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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-5000-35K-U55-UNI-XXXX
Order Number
10761618
Test Number
1105060

Test Date

2015-06-11

Prepared By

Derek Smarr, Technician

Approved By

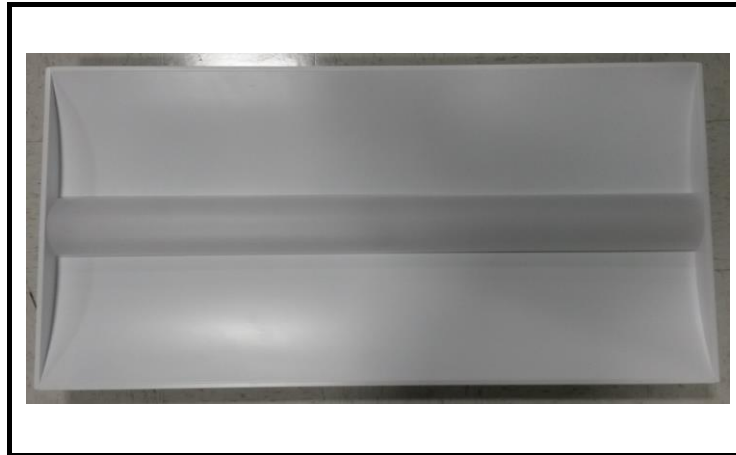
Kyle Spaziani, Project Handler

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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: 4879 Lumens
Luminaire Efficacy: 94.2 lm/w
Maximum Candela: 1585 Candela

Electrical Data

Test Temperature: 24.9 °C
Voltage: 120.0 VAC
Current: 0.4319 A
Power: 51.77 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

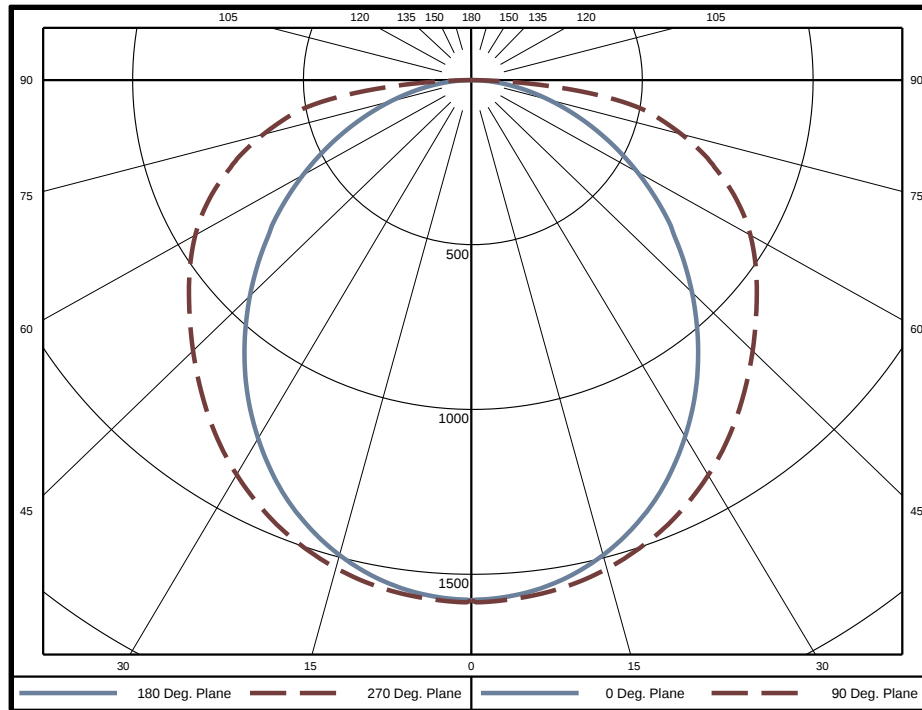
Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.9 °C	120.0 VAC	0.4319 A	51.77 W	0.998	60 Hz	4.72 %

Summary of Results

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

Total Lumen Output: 4879 Lumens
Luminaire Efficacy: 94.2 lm/w
Maximum Candela: 1585 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	37.7	0.8%	60-65	342.2	7.0%	120-125	0	0.0%
5-10	111.6	2.3%	65-70	308.7	6.3%	125-130	0	0.0%
10-15	181.6	3.7%	70-75	266.9	5.5%	130-135	0	0.0%
15-20	245.0	5.0%	75-80	216.7	4.4%	135-140	0	0.0%
20-25	299.5	6.1%	80-85	151.2	3.1%	140-145	0	0.0%
25-30	343.2	7.0%	85-90	50.1	1.0%	145-150	0	0.0%
30-35	375.1	7.7%	90-95	0	0.0%	150-155	0	0.0%
35-40	394.6	8.1%	95-100	0	0.0%	155-160	0	0.0%
40-45	402.0	8.2%	100-105	0	0.0%	160-165	0	0.0%
45-50	398.6	8.2%	105-110	0	0.0%	165-170	0	0.0%
50-55	386.7	7.9%	110-115	0	0.0%	170-175	0	0.0%
55-60	367.7	7.5%	115-120	0	0.0%	175-180	0	0.0%

