	290	290	290	292	294	294	294	292	290	290	290	292
	80	175	174	173	171	171	171	173	174	175	174	173	171	171	171	173
	85	73	73	72	71	70	71	72	73	73	73	72	71	70	71	72
	90	2	3	3	3	3	3	3	3	2	3	3	3	3	3	3
	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	5914	5914
	45	5122	5098
	55	4827	4781
	65	4472	4418
	75	3832	3799
	85	2836	2794



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	5526	5526	5526	5526	5397	5397	5397	5397	5157	5157	5157	4938	4938	4938	4736	4736	4736	4642
1	5054	4834	4638	4461	4928	4729	4550	4388	4532	4384	4249	4350	4230	4119	4183	4087	3996	3899
2	4601	4221	3907	3643	4479	4133	3844	3599	3969	3725	3515	3817	3613	3435	3676	3508	3358	3258
3	4198	3712	3336	3037	4083	3639	3290	3009	3501	3202	2956	3373	3118	2904	3254	3038	2854	2753
4	3847	3294	2889	2580	3741	3232	2854	2561	3116	2786	2526	3008	2722	2491	2907	2661	2457	2357
5	3541	2947	2533	2226	3443	2895	2505	2214	2797	2453	2189	2705	2403	2165	2619	2355	2142	2044
6	3273	2657	2244	1948	3184	2613	2223	1939	2529	2181	1921	2451	2141	1904	2378	2103	1887	1792
7	3037	2412	2007	1724	2956	2374	1990	1717	2303	1957	1704	2236	1924	1692	2173	1893	1679	1587
8	2829	2204	1811	1541	2756	2171	1796	1536	2110	1769	1526	2052	1743	1516	1998	1717	1507	1419
9	2644	2025	1645	1389	2579	1997	1633	1385	1944	1611	1378	1894	1589	1370	1846	1568	1363	1278
10	2481	1870	1504	1261	2421	1846	1495	1258	1800	1476	1252	1756	1457	1247	1715	1440	1241	1160

Cone of Light Tabulation

Mounting Height	Footcandles at Nadir	Diameter (Feet)
4.00	110	4.80
6.00	48.8	7.20
8.00	27.4	9.60
10.0	17.6	12.0
12.0	12.2	14.4
14.0	8.96	16.8
16.0	6.86	19.2

Cone of Light Plot

