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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
LR4-24G-5000-35K-U55-UNI-XXXX
Order Number
10761618
Test Number
1105064

Test Date

2015-06-11

Prepared By

Derek Smarr, Technician

Approved By

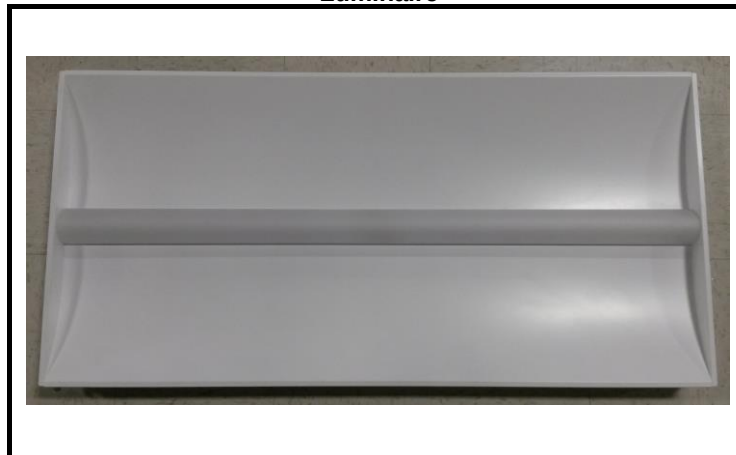
Kyle Spaziani, Project Handler

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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 (@1050mA)

Luminaire



Luminaire Characteristics

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

Summary of Results

Total Luminaire Output:	4659 Lumens
Luminaire Efficacy:	90.8 lm/w
Maximum Candela:	1500 Candela

Electrical Data

Test Temperature:	24.9 °C
Voltage:	120.0 VAC
Current:	0.4279 A
Power:	51.30 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	0.4279 A	51.30 W	0.998	60 Hz	4.72 %

Summary of Results

Spacing Criteria

0-180: 1.17

90-270: 1.17

Total Lumen Output:

4659 Lumens

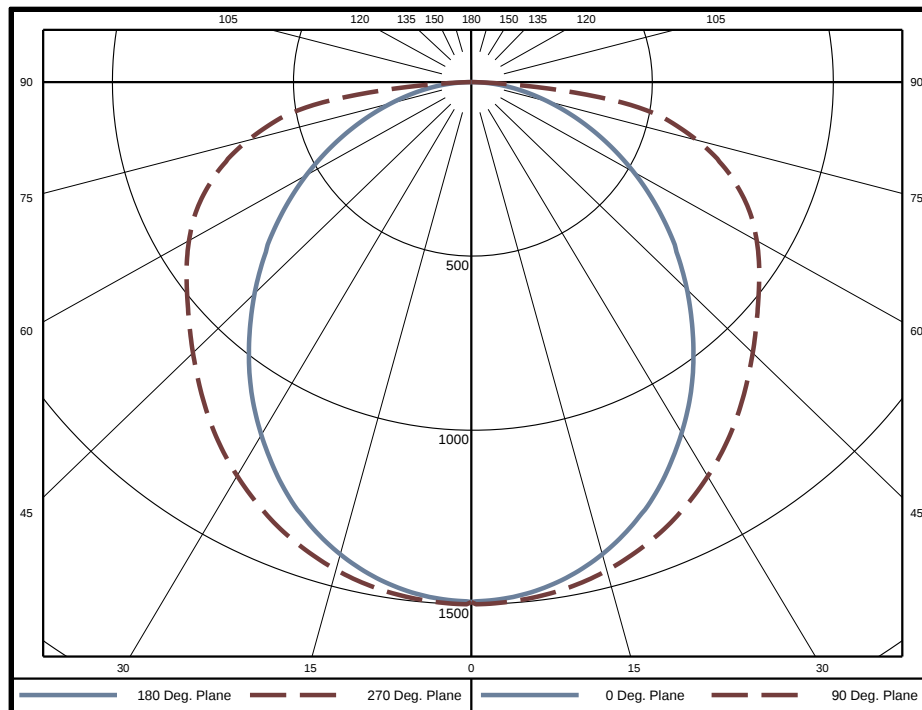
Luminaire Efficacy:

90.8 lm/w

Maximum Candela:

