



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
United States

Catalog Number
LR5T-22G-5200-35K-U55-UNI-XXXX

Order Number
11163500
Test Number
1213221

Test Date

2016-02-24

Prepared By

Derek Smarr, 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

Luminaire



Luminaire Characteristics

Luminous Length: 23.00 in.
Luminous Width: 23.00 in.

Summary of Results

Total Luminaire Output: 5212 Lumens
Luminaire Efficacy: 100.6 lm/w
Maximum Candela: 1884 Candela

Electrical Data

Test Temperature: 25.1 °C
Voltage: 120.0 VAC
Current: 0.4325 A
Power: 51.80 W
Power Factor: 0.998
Frequency: 60 Hz
Current THD: 5.35 %

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	0.4325 A	51.80 W	0.998	60 Hz	5.35 %

Summary of Results

Spacing Criteria

0-180: 1.16
90-270: 1.16

Total Lumen Output:

5212 Lumens

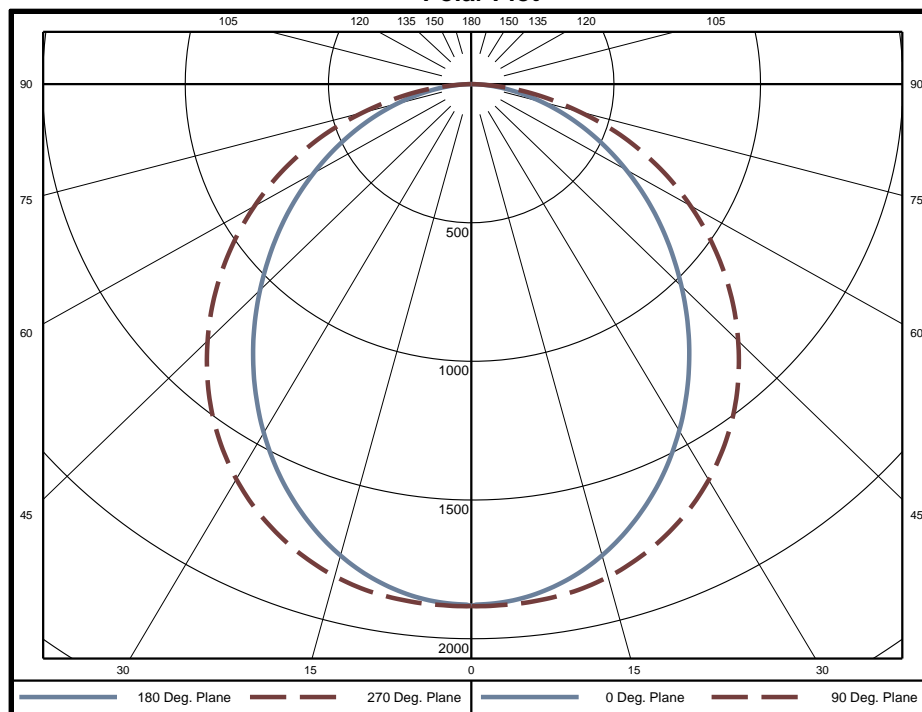
Luminaire Efficacy:

100.6 lm/w

Maximum Candela:

1884 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	44.9	0.9%	60-65	344.0	6.6%	120-125	0	0.0%
5-10	133.2	2.6%	65-70	287.0	5.5%	125-130	0	0.0%
10-15	216.7	4.2%	70-75	222.4	4.3%	130-135	0	0.0%
15-20	292.0	5.6%	75-80	152.2	2.9%	135-140	0	0.0%
20-25	356.3	6.8%	80-85	83.9	1.6%	140-145	0	0.0%
25-30	407.2	7.8%	85-90	20.5	0.4%	145-150	0	0.0%
30-35	443.2	8.5%	90-95	0	0.0%	150-155	0	0.0%
35-40	463.2	8.9%	95-100	0	0.0%	155-160	0	0.0%
40-45	467.0	9.0%	100-105	0	0.0%	160-165	0	0.0%
45-50	455.7	8.7%	105-110	0	0.0%	165-170	0	0.0%
50-55	430.4	8.3%	110-115	0	0.0%	170-175	0	0.0%
55-60	392.6	7.5%	115-120	0	0.0%	175-180	0	0.0%

