



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
LR4-22G-2600-35K-U30-UNI-XXXX

Order Number
10740370
Test Number
1020059

Test Date

2015-04-15

Prepared By

Barry Mello Jr., Technician

Approved By

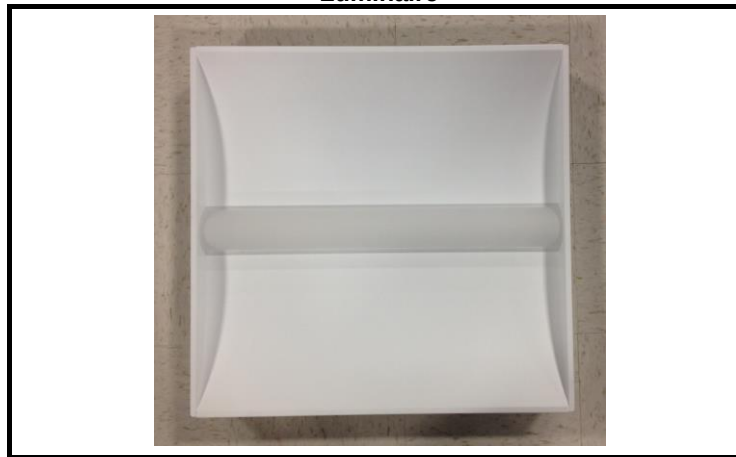
Kyle Spaziani, Project Handler

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 / 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:	2494 Lumens
Luminaire Efficacy:	90.5 lm/w
Maximum Candela:	814 Candela

Electrical Data

Test Temperature:	24.9 °C
Voltage:	120.1 VAC
Current:	0.2302 A
Power:	27.56 W
Power Factor:	0.997
Frequency:	60 Hz
Current THD:	5.46 %

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



Distribution - Goniophotometer

Distribution Test Conditions

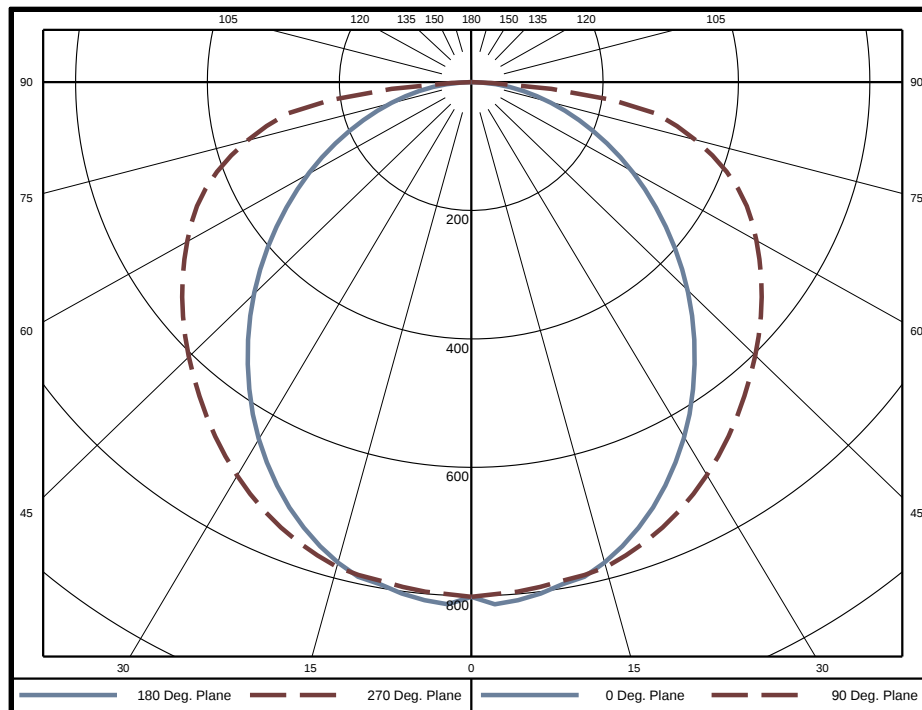
Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.9 °C	120.1 VAC	0.2302 A	27.56 W	0.997	60 Hz	5.46 %