1500 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	35.6	0.8%	60-65	330.7	7.1%	120-125	0	0.0%
5-10	105.5	2.3%	65-70	304.5	6.5%	125-130	0	0.0%
10-15	171.4	3.7%	70-75	269.7	5.8%	130-135	0	0.0%
15-20	230.9	5.0%	75-80	223.1	4.8%	135-140	0	0.0%
20-25	281.9	6.1%	80-85	152.5	3.3%	140-145	0	0.0%
25-30	322.5	6.9%	85-90	39.9	0.9%	145-150	0	0.0%
30-35	352.0	7.6%	90-95	0	0.0%	150-155	0	0.0%
35-40	370.2	7.9%	95-100	0	0.0%	155-160	0	0.0%
40-45	377.4	8.1%	100-105	0	0.0%	160-165	0	0.0%
45-50	375.1	8.1%	105-110	0	0.0%	165-170	0	0.0%
50-55	365.8	7.9%	110-115	0	0.0%	170-175	0	0.0%
55-60	350.7	7.5%	115-120	0	0.0%	175-180	0	0.0%

Zone	Lumens	% of Luminaire
0-40	1870	40.1%
0-60	3339	71.7%
0-90	4659	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	1494	1494	1494	1494	1494	1494	1494	1494	1494	1494	1494	1494	1494	1494	1494
	5	1482	1486	1485	1486	1494	1486	1485	1486	1482	1486	1485	1486	1494	1486	1485
	10	1453	1458	1462	1468	1479	1468	1462	1458	1453	1458	1462	1468	1479	1468	1462
	15	1405	1414	1425	1438	1451	1438	1425	1414	1405	1414	1425	1438	1451	1438	1425
	20	1341	1353	1375	1397	1412	1397	1375	1353	1341	1353	1375	1397	1412	1397	1375
	25	1262	1278	1311	1344	1363	1344	1311	1278	1262	1278	1311	1344	1363	1344	1311
	30	1169	1191	1237	1282	1306	1282	1237	1191	1169	1191	1237	1282	1306	1282	1237
	35	1069	1094	1155	1212	1241	1212	1155	1094	1069	1094	1155	1212	1241	1212	1155
	40	961	993	1067	1137	1170	1137	1067	993	961	993	1067	1137	1170	1137	1067
	45	851	888	975	1059	1098	1059	975	888	851	888	975	1059	1098	1059	975
	50	743	782	884	984	1030	984	884	782	743	782	884	984	1030	984	884
	55	635	683	795	918	969	918	795	683	635	683	795	918	969	918	795
	60	527	583	721	857	908	857	721	583	527	583	721	857	908	857	721
	65	421	487	656	793	839	793	656	487	421	487	656	793	839	793	656
	70	320	403	591	714	752	714	591	403	320	403	591	714	752	714	591
	75	227	331	505	606	644	606	505	331	227	331	505	606	644	606	505
	80	144	259	386	476	509	476	386	259	144	259	386	476	509	476	386
	85	70	151	212	216	215	216	212	151	70	151	212	216	215	216	212
	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	2165	2165
	45	1746	1999
	55	1604	2009
	65	1443	2250
	75	1270	2826
	85	1158	3518



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	5547	5547	5547	5547	5418	5418	5418	5418	5177	5177	5177	4957	4957	4957	4755	4755	4755	4659
1	4989	4733	4503	4296	4857	4625	4415	4225	4423	4249	4090	4237	4095	3963	4066	3951	3844	3741
2	4498	4071	3718	3422	4370	3981	3656	3380	3811	3536	3299	3654	3424	3222	3510	3318	3148	3040
3	4079	3545	3132	2803	3958	3469	3086	2777	3326	2997	2725	3194	2912	2676	3071	2833	2628	2520
4	3723	3125	2687	2353	3611	3061	2652	2335	2940	2584	2301	2829	2519	2268	2725	2457	2236	2129
5	3417	2783	2340	2013	3315	2730	2313	2001	2628	2260	1978	2533	2209	1955	2445	2161	1932	1828
6	3153	2501	2064	1750	3060	2456	2042	1742	2369	2000	1725	2289	1960	1709	2213	1921	1692	1592
7	2922	2265	1840	1542	2838	2226	1822	1535	2153	1788	1523	2084	1755	1511	2019	1724	1499	1402
8	2719	2066	1655	1373	2644	2033	1641	1368	1969	1613	1359	1910	1586	1349	1854	1560	1340	1248
9	2540	1895	1500	1234	2473	1867	1489	1230	1812	1466	1223	1761	1443	1216	1712	1422	1209	1121
10	2382	1749	1370	1118	2321	1724	1360	1115	1677	1341	1109	1632	1322	1104	1590	1304	1098	1014

Cone of Light Tabulation

Mounting Height	Footcandles at Nadir	Diameter (Feet)
4.00	93.4	4.93
6.00	41.5	7.40
8.00	23.3	9.86
10.0	14.9	12.3
12.0	10.4	14.8
14.0	7.62	17.3
16.0	5.83	19.7

Cone of Light Plot

