



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
LR10-14G-6200-35K-U55-UNI-XXXX
Order Number
10742397
Test Number
1020030

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.
This report shall not be reproduced, except in full, without written approval of Underwriters Laboratories.
This report must not be used by the client to claim product certification, approval, or endorsement by
NVLAP, NIST, or any agency of the Federal Government.



Luminaire Description: White steel housing / reflector, frosted plastic lens enclosure
Lamp: 144 white LEDs
Mounting: Recessed
Ballast/Driver: One Universal Everline D15CC55UNVTZ-C (@1500mA)

Luminaire



Luminaire Characteristics

Luminous Length: 47.00 in.
Luminous Width: 11.00 in.

Summary of Results

Total Luminaire Output:	5904 Lumens
Luminaire Efficacy:	95.1 lm/w
Maximum Candela:	2104 Candela

Electrical Data

Test Temperature:	25.8 °C
Voltage:	120.0 VAC
Current:	0.5198 A
Power:	62.08 W
Power Factor:	0.998
Frequency:	60 Hz
Current THD:	4.55 %

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



Distribution - Goniophotometer

Distribution Test Conditions

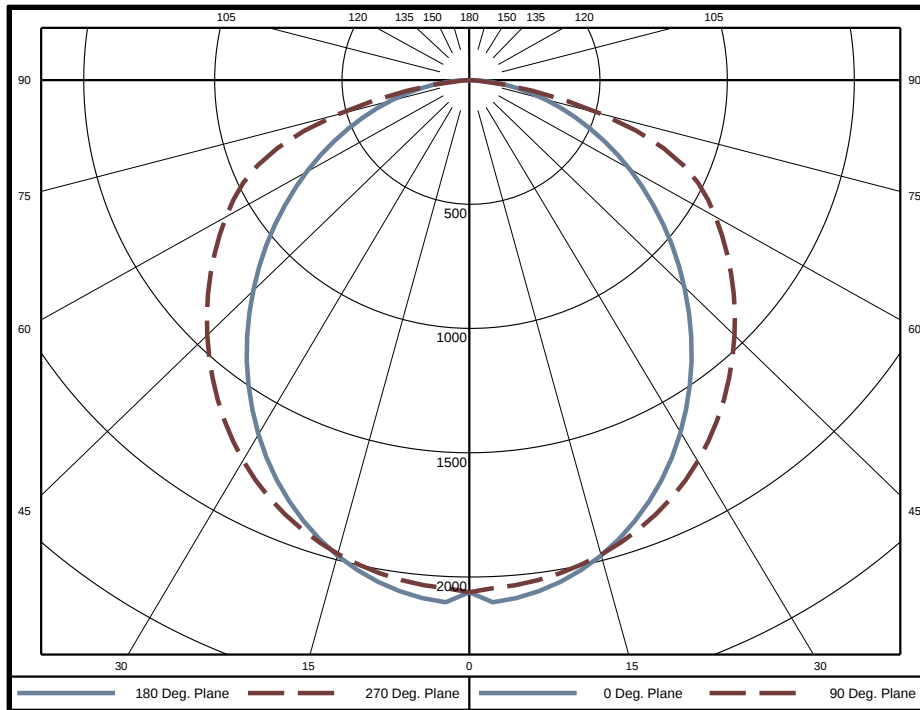
Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.8 °C	120.0 VAC	0.5198 A	62.08 W	0.998	60 Hz	4.55 %

Summary of Results

Spacing Criteria
 0-180: 1.19
 90-270: 1.28

Total Lumen Output: 5904 Lumens
Luminaire Efficacy: 95.1 lm/w
Maximum Candela: 2104 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	52.2	0.9%	60-65	414.3	7.0%	120-125	0.0	0.0%
5-10	145.3	2.5%	65-70	362.7	6.1%	125-130	0.0	0.0%
10-15	235.9	4.0%	70-75	292.4	5.0%	130-135	0.0	0.0%
15-20	317.4	5.4%	75-80	197.7	3.3%	135-140	0.0	0.0%
20-25	387.0	6.6%	80-85	93.7	1.6%	140-145	0.0	0.0%
25-30	442.4	7.5%	85-90	17.7	0.3%	145-150	0.0	0.0%
30-35	482.0	8.2%	90-95	0.0	0.0%	150-155	0.0	0.0%
35-40	505.3	8.6%	95-100	0.0	0.0%	155-160	0.0	0.0%
40-45	512.7	8.7%	100-105	0.0	0.0%	160-165	0.0	0.0%
45-50	505.6	8.6%	105-110	0.0	0.0%	165-170	0.0	0.0%
50-55	485.6	8.2%	110-115	0.0	0.0%	170-175	0.0	0.0%
55-60	454.7	7.7%	115-120	0.0	0.0%	175-180	0.0	0.0%

