



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
LR4-14G-6200-35K-U55-UNI-XXXX
Order Number
10742397
Test Number
1020026

Test Date

2015-04-14

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: 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:	5908 Lumens
Luminaire Efficacy:	94.3 lm/w
Maximum Candela:	2031 Candela

Electrical Data

Test Temperature:	24.7 °C
Voltage:	120.0 VAC
Current:	0.5229 A
Power:	62.65 W
Power Factor:	0.998
Frequency:	60 Hz
Current THD:	3.88 %

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



Distribution - Goniophotometer

Distribution Test Conditions

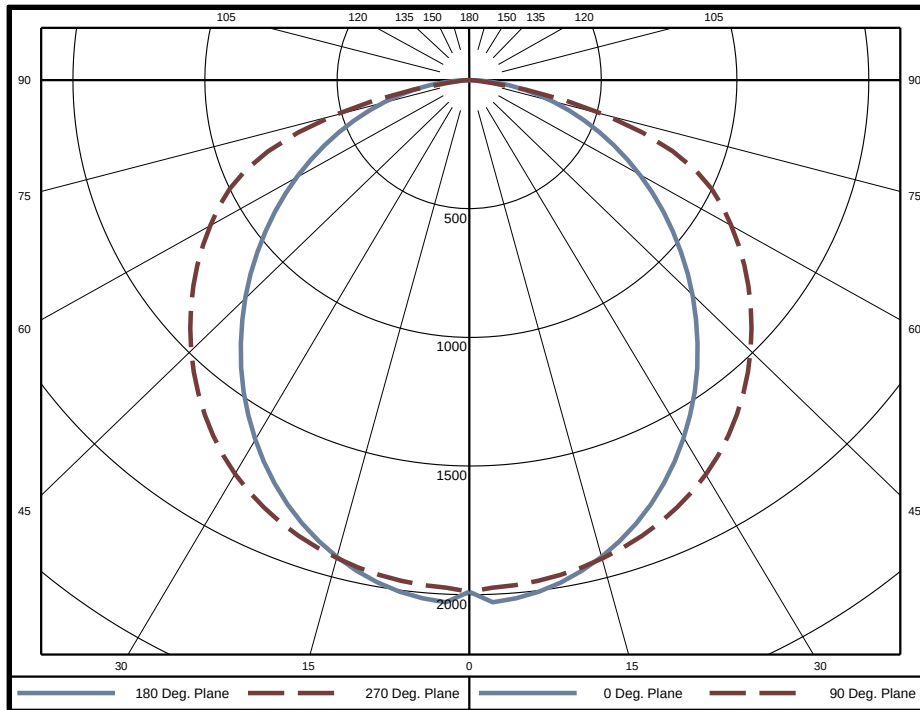
Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.7 °C	120.0 VAC	0.5229 A	62.65 W	0.998	60 Hz	3.88 %

Summary of Results

Spacing Criteria
 0-180: 1.20
 90-270: 1.32

Total Lumen Output: 5908 Lumens
Luminaire Efficacy: 94.3 lm/w
Maximum Candela: 2031 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	50.4	0.9%	60-65	425.4	7.2%	120-125	0.0	0.0%
5-10	140.5	2.4%	65-70	371.3	6.3%	125-130	0.0	0.0%
10-15	228.7	3.9%	70-75	296.2	5.0%	130-135	0.0	0.0%
15-20	308.9	5.2%	75-80	194.8	3.3%	135-140	0.0	0.0%
20-25	378.8	6.4%	80-85	83.3	1.4%	140-145	0.0	0.0%
25-30	435.9	7.4%	85-90	14.9	0.3%	145-150	0.0	0.0%
30-35	478.6	8.1%	90-95	0.0	0.0%	150-155	0.0	0.0%
35-40	506.0	8.6%	95-100	0.0	0.0%	155-160	0.0	0.0%
40-45	517.5	8.8%	100-105	0.0	0.0%	160-165	0.0	0.0%
45-50	513.9	8.7%	105-110	0.0	0.0%	165-170	0.0	0.0%
50-55	496.6	8.4%	110-115	0.0	0.0%	170-175	0.0	0.0%
55-60	466.7	7.9%	115-120	0.0	0.0%	175-180	0.0	0.0%

