



UL Verification Services Inc.
7036 Snowdrift Road
Allentown, PA 18106
610-774-1300



Photometric Test Report

Relevant Standards
IES LM-79-2008
ANSI C82.77-2002
UL1598-2008

Prepared For
Mercury Lighting

Stephen Bambush
20 Audrey Pl.
Fairfield, NJ 07004-3416
United States

Catalog Number
LW25-4-4500-30K-HTA-U55-UNI-XXXX

Order Number
10798566
Test Number
1078104

Test Date

2015-05-26 - 2015-05-27

Prepared By

Dane Hernandez-Adams, 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.



Table of Contents

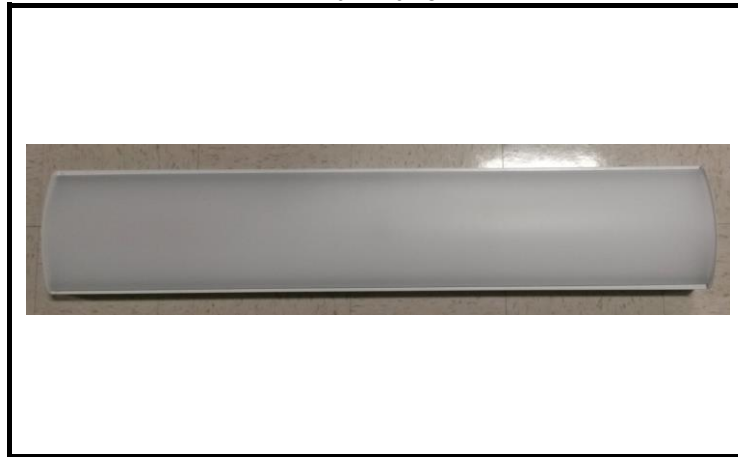
Summary of Results	Page 3
Distribution Results	Page 4
Conditions / Summary of Results / Polar Plot / Zonal / Luminance	Page 4
Candela Tabulation	Page 5
Coefficients of Utilization	Page 6
In-Situ Results	Page 7

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



Luminaire Description: Formed white enamel steel housing, white enamel steel reflector, frosted plastic lens enclosure
Lamp: 112 white LEDs
Mounting: Surface / Ceiling
Ballast/Driver: One Everline D10CC55UNVTZ-C

Luminaire



Luminaire Characteristics

Luminous Length: 48.00 in.
Luminous Width: 9.000 in.
Luminous Height: 1.00 in.

Summary of Results

Distribution

Total Luminaire Output: 4556 Lumens
Luminaire Efficacy: 98.5 lm/w
Maximum Candela: 1494 Candela

Electrical Data at 120 VAC

Test Temperature: 25.3 °C
Voltage: 120.0 VAC
Current: 0.3862 A
Power: 46.24 W
Power Factor: 0.998
Frequency: 60 Hz
Current THD: 5.40 %

In-Situ

LED Temperature: 54.4 °C
Driver Temperature: 43.6 °C
Maximum LED Current: 0.05850 A

Temperature is offset to an ambient temperature of 25°C as described in UL1598-2008.



Distribution - Goniophotometer

Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.3 °C	120.0 VAC	0.3862 A	46.24 W	0.998	60 Hz	5.40 %

Summary of Results

Spacing Criteria

0-180: 1.22
90-270: 1.22

Total Lumen Output:

