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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
LR2-24G-6200-35K-U55-UNI-XXXX
Order Number
10761618
Test Number
1105059

Test Date

2015-06-11

Prepared By

Derek Smarr, Technician

Approved By

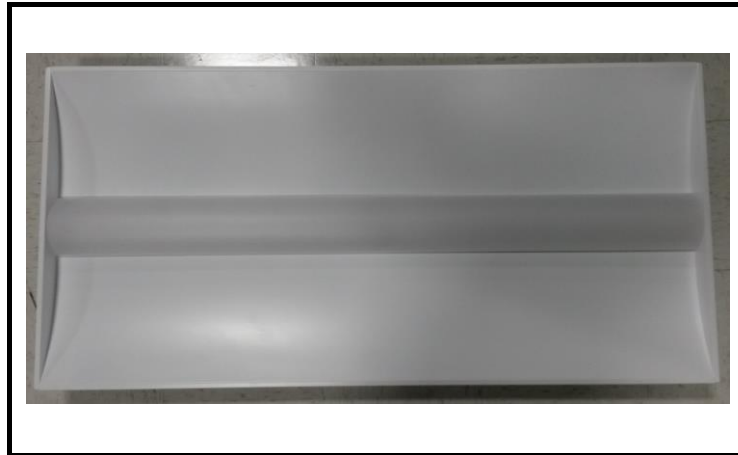
Kyle Spaziani, Project Handler

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Luminaire Description: White steel housing / reflector, frosted plastic lens enclosure
Lamp: 112 white LEDs
Mounting: Recessed
Ballast/Driver: One Universal Everline D10CC55UNVTZ-C (@1500mA)

Luminaire



Luminaire Characteristics

Luminous Length: 47.00 in.
Luminous Width: 22.75 in.

Summary of Results

Total Luminaire Output:	5854 Lumens
Luminaire Efficacy:	93.5 lm/w
Maximum Candela:	1922 Candela

Electrical Data

Test Temperature:	24.7 °C
Voltage:	120.0 VAC
Current:	0.5226 A
Power:	62.64 W
Power Factor:	0.999
Frequency:	60 Hz
Current THD:	4.03 %

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



Distribution - Goniophotometer

Distribution Test Conditions

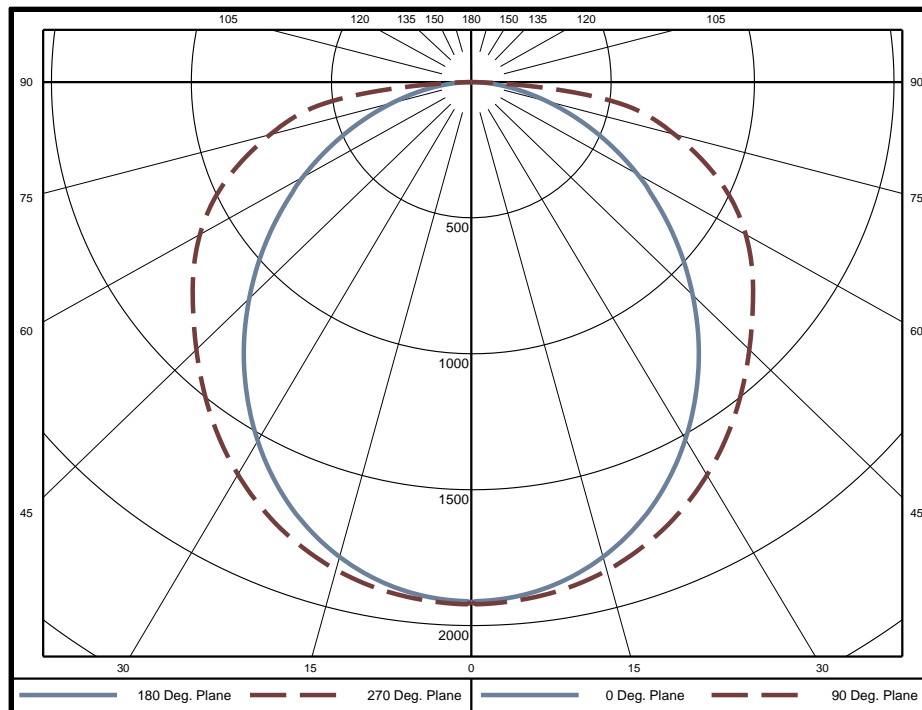
Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.7 °C	120.0 VAC	0.5226 A	62.64 W	0.999	60 Hz	4.03 %

