



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

John Andrews
20 Audrey Pl
Fairfield, NJ 07004-3416

Catalog Number
LR14-22G-2600-35K-U30-UNI-XXXX

Order Number
10740370
Test Number
1020062

Test Date

2015-04-16

Prepared By

Barry Mello Jr., 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: 56 white LEDs
Mounting: Recessed
Ballast/Driver: One Universal Everline D10CC30UNVTZ-C (@1050mA)

Luminaire



Luminaire Characteristics

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

Summary of Results

Total Luminaire Output: 2503 Lumens
Luminaire Efficacy: 93.9 lm/w
Maximum Candela: 823 Candela

Electrical Data

Test Temperature: 24.2 °C
Voltage: 120.0 VAC
Current: 0.2230 A
Power: 26.67 W
Power Factor: 0.997
Frequency: 60 Hz
Current THD: 5.70 %

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
24.2 °C	120.0 VAC	0.2230 A	26.67 W	0.997	60 Hz	5.70 %

Summary of Results

Spacing Criteria

0-180: 1.19

90-270: 1.30

Total Lumen Output:

2503 Lumens

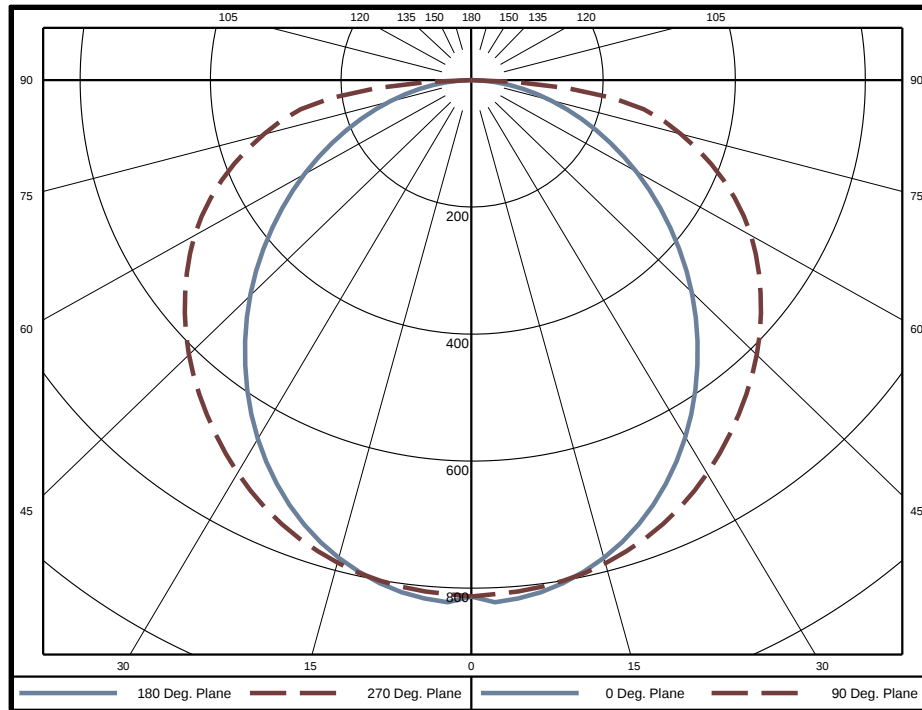
Luminaire Efficacy:

93.9 lm/w

Maximum Candela:

823 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	20.6	0.8%	60-65	175.1	7.0%	120-125	0.0	0.0%
5-10	57.5	2.3%	65-70	156.2	6.2%	125-130	0.0	0.0%
10-15	93.5	3.7%	70-75	133.5	5.3%	130-135	0.0	0.0%
15-20	126.1	5.0%	75-80	107.4	4.3%	135-140	0.0	0.0%
20-25	154.2	6.2%	80-85	74.1	3.0%	140-145	0.0	0.0%
25-30	176.8	7.1%	85-90	25.3	1.0%	145-150	0.0	0.0%
30-35	193.3	7.7%	90-95	0.0	0.0%	150-155	0.0	0.0%
35-40	203.7	8.1%	95-100	0.0	0.0%	155-160	0.0	0.0%
40-45	208.3	8.3%	100-105	0.0	0.0%	160-165	0.0	0.0%
45-50	207.1	8.3%	105-110	0.0	0.0%	165-170	0.0	0.0%
50-55	200.6	8.0%	110-115	0.0	0.0%	170-175	0.0	0.0%
55-60	189.9	7.6%	115-120	0.0	0.0%	175-180	0.0	0.0%