4556 Lumens

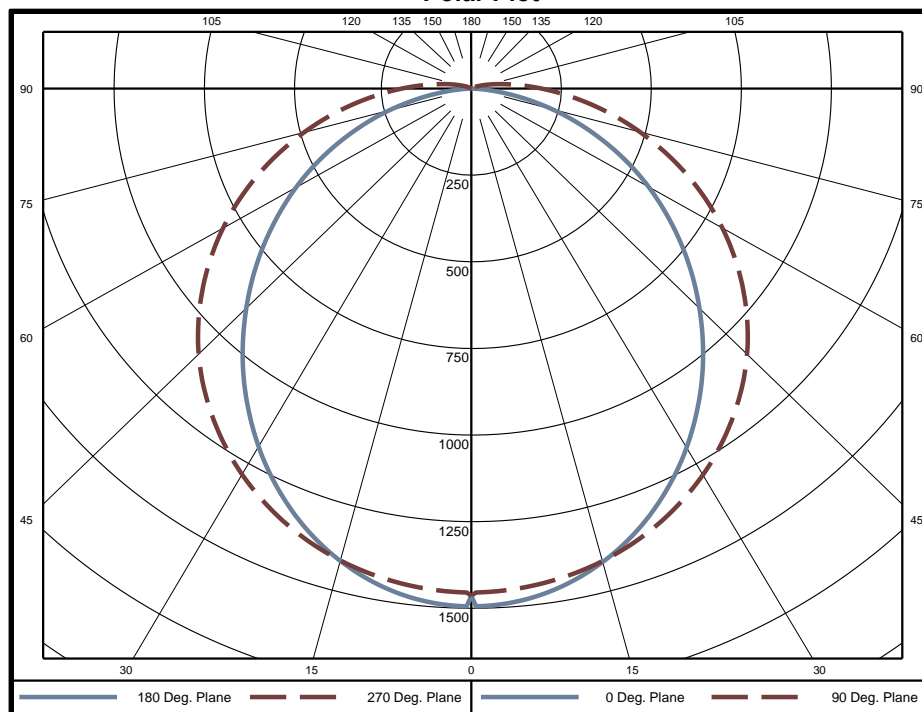
Luminaire Efficacy:

98.5 lm/w

Maximum Candela:

1494 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	34.9	0.8%	60-65	307.2	6.7%	120-125	0.9	0.0%
5-10	103.5	2.3%	65-70	264.0	5.8%	125-130	0.4	0.0%
10-15	168.5	3.7%	70-75	215.2	4.7%	130-135	0.1	0.0%
15-20	227.7	5.0%	75-80	163.6	3.6%	135-140	0.0	0.0%
20-25	279.1	6.1%	80-85	113.3	2.5%	140-145	0	0.0%
25-30	321.3	7.1%	85-90	70.8	1.6%	145-150	0	0.0%
30-35	353.1	7.8%	90-95	41.4	0.9%	150-155	0	0.0%
35-40	373.6	8.2%	95-100	23.1	0.5%	155-160	0	0.0%
40-45	382.6	8.4%	100-105	12.4	0.3%	160-165	0	0.0%
45-50	380.1	8.3%	105-110	6.4	0.1%	165-170	0	0.0%
50-55	366.1	8.0%	110-115	3.3	0.1%	170-175	0	0.0%
55-60	341.6	7.5%	115-120	1.7	0.0%	175-180	0	0.0%

Zone	Lumens	% of Luminaire
0-40	1862	40.9%
0-60	3011	73.1%
0-90	4466	98.0%
90-180	90	2.0%



