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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
LR14-24G-6200-35K-U55-UNI-XXXX
Order Number
10761618
Test Number
1105061

Test Date

2015-06-11

Prepared By

Derek Smarr, Technician

Approved By

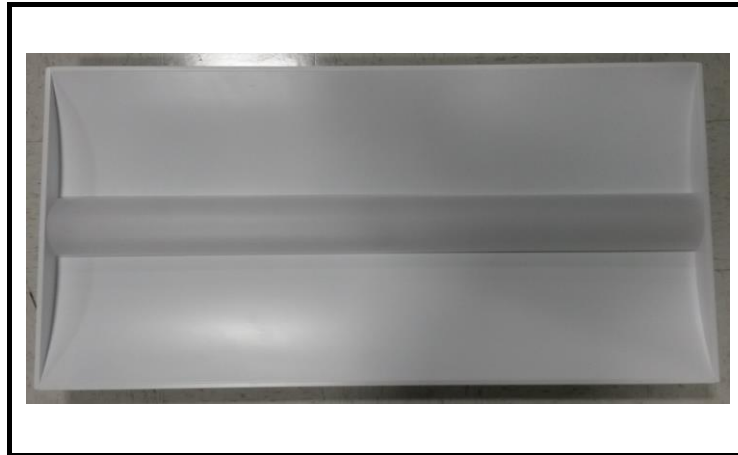
Kyle Spaziani, Project Handler

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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:	5867 Lumens
Luminaire Efficacy:	93.2 lm/w
Maximum Candela:	1903 Candela

Electrical Data

Test Temperature:	25.0 °C
Voltage:	120.0 VAC
Current:	0.5253 A
Power:	62.95 W
Power Factor:	0.999
Frequency:	60 Hz
Current THD:	3.96 %

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
25.0 °C	120.0 VAC	0.5253 A	62.95 W	0.999	60 Hz	3.96 %

Summary of Results

Spacing Criteria

0-180: 1.19

90-270: 1.19

Total Lumen Output:

5867 Lumens

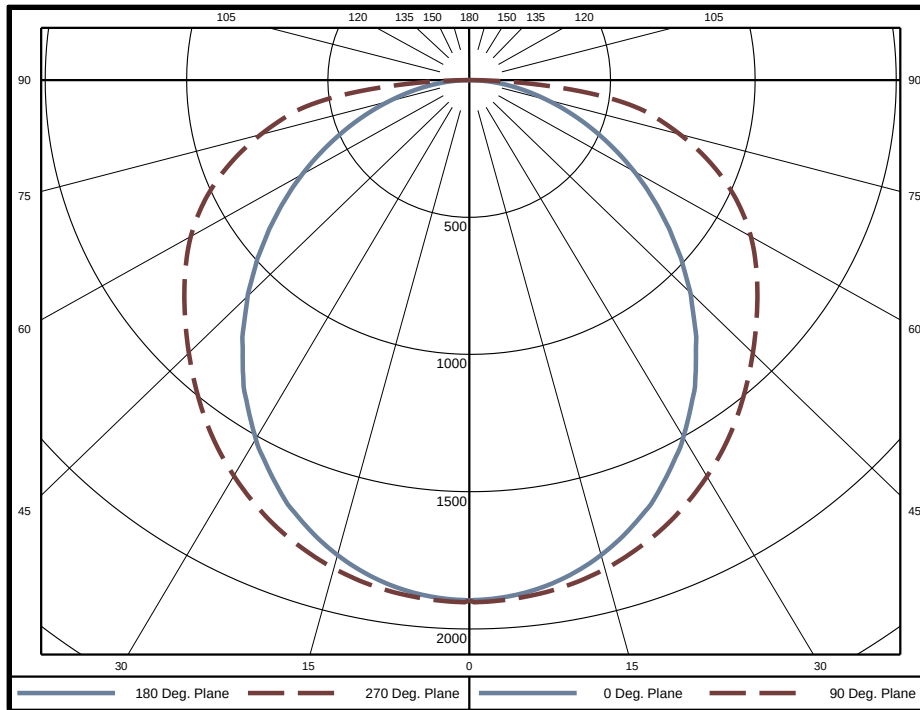
Luminaire Efficacy:

93.2 lm/w

Maximum Candela:

