



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
LR5-24G-5000-35K-U55-UNI-XXXX

Order Number
10761618
Test Number
1105063

Test Date

2015-06-12

Prepared By

Derek Smarr, Technician

Approved By

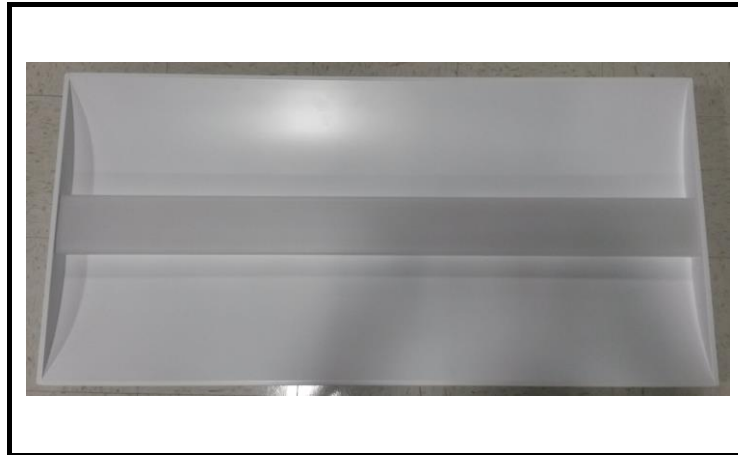
Kyle Spaziani, Project Handler

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 (@1050mA)

Luminaire



Luminaire Characteristics

Luminous Length: 47.00 in.
Luminous Width: 22.75 in.

Summary of Results

Total Luminaire Output: 4814 Lumens
Luminaire Efficacy: 93.4 lm/w
Maximum Candela: 1547 Candela

Electrical Data

Test Temperature: 24.9 °C
Voltage: 120.0 VAC
Current: 0.4302 A
Power: 51.56 W
Power Factor: 0.998
Frequency: 60 Hz
Current THD: 5.11 %

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



Distribution - Goniophotometer

Distribution Test Conditions

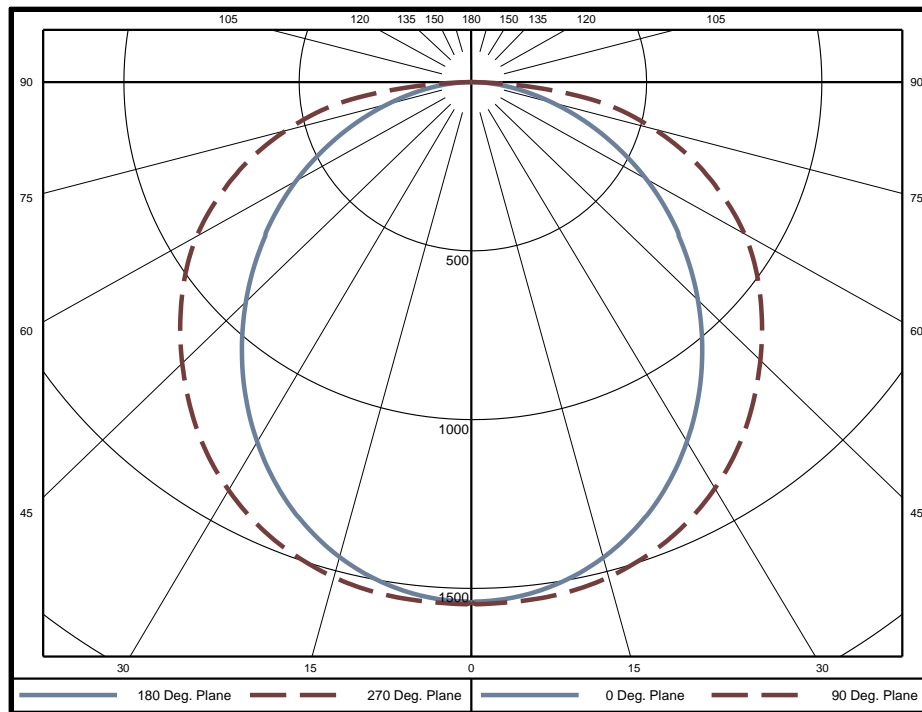
Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.9 °C	120.0 VAC	0.4302 A	51.56 W	0.998	60 Hz	5.11 %

