



UL Verification Services Inc.
7036 Snowdrift Road
Allentown, PA 18106
610-774-1300



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
LR5-14G-5000-35K-U55-UNI-XXXX

Order Number
10742397
Test Number
1020027

Test Date

2015-04-13

Prepared By

Dane Hernandez-Adams, Technician

Approved By

Kyle Spaziani, Project Handler

The results contained in this report pertain only to the tested sample.
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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: 11.00 in.

Summary of Results

Total Luminaire Output: 4877 Lumens
Luminaire Efficacy: 92.6 lm/w
Maximum Candela: 1699 Candela

Electrical Data

Test Temperature: 24.9 °C
Voltage: 120.0 VAC
Current: 0.4394 A
Power: 52.64 W
Power Factor: 0.998
Frequency: 60 Hz
Current THD: 4.78 %

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



Distribution - Goniophotometer

Distribution Test Conditions

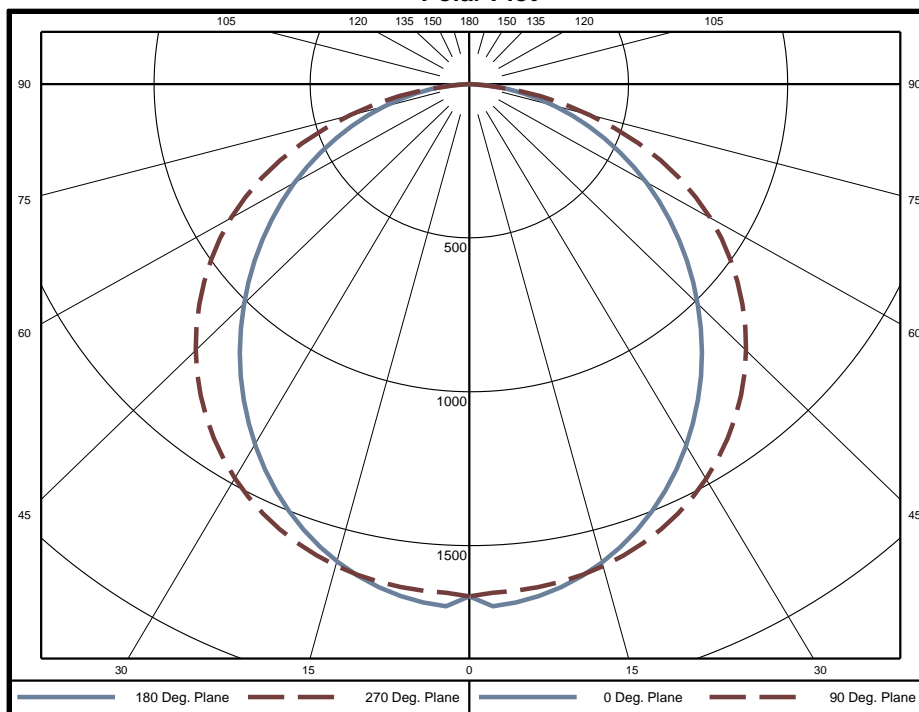
Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.9 °C	120.0 VAC	0.4394 A	52.64 W	0.998	60 Hz	4.78 %

Summary of Results

Spacing Criteria
 0-180: 1.21
 90-270: 1.32

Total Lumen Output: 4877 Lumens
Luminaire Efficacy: 92.6 lm/w
Maximum Candela: 1699 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	42.2	0.9%	60-65	338.9	6.9%	120-125	0.0	0.0%
5-10	117.9	2.4%	65-70	284.9	5.8%	125-130	0.0	0.0%
10-15	192.4	3.9%	70-75	220.6	4.5%	130-135	0.0	0.0%
15-20	260.4	5.3%	75-80	150.1	3.1%	135-140	0.0	0.0%
20-25	319.6	6.6%	80-85	77.7	1.6%	140-145	0.0	0.0%
25-30	368.0	7.5%	85-90	15.6	0.3%	145-150	0.0	0.0%
30-35	404.0	8.3%	90-95	0.0	0.0%	150-155	0.0	0.0%
35-40	426.5	8.7%	95-100	0.0	0.0%	155-160	0.0	0.0%
40-45	435.1	8.9%	100-105	0.0	0.0%	160-165	0.0	0.0%
45-50	430.0	8.8%	105-110	0.0	0.0%	165-170	0.0	0.0%
50-55	411.7	8.4%	110-115	0.0	0.0%	170-175	0.0	0.0%
55-60	381.3	7.8%	115-120	0.0	0.0%	175-180	0.0	0.0%