1903 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	45.2	0.8%	60-65	411.4	7.0%	120-125	0	0.0%
5-10	134.1	2.3%	65-70	370.5	6.3%	125-130	0	0.0%
10-15	218.1	3.7%	70-75	319.3	5.4%	130-135	0	0.0%
15-20	294.2	5.0%	75-80	258.7	4.4%	135-140	0	0.0%
20-25	359.8	6.1%	80-85	181.6	3.1%	140-145	0	0.0%
25-30	412.4	7.0%	85-90	63.9	1.1%	145-150	0	0.0%
30-35	450.9	7.7%	90-95	0	0.0%	150-155	0	0.0%
35-40	474.5	8.1%	95-100	0	0.0%	155-160	0	0.0%
40-45	483.8	8.2%	100-105	0	0.0%	160-165	0	0.0%
45-50	480.3	8.2%	105-110	0	0.0%	165-170	0	0.0%
50-55	465.9	7.9%	110-115	0	0.0%	170-175	0	0.0%
55-60	442.7	7.5%	115-120	0	0.0%	175-180	0	0.0%

Zone	Lumens	% of Luminaire
0-40	2389	40.7%
0-60	4262	72.6%
0-90	5867	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	1896	1896	1896	1896	1896	1896	1896	1896	1896	1896	1896	1896	1896	1896	1896
	5	1883	1887	1886	1887	1896	1887	1886	1887	1883	1887	1886	1887	1896	1887	1886
	10	1849	1855	1859	1866	1876	1866	1859	1855	1849	1855	1859	1866	1876	1866	1859
	15	1792	1802	1814	1830	1843	1830	1814	1802	1792	1802	1814	1830	1843	1830	1814
	20	1716	1729	1753	1778	1796	1778	1753	1729	1716	1729	1753	1778	1796	1778	1753
	25	1619	1639	1675	1714	1736	1714	1675	1639	1619	1639	1675	1714	1736	1714	1675
	30	1507	1528	1582	1636	1665	1636	1582	1528	1507	1528	1582	1636	1665	1636	1582
	35	1384	1406	1478	1550	1584	1550	1478	1406	1384	1406	1478	1550	1584	1550	1478
	40	1245	1276	1365	1454	1495	1454	1365	1276	1245	1276	1365	1454	1495	1454	1365
	45	1105	1140	1246	1354	1403	1354	1246	1140	1105	1140	1246	1354	1403	1354	1246
	50	958	1003	1126	1256	1313	1256	1126	1003	958	1003	1126	1256	1313	1256	1126
	55	816	865	1008	1163	1227	1163	1008	865	816	865	1008	1163	1227	1163	1008
	60	676	732	899	1072	1137	1072	899	732	676	732	899	1072	1137	1072	899
	65	539	606	800	970	1030	970	800	606	539	606	800	970	1030	970	800
	70	410	491	695	848	905	848	695	491	410	491	695	848	905	848	695
	75	289	388	572	709	762	709	572	388	289	388	572	709	762	709	572
	80	181	284	433	558	608	558	433	284	181	284	433	558	608	558	433
	85	86	167	263	310	321	310	263	167	86	167	263	310	321	310	263
	90	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
	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	2749	2749
	45	2265	2555
	55	2062	2548
	65	1849	2744
	75	1616	3202
	85	1433	4374



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	6985	6985	6985	6985	6822	6822	6822	6822	6519	6519	6519	6242	6242	6242	5987	5987	5987	5867
1	6290	5971	5685	5427	6125	5835	5574	5337	5581	5365	5167	5348	5171	5006	5133	4990	4856	4727
2	5679	5147	4707	4337	5518	5033	4628	4284	4820	4478	4182	4623	4336	4084	4441	4203	3991	3856
3	5153	4487	3972	3561	5002	4392	3914	3528	4213	3802	3463	4047	3696	3401	3893	3595	3340	3204
4	4706	3958	3411	2993	4566	3878	3367	2971	3727	3281	2928	3587	3200	2886	3456	3122	2846	2712
5	4321	3527	2973	2564	4193	3460	2939	2549	3332	2872	2519	3213	2808	2490	3102	2747	2462	2331
6	3987	3171	2623	2230	3870	3113	2596	2219	3005	2543	2198	2904	2492	2177	2809	2443	2157	2031
7	3694	2872	2338	1965	3590	2823	2316	1957	2730	2274	1941	2644	2232	1926	2562	2193	1910	1790
8	3438	2619	2103	1749	3344	2577	2086	1743	2498	2051	1732	2423	2017	1720	2353	1984	1708	1593
9	3212	2403	1907	1572	3127	2367	1892	1568	2298	1863	1559	2234	1835	1549	2173	1808	1541	1430
10	3012	2217	1741	1424	2935	2186	1729	1421	2126	1705	1414	2070	1681	1406	2017	1658	1399	1294

Cone of Light Tabulation

Mounting Height	Footcandles at Nadir	Diameter (Feet)
4.00	119	4.97
6.00	52.7	7.45
8.00	29.6	9.93
10.0	19.0	12.4
12.0	13.2	14.9
14.0	9.68	17.4
16.0	7.41	19.9

Cone of Light Plot