Summary of Results

Spacing Criteria
 0-180: 1.19
 90-270: 1.19

Total Lumen Output: 5854 Lumens
Luminaire Efficacy: 93.5 lm/w
Maximum Candela: 1922 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	45.7	0.8%	60-65	409.3	7.0%	120-125	0	0.0%
5-10	135.3	2.3%	65-70	367.2	6.3%	125-130	0	0.0%
10-15	220.1	3.8%	70-75	314.8	5.4%	130-135	0	0.0%
15-20	296.8	5.1%	75-80	253.9	4.3%	135-140	0	0.0%
20-25	362.8	6.2%	80-85	175.4	3.0%	140-145	0	0.0%
25-30	415.6	7.1%	85-90	52.5	0.9%	145-150	0	0.0%
30-35	453.9	7.8%	90-95	0	0.0%	150-155	0	0.0%
35-40	477.2	8.2%	95-100	0	0.0%	155-160	0	0.0%
40-45	485.7	8.3%	100-105	0	0.0%	160-165	0	0.0%
45-50	481.0	8.2%	105-110	0	0.0%	165-170	0	0.0%
50-55	465.7	8.0%	110-115	0	0.0%	170-175	0	0.0%
55-60	441.4	7.5%	115-120	0	0.0%	175-180	0	0.0%

Zone	Lumens	% of Luminaire
0-40	2407	41.1%
0-60	4281	73.1%
0-90	5854	100.0%
90-180	0	0.0%



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	1914	1914	1914	1914	1914	1914	1914	1914	1914	1914	1914	1914	1914	1914	1914	1914
5	1899	1904	1903	1904	1914	1904	1903	1904	1899	1904	1903	1904	1914	1904	1903	1904
10	1865	1872	1875	1882	1894	1882	1875	1872	1865	1872	1875	1882	1894	1882	1875	1872
15	1809	1819	1831	1845	1859	1845	1831	1819	1809	1819	1831	1845	1859	1845	1831	1819
20	1733	1747	1768	1792	1809	1792	1768	1747	1733	1747	1768	1792	1809	1792	1768	1747
25	1636	1654	1690	1725	1745	1725	1690	1654	1636	1654	1690	1725	1745	1725	1690	1654
30	1522	1546	1596	1643	1668	1643	1596	1546	1522	1546	1596	1643	1668	1643	1596	1546
35	1395	1424	1489	1551	1581	1551	1489	1424	1395	1424	1489	1551	1581	1551	1489	1424
40	1260	1292	1374	1451	1486	1451	1374	1292	1260	1292	1374	1451	1486	1451	1374	1292
45	1117	1155	1252	1347	1390	1347	1252	1155	1117	1155	1252	1347	1390	1347	1252	1155
50	972	1014	1128	1246	1298	1246	1128	1014	972	1014	1128	1246	1298	1246	1128	1014
55	827	875	1006	1152	1212	1152	1006	875	827	875	1006	1152	1212	1152	1006	875
60	688	739	893	1059	1120	1059	893	739	688	739	893	1059	1120	1059	893	739
65	547	611	792	956	1012	956	792	611	547	611	792	956	1012	956	792	611
70	411	489	692	832	883	832	692	489	411	489	692	832	883	832	692	489
75	286	382	565	696	744	696	565	382	286	382	565	696	744	696	565	382
80	176	277	423	546	596	546	423	277	176	277	423	546	596	546	423	277
85	82	155	248	287	290	287	248	155	82	155	248	287	290	287	248	155
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)

Vertical Angle (Degrees)	Horizontal Angle (Degrees)		
	0	45	90
0	2774	2774	2774
45	2290	2566	2849
55	2090	2542	3063
65	1875	2717	3471
75	1602	3163	4166
85	1359	4124	4816



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	6969	6969	6969	6969	6807	6807	6807	6807	6505	6505	6505	6228	6228	6228	5974	5974	5974	5854
1	6285	5970	5688	5433	6120	5835	5577	5344	5582	5368	5173	5349	5175	5013	5135	4994	4862	4734
2	5677	5150	4715	4348	5517	5037	4636	4295	4824	4486	4193	4629	4345	4095	4447	4212	4002	3868
3	5153	4493	3981	3574	5003	4398	3923	3541	4219	3811	3476	4054	3706	3413	3900	3605	3353	3218
4	4707	3965	3421	3006	4567	3885	3377	2984	3734	3292	2941	3594	3210	2899	3464	3133	2858	2725
5	4322	3534	2983	2576	4195	3467	2949	2561	3339	2882	2531	3221	2818	2502	3110	2757	2474	2344
6	3988	3177	2632	2242	3873	3120	2605	2231	3012	2552	2210	2911	2502	2189	2817	2453	2168	2043
7	3697	2878	2347	1976	3592	2829	2325	1968	2737	2283	1952	2651	2242	1936	2570	2202	1921	1801
8	3441	2625	2112	1760	3346	2583	2094	1754	2504	2059	1742	2430	2026	1730	2360	1993	1719	1604
9	3215	2409	1915	1582	3130	2373	1900	1577	2305	1872	1568	2240	1844	1559	2180	1817	1550	1440
10	3014	2223	1749	1433	2938	2192	1736	1430	2132	1712	1423	2076	1689	1415	2023	1666	1408	1304

Cone of Light Tabulation

Mounting Height	Footcandles at Nadir	Diameter (Feet)
4.00	120	4.96
6.00	53.2	7.44
8.00	29.9	9.92
10.0	19.1	12.4
12.0	13.3	14.9
14.0	9.76	17.4
16.0	7.48	19.8

Cone of Light Plot

