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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
LR34-22G-4800-35K-9A-U55-UNI-XXXX
Order Number
10888052
Test Number
1133385

Test Date

2015-07-24

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, clear prismatic lens
Lamp: 112 white LEDs
Mounting: Recessed
Ballast/Driver: One Universal Everline D10CC55UNVTZ-C

Luminaire



Luminaire Characteristics

Luminous Length: 21.75 in.
Luminous Width: 21.75 in.

Summary of Results

Total Luminaire Output: 4751 Lumens
Luminaire Efficacy: 90.8 lm/w
Maximum Candela: 2104 Candela

Electrical Data

Test Temperature: 24.9 °C
Voltage: 120.0 VAC
Current: 0.4370 A
Power: 52.34 W
Power Factor: 0.998
Frequency: 60 Hz
Current THD: 4.72 %

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
24.9 °C	120.0 VAC	0.4370 A	52.34 W	0.998	60 Hz	4.72 %

Summary of Results

Spacing Criteria

0-180: 1.20
90-270: 1.20

Total Lumen Output:

4751 Lumens

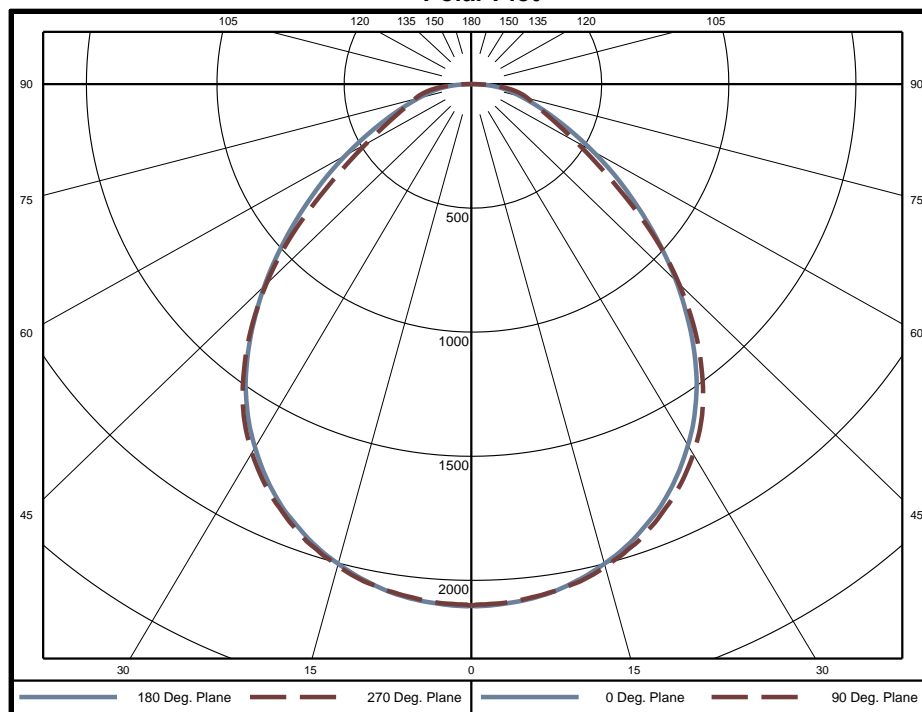
Luminaire Efficacy:

90.8 lm/w

Maximum Candela:

2104 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	50.1	1.1%	60-65	210.5	4.4%	120-125	0	0.0%
5-10	148.6	3.1%	65-70	157.2	3.3%	125-130	0	0.0%
10-15	241.6	5.1%	70-75	119.4	2.5%	130-135	0	0.0%
15-20	325.1	6.8%	75-80	93.4	2.0%	135-140	0	0.0%
20-25	395.1	8.3%	80-85	66.2	1.4%	140-145	0	0.0%
25-30	447.3	9.4%	85-90	26.8	0.6%	145-150	0	0.0%
30-35	478.4	10.1%	90-95	0	0.0%	150-155	0	0.0%
35-40	483.6	10.2%	95-100	0	0.0%	155-160	0	0.0%
40-45	461.3	9.7%	100-105	0	0.0%	160-165	0	0.0%
45-50	416.6	8.8%	105-110	0	0.0%	165-170	0	0.0%
50-55	351.6	7.4%	110-115	0	0.0%	170-175	0	0.0%
55-60	278.3	5.9%	115-120	0	0.0%	175-180	0	0.0%