Summary of Results

Spacing Criteria
 0-180: 1.19
 90-270: 1.31

Total Lumen Output: 2494 Lumens
Luminaire Efficacy: 90.5 lm/w
Maximum Candela: 814 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	20.3	0.8%	60-65	176.3	7.1%	120-125	0.0	0.0%
5-10	56.7	2.3%	65-70	160.6	6.4%	125-130	0.0	0.0%
10-15	92.7	3.7%	70-75	140.3	5.6%	130-135	0.0	0.0%
15-20	125.1	5.0%	75-80	114.0	4.6%	135-140	0.0	0.0%
20-25	152.6	6.1%	80-85	75.6	3.0%	140-145	0.0	0.0%
25-30	174.6	7.0%	85-90	19.5	0.8%	145-150	0.0	0.0%
30-35	190.6	7.6%	90-95	0.0	0.0%	150-155	0.0	0.0%
35-40	200.5	8.0%	95-100	0.0	0.0%	155-160	0.0	0.0%
40-45	204.6	8.2%	100-105	0.0	0.0%	160-165	0.0	0.0%
45-50	203.6	8.2%	105-110	0.0	0.0%	165-170	0.0	0.0%
50-55	198.0	7.9%	110-115	0.0	0.0%	170-175	0.0	0.0%
55-60	188.7	7.6%	115-120	0.0	0.0%	175-180	0.0	0.0%

Zone	Lumens	% of Luminaire
0-40	1013.1	40.6%
0-60	1808.0	72.5%
0-90	2494.4	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	802	802	802	802	802	802	802	802	802	802	802	802	802	802	802	802
	5	810	796	795	798	797	798	795	796	810	796	795	798	797	798	795	796
	10	794	786	788	790	789	790	788	786	794	786	788	790	789	790	788	786
	15	775	764	771	780	782	780	771	764	775	764	771	780	782	780	771	764
	20	738	731	743	758	763	758	743	731	738	731	743	758	763	758	743	731
	25	693	689	709	730	738	730	709	689	693	689	709	730	738	730	709	689
	30	641	641	669	697	707	697	669	641	641	641	669	697	707	697	669	641
	35	584	588	624	660	674	660	624	588	584	588	624	660	674	660	624	588
	40	524	533	576	621	638	621	576	533	524	533	576	621	638	621	576	533
	45	463	476	526	581	603	581	526	476	463	476	526	581	603	581	526	476
	50	401	417	476	542	568	542	476	417	401	417	476	542	568	542	476	417
	55	340	361	428	502	532	502	428	361	340	361	428	502	532	502	428	361
	60	282	307	384	463	495	463	384	307	282	307	384	463	495	463	384	307
	65	226	255	341	424	457	424	341	255	226	255	341	424	457	424	341	255
	70	173	208	300	377	408	377	300	208	173	208	300	377	408	377	300	208
	75	124	164	250	318	349	318	250	164	124	164	250	318	349	318	250	164
	80	80	118	185	249	282	249	185	118	80	118	185	249	282	249	185	118
	85	37	59	97	116	121	116	97	59	37	59	97	116	121	116	97	59
	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)		0	45	90
	0	2349	2349	2349
	45	1917	2181	2500
	55	1738	2188	2717
	65	1568	2365	3166
	75	1409	2829	3951
	85	1254	3255	4057



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	2970	2970	2970	2970	2901	2901	2901	2901	2772	2772	2772	2654	2654	2654	2546	2546	2546	2495
1	2677	2542	2421	2312	2607	2484	2374	2274	2376	2285	2202	2277	2203	2133	2186	2126	2069	2014
2	2415	2190	2003	1846	2347	2141	1969	1823	2051	1905	1780	1967	1845	1738	1890	1789	1699	1642
3	2191	1908	1689	1514	2127	1868	1664	1500	1791	1617	1473	1721	1571	1446	1655	1529	1420	1363
4	2000	1683	1450	1272	1941	1649	1431	1263	1584	1395	1244	1525	1360	1227	1469	1327	1209	1152
5	1837	1499	1263	1089	1782	1470	1249	1083	1416	1220	1070	1365	1193	1058	1318	1167	1046	990
6	1694	1347	1114	947	1645	1323	1103	943	1277	1080	934	1234	1058	925	1193	1038	916	862
7	1570	1220	993	834	1526	1199	984	831	1160	966	824	1123	948	818	1089	931	811	760
8	1461	1113	893	743	1421	1095	886	740	1061	871	735	1029	857	730	1000	843	725	676
9	1365	1021	810	668	1329	1006	804	666	976	791	662	949	780	658	923	768	654	607
10	1280	942	740	605	1247	929	734	603	903	724	600	880	714	597	857	704	594	549

Cone of Light Tabulation

Mounting Height	Footcandles at Nadir	Diameter (Feet)
4.00	50.1	4.97
6.00	22.3	7.46
8.00	12.5	9.94
10.0	8.02	12.4
12.0	5.57	14.9
14.0	4.09	17.4
16.0	3.13	19.9

Cone of Light Plot