Summary of Results

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

Total Lumen Output: 4814 Lumens
Luminaire Efficacy: 93.4 lm/w
Maximum Candela: 1547 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	36.8	0.8%	60-65	341.9	7.1%	120-125	0	0.0%
5-10	109.3	2.3%	65-70	301.8	6.3%	125-130	0	0.0%
10-15	178.4	3.7%	70-75	252.3	5.2%	130-135	0	0.0%
15-20	241.8	5.0%	75-80	195.1	4.1%	135-140	0	0.0%
20-25	297.2	6.2%	80-85	125.2	2.6%	140-145	0	0.0%
25-30	342.5	7.1%	85-90	35.9	0.7%	145-150	0	0.0%
30-35	376.6	7.8%	90-95	0	0.0%	150-155	0	0.0%
35-40	398.6	8.3%	95-100	0	0.0%	155-160	0	0.0%
40-45	408.1	8.5%	100-105	0	0.0%	160-165	0	0.0%
45-50	406.2	8.4%	105-110	0	0.0%	165-170	0	0.0%
50-55	393.7	8.2%	110-115	0	0.0%	170-175	0	0.0%
55-60	372.5	7.7%	115-120	0	0.0%	175-180	0	0.0%

Zone	Lumens	% of Luminaire
0-40	1981	41.2%
0-60	3562	74.0%
0-90	4814	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	1542	1542	1542	1542	1542	1542	1542	1542	1542	1542	1542	1542	1542	1542	1542	1542
5	1530	1535	1535	1537	1544	1537	1535	1535	1530	1535	1535	1537	1544	1537	1535	1535
10	1503	1510	1518	1527	1537	1527	1518	1510	1503	1510	1518	1527	1537	1527	1518	1510
15	1459	1471	1489	1507	1520	1507	1489	1471	1459	1471	1489	1507	1520	1507	1489	1471
20	1398	1416	1447	1473	1490	1473	1447	1416	1398	1416	1447	1473	1490	1473	1447	1416
25	1322	1347	1391	1429	1449	1429	1391	1347	1322	1347	1391	1429	1449	1429	1391	1347
30	1234	1265	1323	1372	1395	1372	1323	1265	1234	1265	1323	1372	1395	1372	1323	1265
35	1136	1173	1245	1304	1331	1304	1245	1173	1136	1173	1245	1304	1331	1304	1245	1173
40	1030	1074	1158	1226	1256	1226	1158	1074	1030	1074	1158	1226	1256	1226	1158	1074
45	920	969	1063	1141	1175	1141	1063	969	920	969	1063	1141	1175	1141	1063	969
50	807	860	962	1052	1091	1052	962	860	807	860	962	1052	1091	1052	962	860
55	697	751	860	963	1004	963	860	751	697	751	860	963	1004	963	860	751
60	582	644	760	870	910	870	760	644	582	644	760	870	910	870	760	644
65	466	535	669	766	799	766	669	535	466	535	669	766	799	766	669	535
70	354	432	564	650	681	650	564	432	354	432	564	650	681	650	564	432
75	247	334	445	520	549	520	445	334	247	334	445	520	549	520	445	334
80	152	235	317	382	407	382	317	235	152	235	317	382	407	382	317	235
85	71	123	164	181	187	181	164	123	71	123	164	181	187	181	164	123
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	2235	2235	2235
45	1885	2179	2409
55	1762	2174	2538
65	1600	2295	2739
75	1383	2495	3075
85	1177	2722	3116



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	5731	5731	5731	5731	5598	5598	5598	5598	5349	5349	5349	5121	5121	5121	4912	4912	4912	4814
1	5180	4926	4699	4494	5045	4815	4608	4420	4608	4436	4279	4417	4276	4146	4241	4128	4022	3917
2	4681	4253	3899	3601	4550	4160	3834	3557	3986	3710	3473	3825	3594	3392	3677	3485	3315	3206
3	4249	3710	3292	2960	4126	3632	3245	2932	3485	3153	2879	3350	3066	2827	3224	2983	2777	2667
4	3880	3272	2828	2488	3765	3207	2791	2470	3083	2721	2434	2968	2654	2399	2862	2590	2366	2257
5	3561	2915	2463	2130	3457	2860	2435	2117	2755	2380	2093	2658	2328	2069	2567	2278	2045	1939
6	3285	2619	2172	1851	3190	2572	2150	1842	2483	2106	1825	2400	2064	1808	2323	2024	1791	1688
7	3043	2371	1935	1630	2957	2331	1917	1623	2255	1882	1610	2184	1848	1597	2117	1815	1585	1486
8	2831	2161	1739	1450	2754	2127	1725	1445	2062	1696	1435	2001	1668	1426	1943	1642	1416	1322
9	2644	1982	1576	1302	2574	1952	1564	1298	1896	1540	1291	1843	1517	1283	1793	1495	1276	1186
10	2479	1827	1438	1179	2415	1802	1428	1176	1753	1408	1170	1707	1389	1164	1664	1370	1158	1072

Cone of Light Tabulation

Mounting Height	Footcandles at Nadir	Diameter (Feet)
4.00	96.4	5.08
6.00	42.8	7.62
8.00	24.1	10.2
10.0	15.4	12.7
12.0	10.7	15.2
14.0	7.87	17.8
16.0	6.02	20.3

Cone of Light Plot

