



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

Prepared For
TechBrite LLC

David Brown
1000 Kieley Pl
Cincinnati, OH 45217
United States

Catalog Number
C2242SS1B30AXXX

Order Number
10850434
Test Number
1123670

Test Date

2015-07-09

Prepared By

Javier Caban, Technician

Approved By

Eric Gaudreau, Engineering 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 enclosure
Lamp: 112 white LEDs
Mounting: Recessed
Ballast/Driver: One Everline D10CC55UNVTZ-C (0.574A)

Luminaire



Luminaire Characteristics

Luminous Length: 21.50 in.
Luminous Width: 23.00 in.

Summary of Results

Total Luminaire Output: 3018 Lumens
Luminaire Efficacy: 110.1 lm/w
Maximum Candela: 1099 Candela

Electrical Data

Test Temperature: 24.4 °C
Voltage: 277.0
Current: 0.1066 A
Power: 28.25 W
Power Factor: 0.956
Frequency: 60 Hz
Current THD: 8.28 %

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
25.0 °C	120.0 VAC	0.2293 A	27.41 W	0.996	60 Hz	7.77 %

Summary of Results

Spacing Criteria

0-180: 1.14
90-270: 1.14

Total Lumen Output:

3018 Lumens

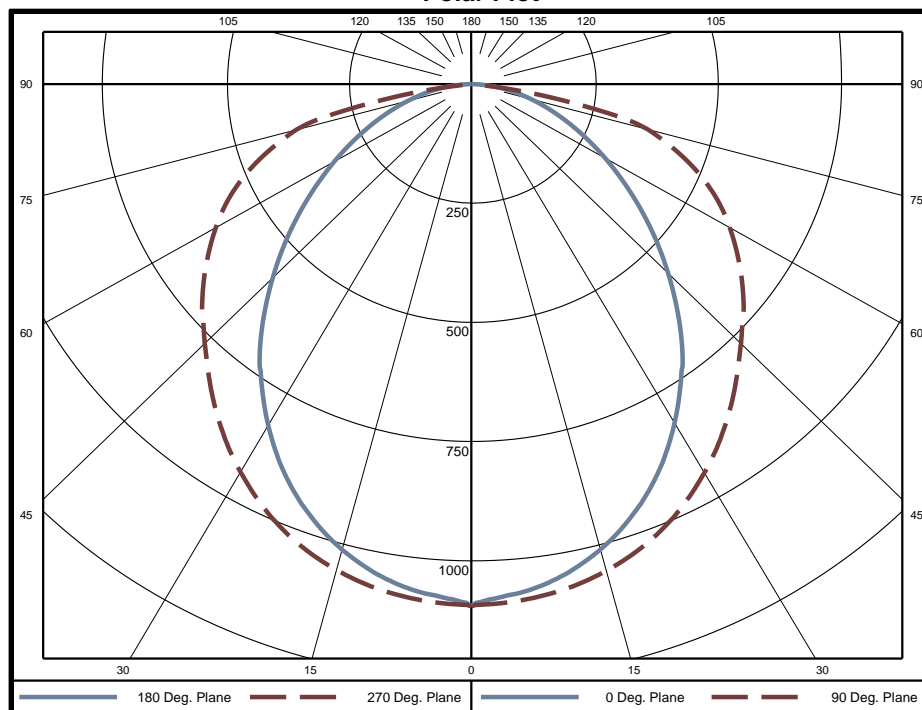
Luminaire Efficacy:

110.1 lm/w

Maximum Candela:

1099 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	26.0	0.9%	60-65	205.6	6.8%	120-125	0	0.0%
5-10	76.8	2.5%	65-70	180.8	6.0%	125-130	0	0.0%
10-15	124.5	4.1%	70-75	149.9	5.0%	130-135	0	0.0%
15-20	167.3	5.5%	75-80	108.2	3.6%	135-140	0	0.0%
20-25	203.3	6.7%	80-85	45.3	1.5%	140-145	0	0.0%
25-30	231.1	7.7%	85-90	5.3	0.2%	145-150	0	0.0%
30-35	249.8	8.3%	90-95	0	0.0%	150-155	0	0.0%
35-40	259.6	8.6%	95-100	0	0.0%	155-160	0	0.0%
40-45	260.5	8.6%	100-105	0	0.0%	160-165	0	0.0%
45-50	254.6	8.4%	105-110	0	0.0%	165-170	0	0.0%
50-55	242.8	8.0%	110-115	0	0.0%	170-175	0	0.0%
55-60	226.4	7.5%	115-120	0	0.0%	175-180	0	0.0%