Zone	Lumens	% of Luminaire
0-40	1988	40.8%
0-60	3543	72.6%
0-90	4879	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	1579	1579	1579	1579	1579	1579	1579	1579	1579	1579	1579	1579	1579	1579	1579
	5	1568	1571	1571	1571	1578	1571	1571	1568	1571	1571	1571	1578	1571	1571	1571
	10	1540	1544	1548	1553	1562	1553	1548	1544	1540	1544	1548	1553	1562	1553	1548
	15	1493	1500	1511	1523	1534	1523	1511	1500	1493	1500	1511	1523	1534	1523	1511
	20	1429	1440	1460	1480	1495	1480	1460	1440	1429	1440	1460	1480	1495	1480	1460
	25	1349	1363	1395	1426	1444	1426	1395	1363	1349	1363	1395	1426	1444	1426	1395
	30	1254	1273	1318	1360	1383	1360	1318	1273	1254	1273	1318	1360	1383	1360	1318
	35	1149	1172	1231	1287	1314	1287	1231	1172	1149	1172	1231	1287	1314	1287	1231
	40	1036	1064	1136	1206	1237	1206	1136	1064	1036	1064	1136	1206	1237	1206	1136
	45	918	950	1036	1121	1160	1121	1036	950	918	950	1036	1121	1160	1121	1036
	50	800	835	934	1039	1085	1039	934	835	800	835	934	1039	1085	1039	934
	55	686	726	836	961	1013	961	836	726	686	726	836	961	1013	961	836
	60	567	613	747	887	939	887	747	613	567	613	747	887	939	887	747
	65	453	506	668	804	851	804	668	506	453	506	668	804	851	804	668
	70	343	410	584	708	749	708	584	410	343	410	584	708	749	708	584
	75	242	324	481	592	634	592	481	324	242	324	481	592	634	592	481
	80	151	241	365	467	505	467	365	241	151	241	365	467	505	467	365
	85	71	139	218	250	256	250	218	139	71	139	218	250	256	250	218
	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	2289	2289
	45	1882	2123
	55	1733	2112
	65	1554	2291
	75	1353	2696
	85	1187	3633



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	5808	5808	5808	5808	5673	5673	5673	5673	5421	5421	5421	5190	5190	5190	4979	4979	4979	4879
1	5231	4966	4728	4514	5094	4853	4636	4440	4642	4462	4298	4448	4301	4164	4269	4150	4039	3932
2	4722	4280	3915	3607	4589	4186	3849	3563	4009	3724	3478	3845	3606	3397	3694	3496	3319	3207
3	4286	3732	3304	2962	4160	3653	3255	2934	3504	3162	2880	3365	3074	2828	3237	2990	2778	2665
4	3913	3292	2837	2490	3797	3226	2800	2471	3100	2729	2436	2983	2661	2401	2874	2597	2367	2255
5	3593	2934	2473	2133	3487	2878	2444	2120	2771	2389	2095	2672	2336	2071	2580	2285	2047	1939
6	3315	2637	2182	1855	3219	2590	2159	1846	2499	2115	1828	2415	2073	1811	2336	2032	1794	1689
7	3073	2388	1945	1634	2985	2348	1927	1628	2271	1891	1615	2199	1857	1602	2131	1824	1589	1489
8	2860	2178	1750	1455	2781	2144	1735	1450	2078	1706	1441	2016	1678	1431	1957	1651	1421	1325
9	2672	1999	1587	1308	2601	1969	1574	1304	1912	1550	1297	1858	1527	1289	1807	1504	1282	1190
10	2505	1844	1449	1185	2441	1818	1438	1182	1769	1418	1176	1722	1399	1170	1678	1380	1164	1077

Cone of Light Tabulation

Mounting Height	Footcandles at Nadir	Diameter (Feet)
4.00	98.7	4.96
6.00	43.9	7.44
8.00	24.7	9.93
10.0	15.8	12.4
12.0	11.0	14.9
14.0	8.06	17.4
16.0	6.17	19.9

Cone of Light Plot