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	1464	1464	1464	1464	1464	1464	1464	1464	1464	1464	1464	1464	1464	1464	1464	1464
	5	1486	1462	1449	1450	1449	1450	1449	1462	1486	1462	1449	1450	1449	1450	1449	1462
	10	1459	1437	1429	1434	1434	1434	1429	1437	1459	1437	1429	1434	1434	1434	1429	1437
	15	1415	1398	1397	1408	1411	1408	1397	1398	1415	1398	1397	1408	1411	1408	1397	1398
	20	1357	1344	1353	1372	1378	1372	1353	1344	1357	1344	1353	1372	1378	1372	1353	1344
	25	1284	1277	1297	1326	1336	1326	1297	1277	1284	1277	1297	1326	1336	1326	1297	1277
	30	1200	1200	1232	1271	1286	1271	1232	1200	1200	1200	1232	1271	1286	1271	1232	1200
	35	1107	1114	1159	1207	1226	1207	1159	1114	1107	1114	1159	1207	1226	1207	1159	1114
	40	1007	1020	1076	1135	1158	1135	1076	1020	1007	1020	1076	1135	1158	1135	1076	1020
	45	902	921	987	1055	1081	1055	987	921	902	921	987	1055	1081	1055	987	921
	50	795	818	892	967	995	967	892	818	795	818	892	967	995	967	892	818
	55	685	712	789	871	903	871	789	712	685	712	789	871	903	871	789	712
	60	575	603	684	770	803	770	684	603	575	603	684	770	803	770	684	603
	65	462	491	573	663	700	663	573	491	462	491	573	663	700	663	573	491
	70	348	378	462	555	592	555	462	378	348	378	462	555	592	555	462	378
	75	238	269	355	447	485	447	355	269	238	269	355	447	485	447	355	269
80	132	168	253	343	380	343	253	168	132	168	253	343	380	343	253	168	
85	45	85	165	248	282	248	165	85	45	85	165	248	282	248	165	85	
90	0	32	96	166	196	166	96	32	0	32	96	166	196	166	96	32	
95	0	10	51	102	126	102	51	10	0	10	51	102	126	102	51	10	
100	0	3	25	59	76	59	25	3	0	3	25	59	76	59	25	3	
105	0	1	12	32	43	32	12	1	0	1	12	32	43	32	12	1	
110	0	0	6	17	24	17	6	0	0	0	6	17	24	17	6	0	
115	0	0	3	9	13	9	3	0	0	0	3	9	13	9	3	0	
120	0	0	1	5	7	5	1	0	0	0	1	5	7	5	1	0	
125	0	0	0	3	4	3	0	0	0	0	0	3	4	3	0	0	
130	0	0	0	1	2	1	0	0	0	0	0	1	2	1	0	0	
135	0	0	0	0	1	0	0	0	0	0	0	0	1	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	5252	5252	5252
	45	4484	4580	4938
	55	4162	4356	4873
	65	3758	4057	4796
	75	3063	3646	4749
	85	1495	3294	5107