Zone	Lumens	% of Luminaire
0-40	2527.7	42.8%
0-60	4522.5	76.5%
0-90	5908.5	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	1988	1988	1988	1988	1988	1988	1988	1988	1988	1988	1988	1988	1988	1988	1988	1988
	5	2021	1984	1966	1971	1970	1971	1966	1984	2021	1984	1966	1971	1970	1971	1966	1984
	10	1983	1950	1939	1950	1953	1950	1939	1950	1983	1950	1939	1950	1953	1950	1939	1950
	15	1919	1893	1895	1917	1924	1917	1895	1893	1919	1893	1895	1917	1924	1917	1895	1893
	20	1834	1817	1834	1871	1885	1871	1834	1817	1834	1817	1834	1871	1885	1871	1834	1817
	25	1730	1722	1760	1812	1833	1812	1760	1722	1730	1722	1760	1812	1833	1812	1760	1722
	30	1610	1612	1672	1740	1768	1740	1672	1612	1610	1612	1672	1740	1768	1740	1672	1612
	35	1479	1491	1572	1654	1686	1654	1572	1491	1479	1491	1572	1654	1686	1654	1572	1491
	40	1336	1363	1462	1554	1591	1554	1462	1363	1336	1363	1462	1554	1591	1554	1462	1363
	45	1190	1230	1341	1442	1485	1442	1341	1230	1190	1230	1341	1442	1485	1442	1341	1230
	50	1040	1095	1211	1323	1371	1323	1211	1095	1040	1095	1211	1323	1371	1323	1211	1095
	55	892	961	1078	1199	1253	1199	1078	961	892	961	1078	1199	1253	1199	1078	961
	60	745	825	942	1071	1128	1071	942	825	745	825	942	1071	1128	1071	942	825
	65	601	686	805	941	997	941	805	686	601	686	805	941	997	941	805	686
	70	462	546	670	779	807	779	670	546	462	546	670	779	807	779	670	546
	75	330	407	514	538	529	538	514	407	330	407	514	538	529	538	514	407
	80	207	275	293	242	215	242	293	275	207	275	293	242	215	242	293	275
	85	94	113	49	33	32	33	49	113	94	113	49	33	32	33	49	113
	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	5961	5961	5961
45	5043	5684	6295
55	4661	5633	6549
65	4261	5712	7072
75	3824	5954	6130
85	3233	1669	1094



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	7038	7038	7038	7038	6874	6874	6874	6874	6568	6568	6568	6289	6289	6289	6032	6032	6032	5912
1	6411	6120	5860	5625	6248	5985	5748	5533	5732	5537	5357	5500	5341	5193	5287	5158	5038	4912
2	5807	5303	4887	4536	5649	5191	4807	4482	4979	4655	4376	4783	4513	4275	4603	4379	4179	4049
3	5277	4635	4138	3742	5128	4540	4079	3708	4362	3966	3641	4197	3860	3576	4044	3758	3514	3381
4	4821	4093	3559	3152	4683	4013	3514	3129	3863	3428	3085	3723	3346	3041	3593	3268	2999	2868
5	4427	3648	3103	2702	4300	3581	3069	2686	3453	3002	2655	3335	2938	2626	3224	2876	2596	2468
6	4083	3278	2738	2350	3968	3221	2711	2339	3113	2657	2317	3012	2606	2296	2918	2557	2275	2150
7	3783	2968	2440	2070	3679	2920	2418	2062	2827	2375	2046	2741	2334	2030	2660	2294	2015	1895
8	3520	2706	2194	1843	3426	2664	2176	1837	2585	2141	1825	2511	2107	1813	2440	2075	1801	1686
9	3287	2482	1989	1656	3202	2446	1974	1651	2378	1945	1642	2313	1917	1632	2252	1889	1623	1513
10	3082	2289	1815	1499	3005	2258	1802	1496	2198	1778	1488	2142	1755	1481	2089	1732	1474	1369

Cone of Light Tabulation

Mounting Height	Footcandles at Nadir	Diameter (Feet)
4.00	124	5.02
6.00	55.2	7.53
8.00	31.1	10.0
10.0	19.9	12.6
12.0	13.8	15.1
14.0	10.1	17.6
16.0	7.77	20.1

Cone of Light Plot