Zone	Lumens	% of Luminaire
0-40	1025.9	41.0%
0-60	1831.7	73.2%
0-90	2503.3	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	813	813	813	813	813	813	813	813	813	813	813	813	813	813	813
	5	819	808	807	809	809	809	807	808	819	808	807	809	809	809	808
	10	804	794	796	800	801	800	796	794	804	794	796	800	801	800	794
	15	779	771	777	785	787	785	777	771	779	771	777	785	787	785	777
	20	745	740	750	764	768	764	750	740	745	740	750	764	768	764	750
	25	702	700	717	737	744	737	717	700	702	700	717	737	744	737	717
	30	651	653	678	704	714	704	678	653	651	653	678	704	714	704	678
	35	595	601	633	668	681	668	633	601	595	601	633	668	681	668	633
	40	536	545	585	629	646	629	585	545	536	545	585	629	646	629	585
	45	476	488	535	588	610	588	535	488	476	488	535	588	610	588	535
	50	414	428	484	546	571	546	484	428	414	428	484	546	571	546	484
	55	352	369	433	502	530	502	433	369	352	369	433	502	530	502	433
	60	292	312	384	458	488	458	384	312	292	312	384	458	488	458	384
	65	234	258	335	410	439	410	335	258	234	258	335	410	439	410	335
	70	179	207	286	355	385	355	286	207	179	207	286	355	385	355	286
	75	127	159	231	297	327	297	231	159	127	159	231	297	327	297	231
	80	80	111	172	235	265	235	172	111	80	111	172	235	265	235	172
	85	37	59	100	132	146	132	100	59	37	59	100	132	146	132	100
	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	2383	2383
	45	1972	2528
	55	1797	2709
	65	1621	3042
	75	1442	3704
	85	1256	4912



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	2984	2984	2984	2984	2914	2914	2914	2914	2785	2785	2785	2666	2666	2666	2558	2558	2558	2506
1	2690	2555	2434	2325	2620	2497	2387	2286	2389	2297	2213	2289	2214	2145	2197	2137	2080	2025
2	2430	2204	2017	1860	2361	2156	1984	1838	2065	1919	1794	1981	1859	1752	1903	1802	1712	1655
3	2206	1922	1703	1529	2141	1882	1678	1515	1805	1631	1487	1734	1585	1460	1669	1542	1434	1376
4	2014	1696	1463	1286	1954	1662	1444	1276	1598	1408	1258	1538	1373	1240	1482	1340	1222	1165
5	1850	1512	1276	1101	1795	1483	1261	1095	1428	1232	1082	1378	1205	1070	1330	1179	1058	1002
6	1706	1359	1125	958	1657	1334	1114	953	1288	1091	944	1245	1069	935	1204	1049	927	873
7	1581	1231	1003	844	1537	1210	994	841	1170	976	834	1133	958	827	1099	941	821	769
8	1472	1122	902	752	1431	1104	895	749	1071	880	744	1039	865	739	1009	852	734	685
9	1375	1030	818	675	1339	1014	812	673	985	800	670	958	788	666	932	776	662	615
10	1289	950	747	612	1256	937	742	610	911	731	607	887	721	604	865	712	601	556

Cone of Light Tabulation

Mounting Height	Footcandles at Nadir	Diameter (Feet)
4.00	50.8	4.97
6.00	22.6	7.46
8.00	12.7	9.94
10.0	8.13	12.4
12.0	5.65	14.9
14.0	4.15	17.4
16.0	3.18	19.9

Cone of Light Plot