Zone	Lumens	% of Luminaire
0-40	2357	45.2%
0-60	4102	78.7%
0-90	5212	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	1882	1882	1882	1882	1882	1882	1882	1882	1882	1882	1882	1882	1882	1882	1882	1882
5	1865	1873	1874	1876	1880	1876	1874	1873	1865	1873	1874	1876	1880	1876	1874	1873
10	1825	1838	1850	1860	1867	1860	1850	1838	1825	1838	1850	1860	1867	1860	1850	1838
15	1761	1780	1807	1828	1839	1828	1807	1780	1761	1780	1807	1828	1839	1828	1807	1780
20	1674	1703	1744	1777	1792	1777	1744	1703	1674	1703	1744	1777	1792	1777	1744	1703
25	1570	1608	1665	1709	1728	1709	1665	1608	1570	1608	1665	1709	1728	1709	1665	1608
30	1450	1499	1569	1624	1647	1624	1569	1499	1450	1499	1569	1624	1647	1624	1569	1499
35	1320	1377	1462	1525	1549	1525	1462	1377	1320	1377	1462	1525	1549	1525	1462	1377
40	1182	1247	1342	1410	1436	1410	1342	1247	1182	1247	1342	1410	1436	1410	1342	1247
45	1041	1112	1213	1284	1308	1284	1213	1112	1041	1112	1213	1284	1308	1284	1213	1112
50	902	976	1078	1148	1173	1148	1078	976	902	976	1078	1148	1173	1148	1078	976
55	766	840	939	1006	1028	1006	939	840	766	840	939	1006	1028	1006	939	840
60	631	704	797	860	877	860	797	704	631	704	797	860	877	860	797	704
65	502	571	656	711	724	711	656	571	502	571	656	711	724	711	656	571
70	379	443	518	556	564	556	518	443	379	443	518	556	564	556	518	443
75	264	319	375	393	392	393	375	319	264	319	375	393	392	393	375	319
80	159	203	231	238	240	238	231	203	159	203	231	238	240	238	231	203
85	70	89	98	98	97	98	98	89	70	89	98	98	97	98	98	89
90	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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	5514	5514	5514
45	4315	5028	5421
55	3912	4795	5251
65	3480	4545	5021
75	2987	4247	4439
85	2338	3279	3269



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	6205	6205	6205	6205	6061	6061	6061	6061	5792	5792	5792	5545	5545	5545	5319	5319	5319	5212
1	5664	5413	5187	4984	5521	5294	5089	4903	5072	4903	4748	4868	4730	4602	4679	4569	4465	4355
2	5149	4716	4357	4056	5011	4617	4287	4007	4431	4153	3913	4260	4028	3824	4101	3909	3738	3624
3	4693	4140	3713	3372	4563	4058	3661	3341	3902	3561	3281	3757	3467	3223	3623	3378	3168	3053
4	4297	3669	3209	2858	4177	3599	3170	2837	3468	3094	2798	3346	3022	2759	3232	2953	2722	2608
5	3953	3280	2809	2462	3843	3221	2779	2448	3110	2720	2421	3006	2663	2394	2910	2609	2368	2257
6	3651	2954	2486	2151	3551	2904	2462	2141	2810	2415	2121	2722	2370	2102	2639	2327	2083	1975
7	3386	2680	2222	1901	3296	2637	2202	1893	2557	2165	1879	2481	2128	1865	2410	2093	1851	1747
8	3153	2447	2002	1697	3071	2410	1986	1691	2341	1955	1680	2276	1926	1670	2214	1897	1659	1560
9	2947	2247	1818	1528	2873	2215	1804	1524	2155	1779	1515	2099	1754	1507	2046	1730	1499	1403
10	2764	2074	1661	1386	2697	2047	1650	1383	1995	1629	1376	1946	1608	1370	1899	1588	1364	1272

Cone of Light Tabulation

Mounting Height	Footcandles at Nadir	Diameter (Feet)
4.00	118	4.93
6.00	52.3	7.40
8.00	29.4	9.86
10.0	18.8	12.3
12.0	13.1	14.8
14.0	9.60	17.3
16.0	7.35	19.7

Cone of Light Plot