Zone	Lumens	% of Luminaire
0-40	2131.0	43.7%
0-60	3789.1	77.7%
0-90	4877.0	100.0%
90-180	0.0	0.0%



Candela Tabulation
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	1665	1665	1665	1665	1665	1665	1665	1665	1665	1665	1665	1665	1665	1665	1665	1665
5	1691	1662	1649	1653	1653	1653	1649	1662	1691	1662	1649	1653	1653	1653	1649	1662
10	1661	1636	1630	1640	1643	1640	1630	1636	1661	1636	1630	1640	1643	1640	1630	1636
15	1610	1592	1597	1616	1621	1616	1597	1592	1610	1592	1597	1616	1621	1616	1597	1592
20	1543	1533	1550	1578	1587	1578	1550	1533	1543	1533	1550	1578	1587	1578	1550	1533
25	1459	1458	1489	1527	1541	1527	1489	1458	1459	1458	1489	1527	1541	1527	1489	1458
30	1361	1370	1414	1462	1480	1462	1414	1370	1361	1370	1414	1462	1480	1462	1414	1370
35	1254	1272	1328	1385	1406	1385	1328	1272	1254	1272	1328	1385	1406	1385	1328	1272
40	1139	1164	1231	1295	1320	1295	1231	1164	1139	1164	1231	1295	1320	1295	1231	1164
45	1017	1050	1124	1195	1222	1195	1124	1050	1017	1050	1124	1195	1222	1195	1124	1050
50	894	932	1011	1085	1113	1085	1011	932	894	932	1011	1085	1113	1085	1011	932
55	769	812	890	967	995	967	890	812	769	812	890	967	995	967	890	812
60	646	689	767	841	868	841	767	689	646	689	767	841	868	841	767	689
65	521	565	638	703	724	703	638	565	521	565	638	703	724	703	638	565
70	399	441	504	550	562	550	504	441	399	441	504	550	562	550	504	441
75	281	320	364	386	390	386	364	320	281	320	364	386	390	386	364	320
80	172	202	218	226	227	226	218	202	172	202	218	226	227	226	218	202
85	76	87	81	65	54	65	81	87	76	87	81	65	54	65	81	87
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)

	0	45	90
0	4992	4992	4992
45	4311	4767	5180
55	4022	4654	5201
65	3695	4525	5139
75	3258	4211	4514
85	2606	2769	1844



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	4978	4978	4978	4879
1	5296	5058	4845	4653	5162	4947	4753	4577	4738	4578	4432	4547	4417	4296	4371	4266	4168	4065
2	4805	4394	4054	3769	4675	4301	3989	3723	4127	3864	3636	3966	3746	3552	3818	3635	3473	3366
3	4372	3848	3443	3119	4250	3770	3394	3091	3624	3301	3035	3488	3213	2981	3362	3129	2930	2821
4	3998	3403	2967	2634	3884	3337	2930	2615	3214	2859	2578	3099	2791	2542	2992	2727	2507	2400
5	3673	3036	2590	2262	3569	2980	2562	2249	2876	2506	2223	2779	2454	2198	2688	2403	2174	2069
6	3390	2730	2287	1970	3295	2683	2265	1961	2594	2221	1943	2511	2179	1925	2434	2138	1907	1805
7	3141	2473	2040	1737	3055	2433	2022	1730	2357	1986	1717	2286	1952	1703	2219	1919	1691	1592
8	2923	2255	1835	1547	2845	2221	1820	1542	2156	1791	1532	2094	1764	1522	2037	1737	1512	1418
9	2730	2069	1664	1390	2660	2039	1651	1386	1983	1628	1379	1930	1604	1371	1880	1582	1363	1273
10	2559	1908	1519	1259	2496	1882	1508	1256	1834	1488	1250	1787	1469	1244	1744	1450	1238	1152

Cone of Light Tabulation

Mounting Height	Footcandles at Nadir	Diameter (Feet)
4.00	104	5.05
6.00	46.3	7.58
8.00	26.0	10.1
10.0	16.7	12.6
12.0	11.6	15.2
14.0	8.50	17.7
16.0	6.50	20.2

Cone of Light Plot

