



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
LR4-24G-6200-35K-U55-UNI-XXXX
Order Number
10761618
Test Number
1105062

Test Date

2015-06-12

Prepared By

Derek Smarr, Technician

Approved By

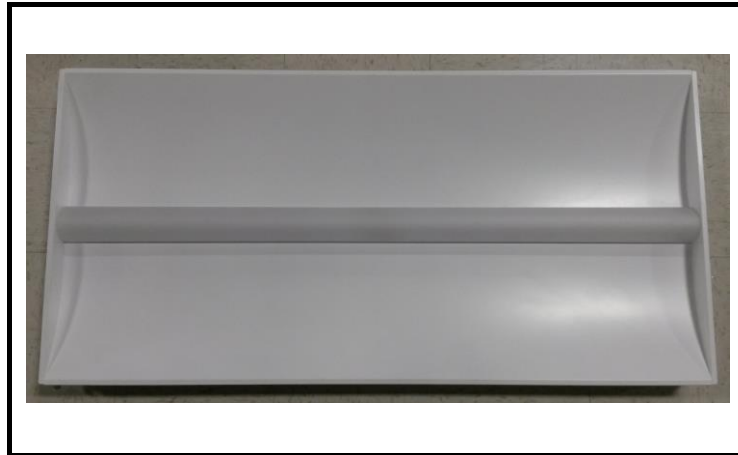
Kyle Spaziani, Project Handler

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Luminaire Description: White steel housing / reflector, frosted plastic lens enclosure
Lamp: 112 white LEDs
Mounting: Recessed
Ballast/Driver: One Universal Everline D10CC55UNVTZ-C (@1500mA)

Luminaire



Luminaire Characteristics

Luminous Length: 47.00 in.
Luminous Width: 22.75 in.

Summary of Results

Total Luminaire Output: 5678 Lumens
Luminaire Efficacy: 90 lm/w
Maximum Candela: 1815 Candela

Electrical Data

Test Temperature: 24.9 °C
Voltage: 120.0 VAC
Current: 0.5263 A
Power: 63.08 W
Power Factor: 0.999
Frequency: 60 Hz
Current THD: 4.04 %

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	0.5263 A	63.08 W	0.999	60 Hz	4.04 %

Summary of Results

Spacing Criteria

0-180: 1.17

90-270: 1.17

Total Lumen Output:

5678 Lumens

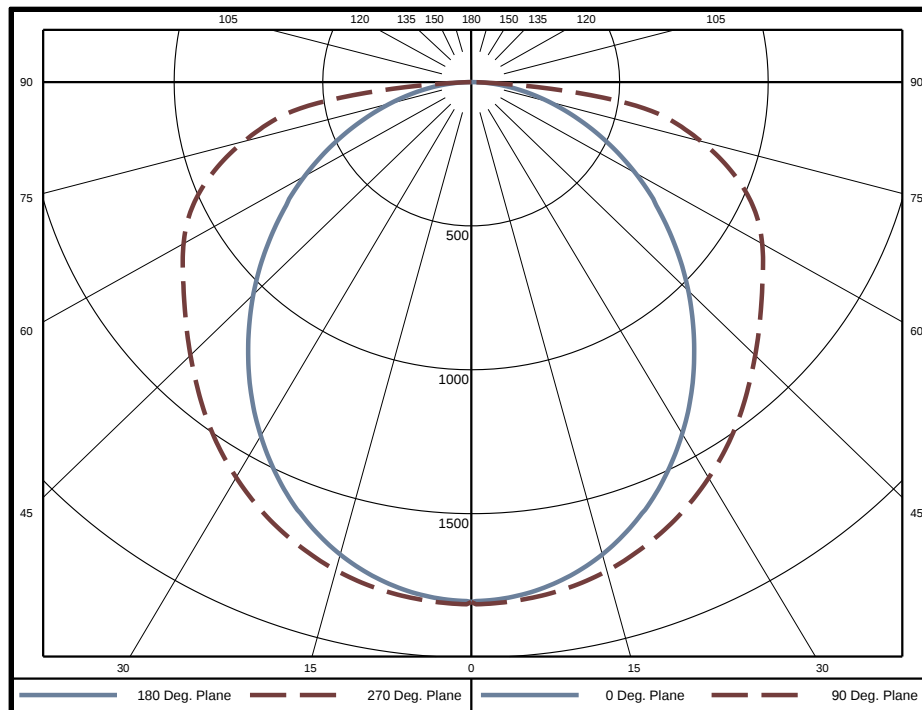
Luminaire Efficacy:

90.0 lm/w

Maximum Candela:

