



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
LR34-22G-4600-35K-HTA-U55-UNI-XXXX
Order Number
10888052
Test Number
1133386

Test Date

2015-07-24

Prepared By

Derek Smarr, 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, frosted plastic lens
Lamp: 112 white LEDs
Mounting: Recessed
Ballast/Driver: One Universal Everline D10CC55UNVTZ-C

Luminaire



Luminaire Characteristics

Luminous Length: 21.75 in.
Luminous Width: 21.75 in.

Summary of Results

Total Luminaire Output: 4571 Lumens
Luminaire Efficacy: 87.4 lm/w
Maximum Candela: 1733 Candela

Electrical Data

Test Temperature: 25.1 °C
Voltage: 120.0 VAC
Current: 0.4366 A
Power: 52.29 W
Power Factor: 0.998
Frequency: 60 Hz
Current THD: 4.75 %

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
25.1 °C	120.0 VAC	0.4366 A	52.29 W	0.998	60 Hz	4.75 %

Summary of Results

Spacing Criteria

0-180: 1.20
90-270: 1.20

Total Lumen Output:

4571 Lumens

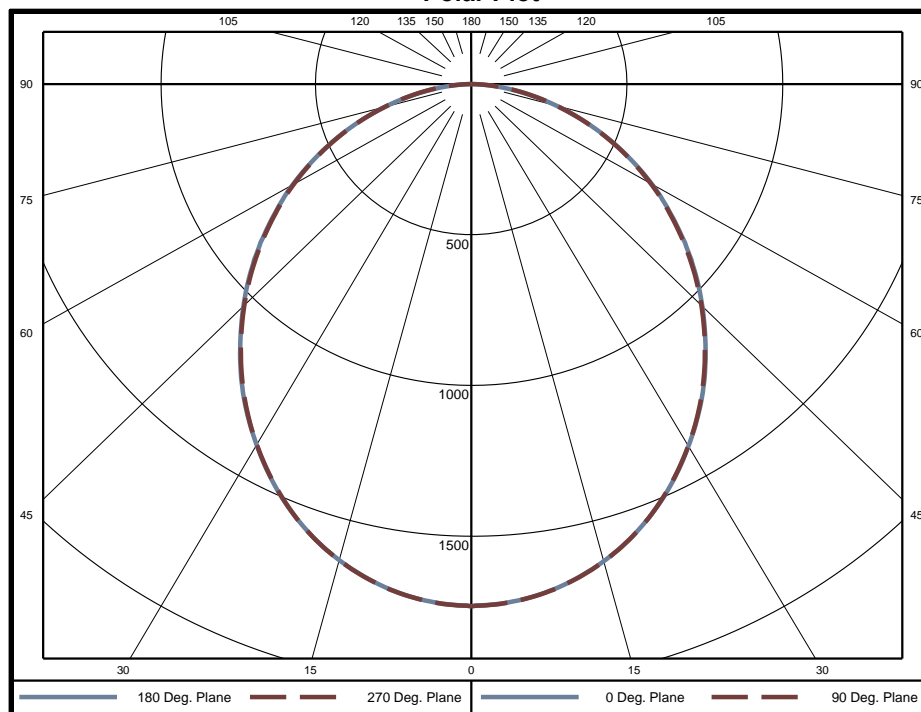
Luminaire Efficacy:

87.4 lm/w

Maximum Candela:

1733 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	41.3	0.9%	60-65	295.0	6.5%	120-125	0	0.0%
5-10	122.1	2.7%	65-70	242.2	5.3%	125-130	0	0.0%
10-15	197.7	4.3%	70-75	184.0	4.0%	130-135	0	0.0%
15-20	265.0	5.8%	75-80	124.7	2.7%	135-140	0	0.0%
20-25	321.4	7.0%	80-85	67.7	1.5%	140-145	0	0.0%
25-30	364.6	8.0%	85-90	19.2	0.4%	145-150	0	0.0%
30-35	394.2	8.6%	90-95	0	0.0%	150-155	0	0.0%
35-40	409.5	9.0%	95-100	0	0.0%	155-160	0	0.0%
40-45	410.3	9.0%	100-105	0	0.0%	160-165	0	0.0%
45-50	398.5	8.7%	105-110	0	0.0%	165-170	0	0.0%
50-55	374.3	8.2%	110-115	0	0.0%	170-175	0	0.0%
55-60	339.4	7.4%	115-120	0	0.0%	175-180	0	0.0%