Zone	Lumens	% of Luminaire
0-40	2570	54.1%
0-60	4078	85.8%
0-90	4751	100.0%
90-180	0	0.0%



Candela Tabulation

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	2103	2103	2103	2103	2103	2103	2103	2103	2103	2103	2103	2103	2103	2103	2103	2103
5	2093	2090	2091	2091	2088	2091	2091	2090	2093	2090	2091	2091	2088	2091	2091	2090
10	2060	2061	2062	2065	2063	2065	2062	2061	2060	2061	2062	2065	2063	2065	2062	2061
15	2002	2004	2011	2016	2016	2016	2011	2004	2002	2004	2011	2016	2016	2016	2011	2004
20	1922	1925	1934	1942	1944	1942	1934	1925	1922	1925	1934	1942	1944	1942	1934	1925
25	1819	1822	1828	1843	1848	1843	1828	1822	1819	1822	1828	1843	1848	1843	1828	1822
30	1687	1689	1695	1717	1728	1717	1695	1689	1687	1689	1695	1717	1728	1717	1695	1689
35	1531	1530	1535	1560	1575	1560	1535	1530	1531	1530	1535	1560	1575	1560	1535	1530
40	1341	1342	1346	1364	1377	1364	1346	1342	1341	1342	1346	1364	1377	1364	1346	1342
45	1136	1134	1141	1145	1151	1145	1141	1134	1136	1134	1141	1145	1151	1145	1141	1134
50	926	927	936	909	902	909	936	927	926	927	936	909	902	909	936	927
55	732	725	718	669	657	669	718	725	732	725	718	669	657	669	718	725
60	556	536	507	483	479	483	507	536	556	536	507	483	479	483	507	536
65	407	379	343	356	359	356	343	379	407	379	343	356	359	356	343	379
70	292	265	230	275	280	275	230	265	292	265	230	275	280	275	230	265
75	208	196	165	216	231	216	165	196	208	196	165	216	231	216	165	196
80	147	139	133	164	183	164	133	139	147	139	133	164	183	164	133	139
85	80	77	81	106	107	106	81	77	80	77	81	106	107	106	81	77
90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
95	0	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	0
105	0	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	0
115	0	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	0
125	0	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	0
135	0	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	0
145	0	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	0
155	0	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	0
165	0	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	0
175	0	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	0

Average Luminance (cd/m²)

Horizontal Angle (Degrees)

	0	45	90
0	6889	6889	6889
45	5262	5288	5333
55	4180	4100	3756
65	3154	2657	2783
75	2630	2086	2926
85	3009	3061	4035



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	5656	5656	5656	5656	5525	5525	5525	5525	5279	5279	5279	5054	5054	5054	4848	4848	4848	4751
1	5215	5008	4823	4656	5088	4902	4733	4581	4701	4563	4436	4517	4405	4301	4348	4258	4174	4078
2	4794	4437	4141	3893	4673	4348	4077	3847	4183	3955	3758	4030	3841	3674	3889	3733	3593	3496
3	4410	3951	3595	3312	4297	3877	3548	3283	3739	3458	3226	3611	3372	3171	3493	3291	3118	3020
4	4068	3541	3156	2861	3963	3480	3120	2842	3364	3051	2804	3256	2986	2767	3156	2923	2731	2634
5	3763	3194	2796	2503	3668	3142	2769	2490	3044	2715	2463	2953	2664	2438	2868	2615	2413	2317
6	3492	2898	2499	2213	3405	2854	2478	2204	2771	2435	2185	2693	2395	2167	2620	2356	2149	2056
7	3250	2644	2251	1976	3171	2607	2234	1969	2535	2200	1955	2469	2167	1942	2406	2135	1929	1839
8	3035	2425	2041	1778	2963	2393	2027	1773	2332	1999	1763	2274	1973	1752	2220	1947	1743	1656
9	2842	2235	1863	1612	2777	2207	1851	1608	2154	1828	1600	2104	1806	1592	2057	1784	1584	1501
10	2670	2069	1709	1470	2611	2045	1700	1467	1999	1680	1461	1955	1662	1455	1914	1644	1449	1369

Cone of Light Tabulation

Mounting Height	Footcandles at Nadir	Diameter (Feet)
4.00	131	4.82
6.00	58.4	7.22
8.00	32.9	9.63
10.0	21.0	12.0
12.0	14.6	14.4
14.0	10.7	16.9
16.0	8.21	19.3

Cone of Light Plot