Utilization of Lumens - Zonal Cavity Method

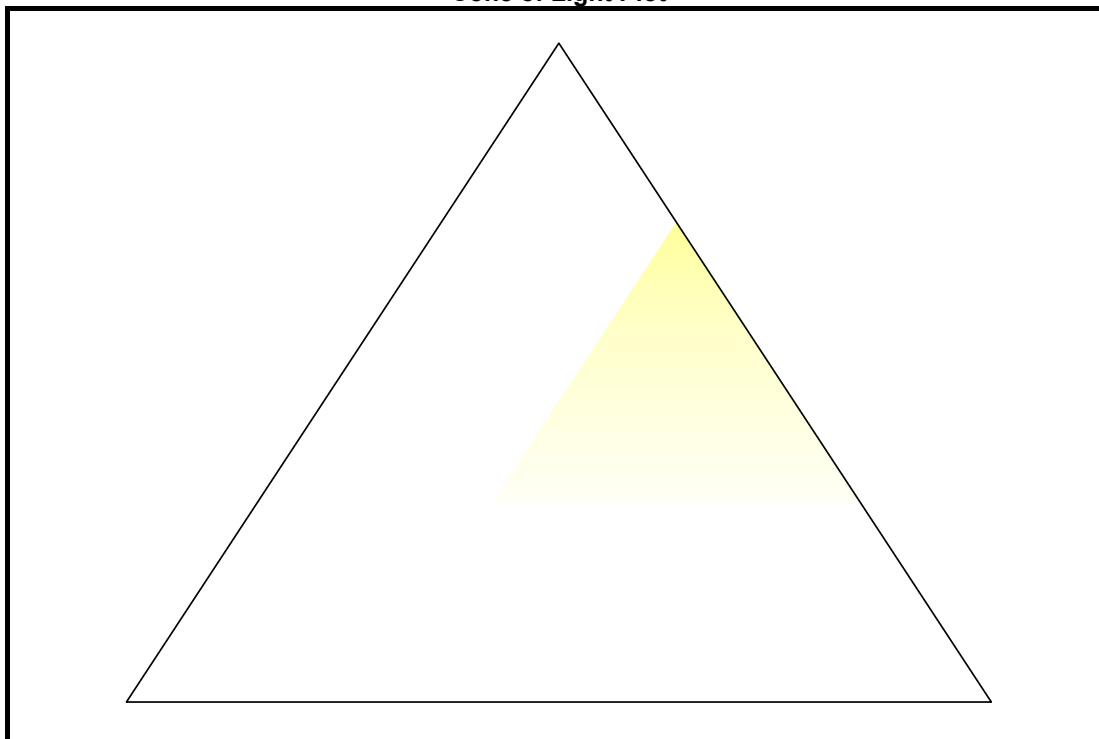
Effective Floor Cavity Reflectance 20%

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	5402	5402	5402	5402	5266	5266	5266	5266	5012	5012	5012	4780	4780	4780	4567	4567	4567	4466
1	4880	4639	4423	4229	4743	4525	4329	4151	4312	4150	4002	4117	3985	3862	3937	3831	3731	3626
2	4416	4014	3681	3401	4284	3918	3612	3353	3739	3482	3260	3574	3360	3171	3422	3244	3086	2979
3	4013	3508	3116	2804	3889	3427	3065	2772	3276	2966	2711	3137	2873	2651	3007	2784	2594	2486
4	3667	3098	2681	2362	3553	3030	2641	2340	2902	2564	2297	2783	2492	2255	2673	2422	2215	2109
5	3368	2762	2338	2025	3263	2704	2306	2009	2596	2246	1978	2495	2188	1947	2400	2133	1918	1815
6	3107	2482	2063	1762	3012	2433	2037	1750	2341	1989	1726	2254	1942	1703	2173	1897	1681	1582
7	2879	2247	1838	1551	2793	2206	1818	1542	2126	1778	1524	2052	1739	1506	1982	1702	1489	1394
8	2679	2049	1653	1381	2601	2013	1636	1373	1944	1603	1359	1880	1571	1345	1819	1540	1331	1241
9	2502	1879	1498	1240	2431	1848	1483	1234	1788	1456	1223	1732	1429	1211	1679	1403	1200	1114
10	2345	1733	1366	1122	2281	1705	1354	1118	1653	1331	1108	1604	1308	1099	1558	1286	1089	1008

Cone of Light Tabulation

Mounting Height	Footcandles at Nadir	Diameter (Feet)
4.00	91.5	5.03
6.00	40.7	7.54
8.00	22.9	10.1
10.0	14.6	12.6
12.0	10.2	15.1
14.0	7.47	17.6
16.0	5.72	20.1

Cone of Light Plot





In-Situ Test

In-Situ Test Conditions

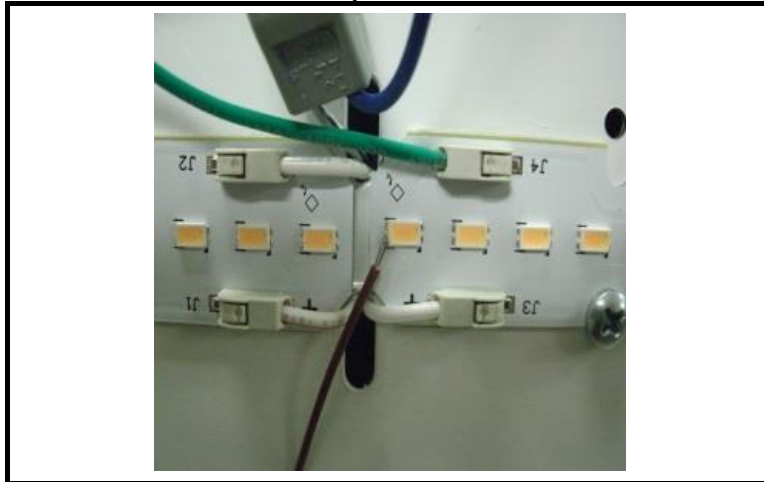
Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
23.0 °C	119.9 VAC	N/A	N/A	N/A	60 Hz	N/A

Summary of Results

LED Temperature: 54.4 °C
Driver Temperature: 43.6 °C
Maximum LED Current: 0.05850 A

Temperatures are offset to an ambient temperature of 25°C as described in UL1598-2008

LED Temperature Location



Driver Temperature Location