Zone	Lumens	% of Luminaire
0-40	2116	46.3%
0-60	3638	79.6%
0-90	4571	100.0%
90-180	0	0.0%



Candela Tabulation
Horizontal Angle (Degrees)

Vertical Angle (Degrees)	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	1732	1732	1732	1732	1732	1732	1732	1732	1732	1732	1732	1732	1732	1732	1732	1732
5	1720	1722	1722	1723	1720	1723	1722	1722	1720	1722	1722	1723	1720	1723	1722	1722
10	1689	1692	1692	1692	1689	1692	1692	1692	1689	1692	1692	1692	1689	1692	1692	1692
15	1639	1642	1642	1643	1640	1643	1642	1642	1639	1642	1642	1643	1640	1643	1642	1642
20	1572	1575	1575	1575	1572	1575	1575	1575	1572	1575	1575	1575	1572	1575	1575	1575
25	1489	1491	1490	1490	1488	1490	1490	1491	1489	1491	1490	1490	1488	1490	1490	1491
30	1391	1393	1393	1392	1390	1392	1393	1393	1391	1393	1393	1392	1390	1392	1393	1393
35	1286	1287	1286	1286	1283	1286	1286	1287	1286	1287	1286	1286	1283	1286	1286	1287
40	1170	1171	1170	1169	1165	1169	1170	1171	1170	1171	1170	1169	1165	1169	1170	1171
45	1049	1050	1048	1047	1045	1047	1048	1050	1049	1050	1048	1047	1045	1047	1048	1050
50	926	927	925	924	920	924	925	927	926	927	925	924	920	924	925	927
55	798	799	798	797	794	797	798	799	798	799	798	797	794	797	798	799
60	673	674	672	671	668	671	672	674	673	674	672	671	668	671	672	674
65	543	544	546	542	540	542	546	544	543	544	546	542	540	542	546	544
70	414	415	418	414	413	414	418	415	414	415	418	414	413	414	418	415
75	290	294	290	291	290	291	290	294	290	294	290	291	290	291	290	294
80	174	177	177	178	177	178	177	177	174	177	177	178	177	178	177	177
85	72	74	76	78	78	78	76	74	72	74	76	78	78	78	76	74
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)	Horizontal Angle (Degrees)		
	0	45	90
0	5676	5676	5676
45	4861	4857	4841
55	4559	4558	4533
65	4207	4229	4183
75	3665	3677	3666
85	2699	2855	2923



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	5442	5442	5442	5442	5315	5315	5315	5315	5079	5079	5079	4863	4863	4863	4664	4664	4664	4571
1	4975	4758	4564	4389	4851	4654	4477	4317	4460	4314	4180	4281	4162	4052	4116	4021	3932	3836
2	4529	4154	3844	3584	4409	4068	3783	3541	3906	3666	3458	3756	3555	3379	3617	3452	3304	3205
3	4133	3654	3283	2988	4020	3582	3238	2961	3446	3151	2908	3319	3068	2857	3202	2990	2808	2708
4	3788	3243	2844	2539	3683	3182	2809	2521	3067	2743	2486	2961	2680	2452	2862	2619	2419	2320
5	3487	2902	2494	2192	3391	2851	2467	2180	2754	2415	2156	2664	2366	2132	2579	2318	2109	2012
6	3223	2617	2210	1918	3135	2573	2189	1910	2491	2148	1892	2414	2109	1875	2342	2071	1859	1765
7	2991	2376	1977	1698	2912	2339	1960	1692	2268	1927	1679	2202	1895	1667	2140	1865	1654	1564
8	2786	2171	1784	1518	2715	2139	1770	1513	2078	1743	1504	2022	1717	1494	1968	1692	1485	1398
9	2605	1995	1621	1369	2540	1967	1610	1365	1915	1587	1358	1866	1566	1350	1819	1545	1343	1260
10	2444	1842	1483	1243	2385	1819	1473	1240	1773	1455	1235	1730	1436	1229	1690	1419	1223	1144

Cone of Light Tabulation

Mounting Height	Footcandles at Nadir	Diameter (Feet)
4.00	108	4.80
6.00	48.1	7.19
8.00	27.1	9.59
10.0	17.3	12.0
12.0	12.0	14.4
14.0	8.84	16.8
16.0	6.77	19.2

Cone of Light Plot

