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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
LR25-24G-5000-35K-U55-UNI-XXXX
Order Number
10857788
Test Number
1124774

Test Date

2015-07-09

Prepared By

Derek Smarr, Technician

Approved By

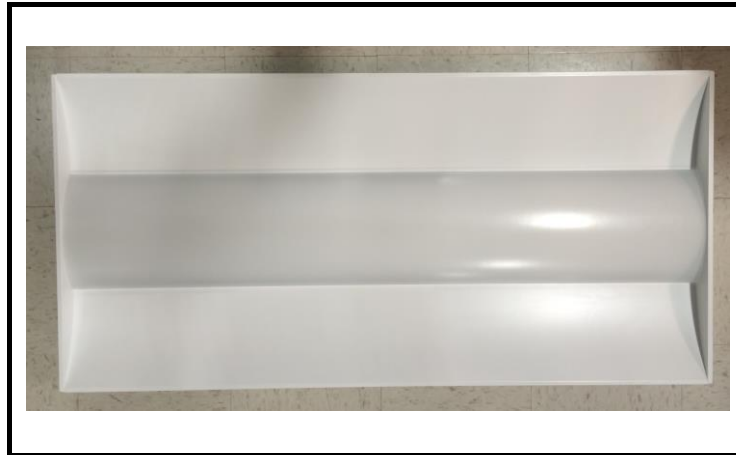
Kyle Spaziani, Project Handler

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Luminaire Description: White steel housing / reflector, frosted plastic lens enclosure
Lamp: 110 white LEDs
Mounting: Recessed
Ballast/Driver: One Universal Everline D10CC55UNVTZ-C (1050mA)

Luminaire



Luminaire Characteristics

Luminous Length: 47.00 in.
Luminous Width: 23.00 in.

Summary of Results

Total Luminaire Output: 5067 Lumens
Luminaire Efficacy: 96.1 lm/w
Maximum Candela: 1756 Candela

Electrical Data

Test Temperature: 24.6 °C
Voltage: 120.0 VAC
Current: 0.4399 A
Power: 52.74 W
Power Factor: 0.998
Frequency: 60 Hz
Current THD: 4.90 %

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
24.6 °C	120.0 VAC	0.4399 A	52.74 W	0.998	60 Hz	4.90 %

Summary of Results

Spacing Criteria

0-180: 1.19

90-270: 1.19

Total Lumen Output:

5067 Lumens

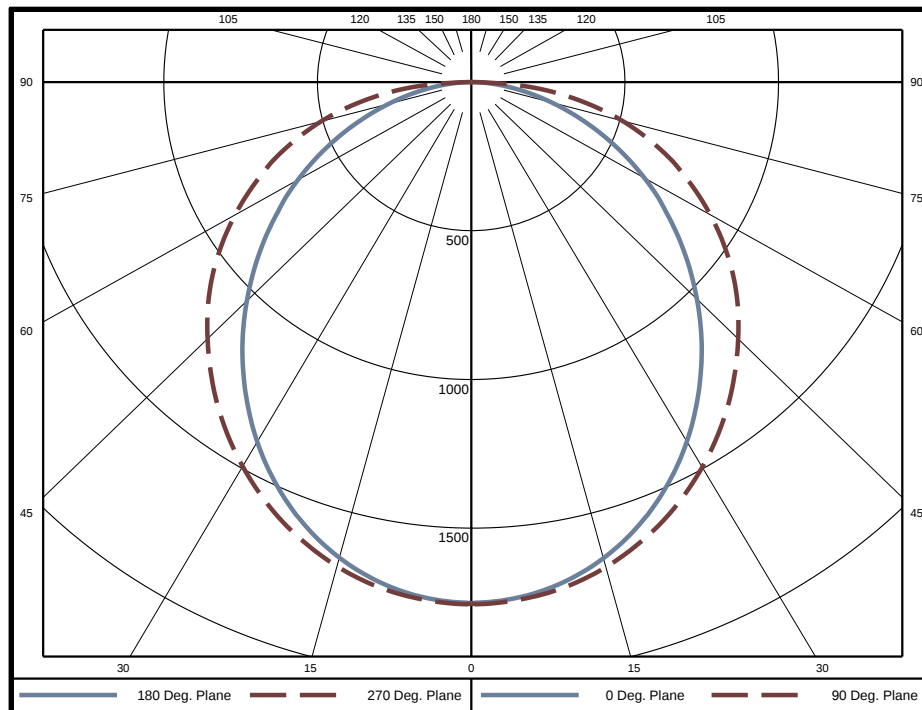
Luminaire Efficacy:

96.1 lm/w

Maximum Candela:

