



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
LR2-14G-5000-35K-U55-UNI-XXXX

Order Number
10742397
Test Number
1020023

Test Date

2015-04-10

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: 4974 Lumens
Luminaire Efficacy: 97.1 lm/w
Maximum Candela: 1727 Candela

Electrical Data

Test Temperature: 25.2 °C
Voltage: 120.0 VAC
Current: 0.4275 A
Power: 51.20 W
Power Factor: 0.998
Frequency: 60 Hz
Current THD: 5.08 %

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
25.2 °C	120.0 VAC	0.4275 A	51.20 W	0.998	60 Hz	5.08 %

Summary of Results

Spacing Criteria

0-180: 1.21
90-270: 1.30

Total Lumen Output:

4974 Lumens

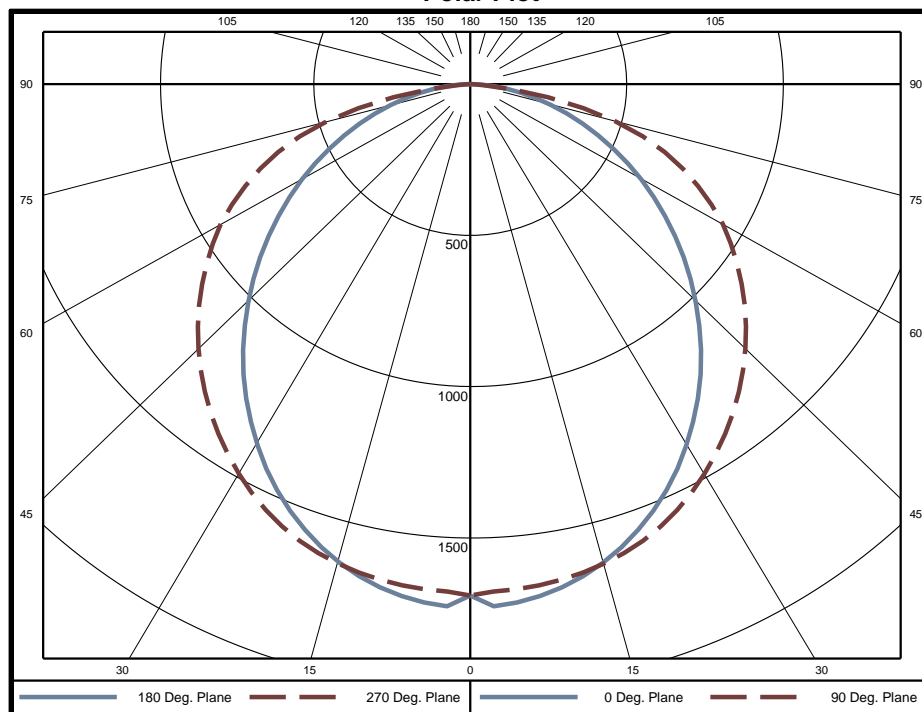
Luminaire Efficacy:

97.1 lm/w

Maximum Candela:

1727 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	42.8	0.9%	60-65	347.8	7.0%	120-125	0.0	0.0%
5-10	119.6	2.4%	65-70	299.1	6.0%	125-130	0.0	0.0%
10-15	195.0	3.9%	70-75	240.0	4.8%	130-135	0.0	0.0%
15-20	263.8	5.3%	75-80	167.6	3.4%	135-140	0.0	0.0%
20-25	323.5	6.5%	80-85	82.7	1.7%	140-145	0.0	0.0%
25-30	371.7	7.5%	85-90	15.6	0.3%	145-150	0.0	0.0%
30-35	406.9	8.2%	90-95	0.0	0.0%	150-155	0.0	0.0%
35-40	428.7	8.6%	95-100	0.0	0.0%	155-160	0.0	0.0%
40-45	436.7	8.8%	100-105	0.0	0.0%	160-165	0.0	0.0%
45-50	431.6	8.7%	105-110	0.0	0.0%	165-170	0.0	0.0%
50-55	414.4	8.3%	110-115	0.0	0.0%	170-175	0.0	0.0%
55-60	386.2	7.8%	115-120	0.0	0.0%	175-180	0.0	0.0%