Zone	Lumens	% of Luminaire
0-40	1338	44.3%
0-60	2323	77.0%
0-90	3018	100.0%
90-180	0	0.0%



Candela Tabulation
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	1095	1095	1095	1095	1095	1095	1095	1095	1095	1095	1095	1095	1095	1095	1095	1095
5	1073	1084	1083	1083	1088	1083	1083	1084	1073	1084	1083	1083	1088	1083	1083	1084
10	1049	1061	1065	1066	1076	1066	1065	1061	1049	1061	1065	1066	1076	1066	1065	1061
15	1012	1026	1036	1043	1056	1043	1036	1026	1012	1026	1036	1043	1056	1043	1036	1026
20	962	978	995	1011	1028	1011	995	978	962	978	995	1011	1028	1011	995	978
25	900	919	944	968	989	968	944	919	900	919	944	968	989	968	944	919
30	827	849	882	915	941	915	882	849	827	849	882	915	941	915	882	849
35	746	771	814	857	887	857	814	771	746	771	814	857	887	857	814	771
40	662	689	739	793	828	793	739	689	662	689	739	793	828	793	739	689
45	570	601	665	731	770	731	665	601	570	601	665	731	770	731	665	601
50	482	514	591	674	717	674	591	514	482	514	591	674	717	674	591	514
55	397	432	521	614	661	614	521	432	397	432	521	614	661	614	521	432
60	319	353	455	555	602	555	455	353	319	353	455	555	602	555	455	353
65	249	285	392	493	538	493	392	285	249	285	392	493	538	493	392	285
70	187	221	329	419	459	419	329	221	187	221	329	419	459	419	329	221
75	131	164	255	332	370	332	255	164	131	164	255	332	370	332	255	164
80	82	107	168	177	168	177	168	107	82	107	168	177	168	177	168	107
85	36	42	39	17	8	17	39	42	36	42	39	17	8	17	39	42
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)

	0	45	90
0	3434	3434	3434
45	2527	2949	3411
55	2168	2846	3609
65	1847	2909	3989
75	1588	3084	4476
85	1281	1408	286



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	3593	3593	3593	3593	3509	3509	3509	3509	3353	3353	3353	3210	3210	3210	3079	3079	3079	3018
1	3274	3126	2994	2875	3191	3057	2937	2827	2929	2829	2738	2810	2729	2654	2701	2636	2575	2511
2	2970	2714	2503	2326	2889	2657	2463	2298	2549	2385	2244	2449	2313	2192	2357	2244	2143	2077
3	2703	2378	2127	1926	2627	2330	2097	1909	2239	2039	1874	2155	1984	1841	2077	1933	1809	1742
4	2473	2105	1835	1629	2403	2064	1812	1617	1988	1768	1595	1917	1727	1572	1851	1687	1551	1484
5	2274	1880	1605	1402	2210	1846	1588	1394	1782	1553	1378	1721	1521	1363	1665	1489	1348	1283
6	2100	1693	1420	1224	2042	1665	1406	1219	1610	1379	1207	1558	1353	1196	1510	1328	1186	1123
7	1948	1536	1269	1082	1895	1512	1258	1078	1465	1236	1070	1421	1215	1062	1379	1195	1054	993
8	1815	1403	1144	966	1767	1382	1135	963	1341	1117	957	1304	1100	951	1268	1083	945	887
9	1696	1289	1039	870	1653	1270	1031	868	1236	1017	863	1203	1002	858	1172	988	854	798
10	1591	1190	950	790	1552	1174	944	788	1144	931	784	1115	919	781	1088	908	777	724

Cone of Light Tabulation

Mounting Height	Footcandles at Nadir	Diameter (Feet)
4.00	68.5	4.81
6.00	30.4	7.21
8.00	17.1	9.61
10.0	11.0	12.0
12.0	7.61	14.4
14.0	5.59	16.8
16.0	4.28	19.2

Cone of Light Plot