1815 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	43.1	0.8%	60-65	405.2	7.1%	120-125	0	0.0%
5-10	127.7	2.2%	65-70	374.0	6.6%	125-130	0	0.0%
10-15	207.5	3.7%	70-75	331.0	5.8%	130-135	0	0.0%
15-20	279.6	4.9%	75-80	273.9	4.8%	135-140	0	0.0%
20-25	341.4	6.0%	80-85	188.1	3.3%	140-145	0	0.0%
25-30	391.0	6.9%	85-90	47.9	0.8%	145-150	0	0.0%
30-35	427.3	7.5%	90-95	0	0.0%	150-155	0	0.0%
35-40	449.9	7.9%	95-100	0	0.0%	155-160	0	0.0%
40-45	459.3	8.1%	100-105	0	0.0%	160-165	0	0.0%
45-50	457.2	8.1%	105-110	0	0.0%	165-170	0	0.0%
50-55	445.6	7.8%	110-115	0	0.0%	170-175	0	0.0%
55-60	428.1	7.5%	115-120	0	0.0%	175-180	0	0.0%

Zone	Lumens	% of Luminaire
0-40	2268	39.9%
0-60	4058	71.5%
0-90	5678	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	1807	1807	1807	1807	1807	1807	1807	1807	1807	1807	1807	1807	1807	1807	1807
	5	1791	1797	1796	1797	1808	1797	1796	1797	1791	1797	1796	1797	1808	1797	1796
	10	1757	1764	1770	1777	1789	1777	1770	1764	1757	1764	1770	1777	1789	1777	1770
	15	1701	1711	1726	1741	1757	1741	1726	1711	1701	1711	1726	1741	1757	1741	1726
	20	1623	1638	1666	1692	1711	1692	1666	1638	1623	1638	1666	1692	1711	1692	1666
	25	1528	1548	1589	1630	1654	1630	1589	1548	1528	1548	1589	1630	1654	1630	1589
	30	1418	1443	1501	1556	1586	1556	1501	1443	1418	1443	1501	1556	1586	1556	1501
	35	1297	1328	1402	1474	1509	1474	1402	1328	1297	1328	1402	1474	1509	1474	1402
	40	1167	1206	1297	1384	1425	1384	1297	1206	1167	1206	1297	1384	1425	1384	1297
	45	1036	1079	1188	1292	1339	1292	1188	1079	1036	1079	1188	1292	1339	1292	1188
	50	902	952	1077	1203	1258	1203	1077	952	902	952	1077	1203	1258	1203	1077
	55	769	826	970	1122	1186	1122	970	826	769	826	970	1122	1186	1122	970
	60	643	711	875	1053	1119	1053	875	711	643	711	875	1053	1119	1053	875
	65	515	595	797	980	1040	980	797	595	515	595	797	980	1040	980	797
	70	392	492	726	878	929	878	726	492	392	492	726	878	929	878	726
	75	278	403	618	746	792	746	618	403	278	403	618	746	792	746	618
	80	176	314	471	588	633	588	471	314	176	314	471	588	633	588	471
	85	85	182	259	271	266	271	259	182	85	182	259	271	266	271	259
	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	2619	2619
	45	2125	2746
	55	1943	2997
	65	1766	3566
	75	1559	4435
	85	1418	4428



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	6759	6759	6759	6759	6602	6602	6602	6602	6309	6309	6309	6040	6040	6040	5794	5794	5794	5678
1	6077	5764	5484	5231	5917	5633	5376	5144	5386	5174	4980	5160	4986	4825	4952	4811	4680	4554
2	5478	4957	4525	4163	5321	4846	4449	4112	4639	4303	4013	4448	4167	3919	4272	4038	3830	3698
3	4966	4314	3810	3408	4818	4222	3753	3376	4047	3645	3314	3886	3542	3254	3736	3445	3195	3063
4	4532	3802	3267	2859	4395	3724	3224	2838	3577	3141	2796	3441	3062	2756	3314	2987	2717	2586
5	4159	3386	2845	2446	4035	3320	2811	2431	3196	2747	2403	3080	2685	2375	2972	2626	2347	2220
6	3837	3042	2508	2126	3724	2986	2482	2115	2881	2431	2095	2783	2381	2075	2691	2334	2055	1932
7	3555	2754	2235	1872	3453	2707	2214	1864	2617	2173	1849	2533	2133	1834	2454	2094	1819	1702
8	3309	2512	2010	1666	3217	2471	1993	1660	2394	1959	1649	2322	1926	1638	2253	1895	1626	1514
9	3091	2304	1822	1497	3008	2270	1808	1493	2203	1780	1484	2140	1753	1475	2081	1727	1466	1359
10	2899	2126	1664	1356	2824	2096	1652	1353	2038	1628	1346	1984	1606	1339	1932	1584	1332	1230

Cone of Light Tabulation

Mounting Height	Footcandles at Nadir	Diameter (Feet)
4.00	113	4.94
6.00	50.2	7.42
8.00	28.2	9.89
10.0	18.1	12.4
12.0	12.5	14.8
14.0	9.22	17.3
16.0	7.06	19.8

Cone of Light Plot