Zone	Lumens	% of Luminaire
0-40	2151.9	43.3%
0-60	3820.8	76.8%
0-90	4973.5	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	1690	1690	1690	1690	1690	1690	1690	1690	1690	1690	1690	1690	1690	1690	1690	1690
5	1720	1688	1672	1676	1676	1676	1672	1688	1720	1688	1672	1676	1676	1676	1672	1688
10	1689	1661	1652	1661	1663	1661	1652	1661	1689	1661	1652	1661	1663	1661	1652	1661
15	1638	1616	1617	1635	1640	1635	1617	1616	1638	1616	1617	1635	1640	1635	1617	1616
20	1568	1554	1569	1596	1605	1596	1569	1554	1568	1554	1569	1596	1605	1596	1569	1554
25	1482	1477	1506	1541	1553	1541	1506	1477	1482	1477	1506	1541	1553	1541	1506	1477
30	1380	1385	1428	1471	1487	1471	1428	1385	1380	1385	1428	1471	1487	1471	1428	1385
35	1268	1283	1336	1388	1411	1388	1336	1283	1268	1283	1336	1388	1411	1388	1336	1283
40	1147	1171	1233	1299	1326	1299	1233	1171	1147	1171	1233	1299	1326	1299	1233	1171
45	1018	1053	1122	1202	1235	1202	1122	1053	1018	1053	1122	1202	1235	1202	1122	1053
50	890	929	1008	1100	1137	1100	1008	929	890	929	1008	1100	1137	1100	1008	929
55	759	802	891	993	1033	993	891	802	759	802	891	993	1033	993	891	802
60	631	675	774	882	926	882	774	675	631	675	774	882	926	882	774	675
65	503	551	656	760	798	760	656	551	503	551	656	760	798	760	656	551
70	382	431	534	625	657	625	534	431	382	431	534	625	657	625	534	431
75	268	316	406	466	478	466	406	316	268	316	406	466	478	466	406	316
80	164	206	261	262	251	262	261	206	164	206	261	262	251	262	261	206
85	74	95	82	53	45	53	82	95	74	95	82	53	45	53	82	95
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	5067	5067	5067
45	4318	4758	5236
55	3968	4660	5400
65	3572	4651	5658
75	3100	4706	5539
85	2558	2819	1540



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	5924	5924	5924	5924	5786	5786	5786	5786	5529	5529	5529	5293	5293	5293	5077	5077	5077	4976
1	5394	5148	4928	4730	5257	5035	4834	4653	4822	4657	4505	4627	4492	4366	4446	4338	4236	4131
2	4889	4466	4116	3821	4756	4371	4049	3775	4193	3921	3686	4028	3801	3601	3876	3688	3520	3410
3	4446	3907	3490	3157	4321	3828	3440	3128	3678	3345	3072	3539	3256	3018	3410	3170	2965	2854
4	4064	3453	3006	2664	3948	3386	2968	2644	3260	2895	2607	3142	2826	2571	3033	2761	2535	2425
5	3734	3080	2623	2286	3627	3024	2594	2273	2917	2538	2247	2817	2484	2222	2724	2432	2198	2090
6	3445	2770	2316	1991	3349	2722	2293	1982	2631	2249	1963	2546	2206	1945	2467	2164	1928	1823
7	3193	2509	2066	1755	3106	2468	2047	1749	2391	2011	1735	2318	1976	1722	2250	1943	1709	1608
8	2972	2288	1859	1564	2892	2253	1844	1559	2187	1814	1548	2124	1786	1538	2065	1758	1528	1432
9	2776	2100	1685	1406	2704	2069	1673	1402	2012	1648	1394	1957	1625	1386	1906	1602	1378	1286
10	2602	1937	1539	1273	2538	1911	1528	1270	1861	1508	1264	1813	1488	1258	1769	1469	1252	1164

Cone of Light Tabulation

Mounting Height	Footcandles at Nadir	Diameter (Feet)
4.00	106	5.02
6.00	46.9	7.53
8.00	26.4	10.0
10.0	16.9	12.6
12.0	11.7	15.1
14.0	8.62	17.6
16.0	6.60	20.1

Cone of Light Plot