Zone	Lumens	% of Luminaire
0-40	2567.5	43.5%
0-60	4526.0	76.7%
0-90	5904.5	100.0%
90-180	0.0	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	2061	2061	2061	2061	2061	2061	2061	2061	2061	2061	2061	2061	2061	2061	2061	2061
	5	2093	2055	2036	2041	2041	2041	2036	2055	2093	2055	2036	2041	2041	2041	2036	2055
	10	2050	2017	2004	2013	2016	2013	2004	2017	2050	2017	2004	2013	2016	2013	2004	2017
	15	1982	1954	1951	1970	1976	1970	1951	1954	1982	1954	1951	1970	1976	1970	1951	1954
	20	1888	1868	1881	1911	1922	1911	1881	1868	1888	1868	1881	1911	1922	1911	1881	1868
	25	1776	1763	1793	1837	1855	1837	1793	1763	1776	1763	1793	1837	1855	1837	1793	1763
	30	1645	1641	1691	1749	1771	1749	1691	1641	1645	1641	1691	1749	1771	1749	1691	1641
	35	1500	1509	1577	1646	1673	1646	1577	1509	1500	1509	1577	1646	1673	1646	1577	1509
	40	1347	1368	1453	1533	1565	1533	1453	1368	1347	1368	1453	1533	1565	1533	1453	1368
	45	1189	1224	1321	1414	1452	1414	1321	1224	1189	1224	1321	1414	1452	1414	1321	1224
	50	1033	1081	1184	1291	1337	1291	1184	1081	1033	1081	1184	1291	1337	1291	1184	1081
	55	876	939	1049	1169	1219	1169	1049	939	876	939	1049	1169	1219	1169	1049	939
	60	727	799	916	1046	1101	1046	916	799	727	799	916	1046	1101	1046	916	799
	65	581	660	786	924	977	924	786	660	581	660	786	924	977	924	786	660
	70	442	524	660	772	800	772	660	524	442	524	660	772	800	772	660	524
	75	314	395	516	546	536	546	516	395	314	395	516	546	536	546	516	395
	80	194	272	310	272	249	272	310	272	194	272	310	272	249	272	310	272
	85	90	120	84	51	42	51	84	120	90	120	84	51	42	51	84	120
	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)

Vertical Angle (Degrees)	0	45	90
	0	6179	6179
	45	5040	6158
	55	4579	6370
	65	4121	6933
	75	3632	6206
	85	3079	1435



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	7033	7033	7033	7033	6870	6870	6870	6870	6564	6564	6564	6285	6285	6285	6029	6029	6029	5908
1	6405	6114	5853	5618	6243	5979	5742	5526	5727	5531	5351	5495	5335	5186	5281	5152	5032	4906
2	5806	5304	4888	4539	5648	5191	4809	4484	4979	4657	4378	4784	4515	4278	4604	4381	4181	4051
3	5281	4641	4146	3751	5132	4547	4087	3717	4369	3974	3650	4204	3868	3585	4051	3766	3523	3391
4	4828	4103	3572	3166	4690	4023	3527	3144	3873	3441	3099	3734	3359	3056	3604	3281	3014	2883
5	4436	3661	3119	2720	4310	3594	3085	2704	3467	3018	2673	3349	2954	2643	3239	2892	2614	2486
6	4095	3294	2756	2370	3980	3237	2729	2359	3129	2676	2337	3028	2624	2316	2934	2575	2295	2171
7	3796	2985	2460	2091	3692	2937	2438	2083	2845	2395	2067	2758	2353	2051	2677	2314	2036	1917
8	3534	2724	2214	1865	3440	2682	2196	1858	2603	2161	1846	2529	2128	1834	2459	2095	1823	1708
9	3302	2500	2009	1677	3217	2464	1994	1673	2396	1965	1663	2332	1937	1654	2271	1910	1645	1536
10	3096	2307	1835	1521	3019	2276	1823	1517	2217	1799	1510	2161	1775	1503	2108	1752	1496	1391

Cone of Light Tabulation

Mounting Height	Footcandles at Nadir	Diameter (Feet)
4.00	129	4.91
6.00	57.3	7.36
8.00	32.2	9.81
10.0	20.6	12.3
12.0	14.3	14.7
14.0	10.5	17.2
16.0	8.05	19.6

Cone of Light Plot

