



UL Verification Services
7036 Snowdrift Road Suite 200
Allentown, PA 18106
610-774-1300



Photometric Indoor Test Report

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

Prepared For
Maxlite SK America, Inc
Ken Charton
12 York Ave
West Caldwell, NJ 07006-6411

Catalog Number
SKG0902LED27
Project Number
10053543
Test Number
293069

Test Date

2013-08-20

Prepared By

Approved By

Jeff Smith Jr., Project Coordinator

Zachary Mooney, Engineering Associate

The results contained in this report pertain only to the tested sample.
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Lamp Description: Plastic housing, clear plastic enclosure
Catalog Number: SKG0902LED27
Lamp: One 2 watt G9 LED lamp
Mounting: VBU

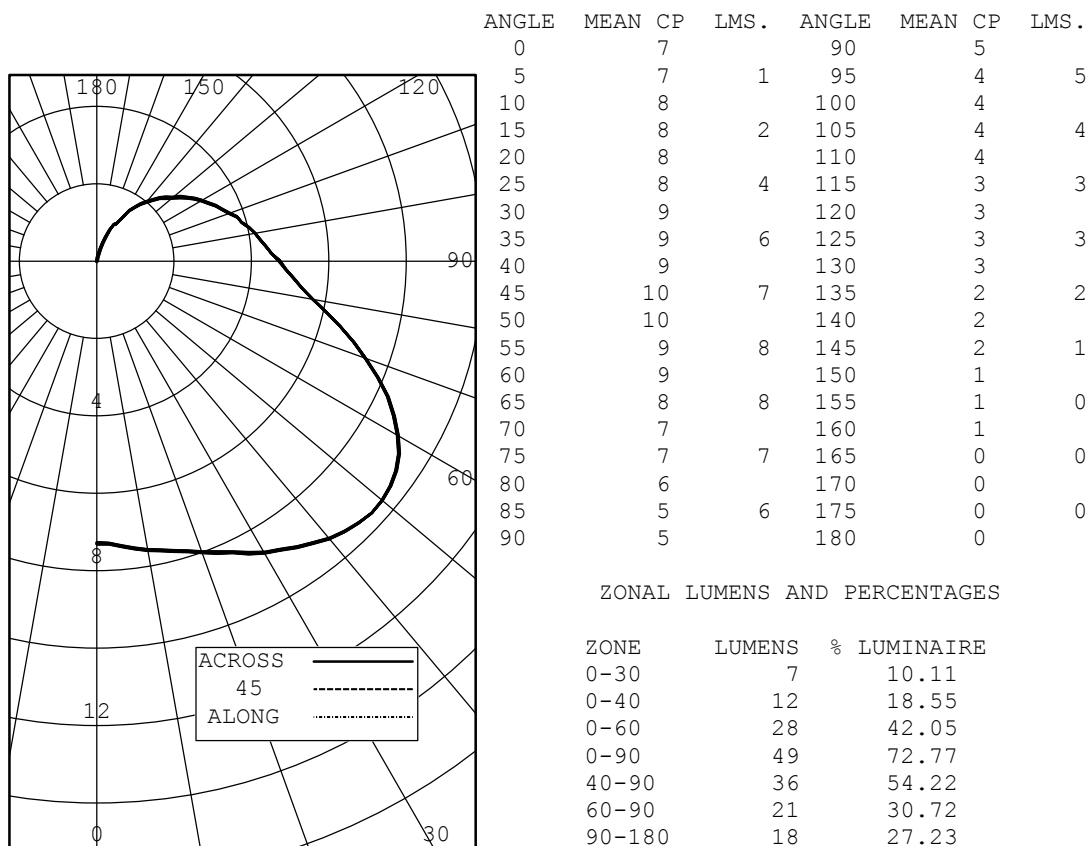
Lamp

**Test Conditions**

Test Temperature:	25.1 °C
Voltage:	120.0 VAC
Current:	0.01425 A
Power:	1.590 W
Power Factor:	0.934
Frequency:	60 Hz
Current THD:	38.3 %



INTENSITY (CANDLEPOWER) SUMMARY



ANGLE	MEAN CP	LMS.	ANGLE	MEAN CP	LMS.
0	7		90	5	
5	7	1	95	4	5
10	8		100	4	
15	8	2	105	4	4
20	8		110	4	
25	8	4	115	3	3
30	9		120	3	
35	9	6	125	3	3
40	9		130	3	
45	10	7	135	2	2
50	10		140	2	
55	9	8	145	2	1
60	9		150	1	
65	8	8	155	1	0
70	7		160	1	
75	7	7	165	0	0
80	6		170	0	
85	5	6	175	0	0
90	5		180	0	

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LUMINAIRE
0-30	7	10.11
0-40	12	18.55
0-60	28	42.05
0-90	49	72.77
40-90	36	54.22
60-90	21	30.72
90-180	18	27.23
0-180	67	100.00

EFFICACY (LUMENS PER WATT): 42.0

*** THIS IS AN ABSOLUTE TEST ***

LUMINOUS LENGTH: 0.500 INS
WIDTH: 0.000 INS

LUMINANCE SUMMARY CD./SQ.M.