1756 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	41.8	0.8%	60-65	346.0	6.8%	120-125	0	0.0%
5-10	123.8	2.4%	65-70	297.6	5.9%	125-130	0	0.0%
10-15	201.0	4.0%	70-75	240.9	4.8%	130-135	0	0.0%
15-20	270.5	5.3%	75-80	178.3	3.5%	135-140	0	0.0%
20-25	329.9	6.5%	80-85	110.4	2.2%	140-145	0	0.0%
25-30	377.1	7.4%	85-90	36.0	0.7%	145-150	0	0.0%
30-35	411.3	8.1%	90-95	0	0.0%	150-155	0	0.0%
35-40	431.8	8.5%	95-100	0	0.0%	155-160	0	0.0%
40-45	438.6	8.7%	100-105	0	0.0%	160-165	0	0.0%
45-50	432.6	8.5%	105-110	0	0.0%	165-170	0	0.0%
50-55	414.5	8.2%	110-115	0	0.0%	170-175	0	0.0%
55-60	385.2	7.6%	115-120	0	0.0%	175-180	0	0.0%

Zone	Lumens	% of Luminaire
0-40	2187	43.2%
0-60	3858	76.1%
0-90	5067	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	1753	1753	1753	1753	1753	1753	1753	1753	1753	1753	1753	1753	1753	1753	1753
	5	1740	1745	1743	1742	1747	1742	1743	1745	1740	1745	1743	1742	1747	1742	1743
	10	1709	1714	1716	1718	1725	1718	1716	1714	1709	1714	1716	1718	1725	1718	1716
	15	1658	1665	1671	1679	1687	1679	1671	1665	1658	1665	1671	1679	1687	1679	1671
	20	1588	1597	1611	1623	1634	1623	1611	1597	1588	1597	1611	1623	1634	1623	1611
	25	1501	1512	1535	1556	1570	1556	1535	1512	1501	1512	1535	1556	1570	1556	1535
	30	1400	1414	1446	1476	1494	1476	1446	1414	1400	1414	1446	1476	1494	1476	1446
	35	1286	1305	1349	1388	1410	1388	1349	1305	1286	1305	1349	1388	1410	1388	1349
	40	1166	1188	1242	1292	1318	1292	1242	1188	1166	1188	1242	1292	1318	1292	1242
	45	1039	1065	1130	1191	1220	1191	1130	1065	1039	1065	1130	1191	1220	1191	1130
	50	910	939	1012	1086	1121	1086	1012	939	910	939	1012	1086	1121	1086	1012
	55	780	812	891	976	1011	976	891	812	780	812	891	976	1011	976	891
	60	654	689	773	858	892	858	773	689	654	689	773	858	892	858	773
	65	524	562	656	737	769	737	656	562	524	562	656	737	769	737	656
	70	397	439	530	610	644	610	530	439	397	439	530	610	644	610	530
	75	277	323	401	476	508	476	401	323	277	323	401	476	508	476	401
	80	169	210	271	330	356	330	271	210	169	210	271	330	356	330	271
	85	76	100	138	177	192	177	138	100	76	100	138	177	192	177	138
	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	2513	2513
	45	2107	2474
	55	1951	2526
	65	1779	2608
	75	1536	2812
	85	1256	3162



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	6032	6032	6032	6032	5892	5892	5892	5892	5630	5630	5630	5390	5390	5390	5170	5170	5170	5067
1	5475	5218	4987	4779	5335	5102	4891	4701	4884	4711	4551	4685	4543	4411	4500	4386	4279	4170
2	4962	4525	4163	3859	4826	4428	4095	3813	4246	3965	3723	4078	3843	3637	3923	3728	3555	3442
3	4514	3961	3532	3191	4386	3880	3482	3162	3727	3385	3104	3585	3294	3049	3453	3207	2996	2882
4	4128	3503	3045	2695	4010	3434	3006	2675	3305	2932	2637	3186	2862	2600	3074	2795	2564	2451
5	3794	3126	2660	2315	3686	3069	2630	2302	2960	2573	2276	2858	2518	2250	2763	2465	2225	2115
6	3503	2813	2350	2018	3404	2764	2327	2009	2672	2281	1990	2585	2237	1972	2504	2195	1954	1847
7	3247	2550	2098	1781	3158	2508	2079	1774	2429	2042	1760	2355	2007	1747	2285	1972	1734	1631
8	3023	2327	1889	1588	2942	2291	1873	1583	2223	1843	1572	2159	1814	1562	2099	1786	1552	1454
9	2825	2136	1714	1429	2752	2105	1701	1425	2046	1676	1417	1991	1652	1409	1939	1629	1401	1307
10	2649	1971	1565	1295	2583	1944	1555	1292	1893	1534	1286	1845	1514	1280	1800	1494	1274	1184

Cone of Light Tabulation

Mounting Height	Footcandles at Nadir	Diameter (Feet)
4.00	110	4.91
6.00	48.7	7.37
8.00	27.4	9.83
10.0	17.5	12.3
12.0	12.2	14.7
14.0	8.94	17.2
16.0	6.85	19.7

Cone of Light Plot