S/MH: 1.9
SC: 1.9

ANGLE	MEAN CD/SQ M
45	75196
55	64063
65	50813
75	37465
85	28483

TESTED IN ACCORDANCE WITH IES PROCEDURES.



INTENSITY (CANDLEPOWER) DATA

ANGLE	INTENSITY (CANDLEPOWER)	LUMENS
0	7	
5	7	1
10	8	
15	8	2
20	8	
25	8	4
30	9	
35	9	6
40	9	
45	10	7
50	10	
55	9	8
60	9	
65	8	8
70	7	
75	7	7
80	6	
85	5	6
90	5	
95	4	5
100	4	
105	4	4
110	4	
115	3	3
120	3	
125	3	3
130	3	
135	2	2
140	2	
145	2	1
150	1	
155	1	0
160	1	
165	0	0
170	0	
175	0	0
180	0	



COEFFICIENTS OF UTILIZATION

ZONAL CAVITY METHOD

EFFECTIVE FLOOR CAVITY REFLECTANCE = .20

CC WALL	90				80				70				50				30				10				0
	70	50	30	10	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																									
0	1.181	1.181	1.181	1.18	1.131	1.131	1.131	1.13	1.071	1.071	1.071	1.07	0.960	0.960	0.96	0.860	0.860	0.86	0.770	0.770	0.77	0.73			
1	1.050	0.980	0.920	0.87	0.990	0.930	0.870	0.83	0.930	0.880	0.830	0.78	0.790	0.750	0.71	0.700	0.670	0.64	0.620	0.600	0.57	0.53			
2	0.940	0.830	0.750	0.67	0.890	0.790	0.710	0.64	0.830	0.750	0.670	0.61	0.670	0.610	0.56	0.590	0.550	0.50	0.520	0.490	0.45	0.42			
3	0.850	0.710	0.610	0.54	0.800	0.680	0.590	0.51	0.750	0.640	0.560	0.49	0.570	0.500	0.45	0.510	0.450	0.41	0.450	0.400	0.37	0.33			
4	0.770	0.630	0.520	0.44	0.730	0.590	0.500	0.43	0.680	0.560	0.480	0.41	0.500	0.430	0.37	0.450	0.390	0.34	0.390	0.350	0.31	0.27			
5	0.700	0.550	0.450	0.37	0.660	0.520	0.430	0.35	0.620	0.490	0.400	0.34	0.440	0.370	0.31	0.390	0.330	0.28	0.350	0.300	0.25	0.23			
6	0.640	0.480	0.380	0.31	0.600	0.460	0.370	0.30	0.560	0.440	0.350	0.28	0.390	0.320	0.26	0.350	0.280	0.24	0.310	0.250	0.21	0.19			
7	0.580	0.430	0.330	0.27	0.550	0.410	0.320	0.25	0.520	0.390	0.300	0.24	0.350	0.270	0.22	0.310	0.250	0.20	0.270	0.220	0.18	0.15			
8	0.540	0.380	0.290	0.23	0.510	0.370	0.280	0.22	0.480	0.350	0.260	0.21	0.310	0.240	0.19	0.280	0.220	0.17	0.250	0.190	0.15	0.13			
9	0.500	0.350	0.250	0.19	0.470	0.330	0.240	0.19	0.440	0.310	0.230	0.18	0.280	0.210	0.16	0.250	0.190	0.15	0.220	0.170	0.13	0.11			
10	0.460	0.320	0.220	0.17	0.430	0.300	0.220	0.16	0.410	0.280	0.210	0.15	0.260	0.190	0.14	0.230	0.170	0.13	0.200	0.150	0.11	0.10			

THE ABOVE COEFFICIENTS HAVE BEEN CALCULATED BASED ON LUMINAIRE LUMENS
BECAUSE IN AN ABSOLUTE TEST THE BARE LAMP LUMENS ARE UNKNOWN.
LIGHTING DESIGN CALCULATIONS MADE USING THESE COEFFICIENTS SHOULD
THEREFORE USE THE LUMINAIRE LUMENS IN THE CALCULATION FORMULA

LABORATORY RESULTS MAY NOT BE REPRESENTATIVE OF FIELD PERFORMANCE.
BALLAST AND FIELD FACTORS HAVE NOT BEEN APPLIED.

TEST DISTANCE EXCEEDS FIVE TIMES THE GREATEST
LUMINOUS OPENING OF LUMINAIRE.