

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SGB8SQLEDGV-14W40KE1-AR0806-GW.IES
DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] 1309131053-001_M14W

[TESTLAB] Intertek

[ISSUE DATE] 9/26/2013

[UPDATE] 4/24/2014

[MANUFAC] SPECTRUM LIGHTING

[LUMCAT] SGB8SQLEDGV-14W-40K-E1/AR0806LEDGV-GW

[LUMINAIRE] LED RECESSED SQUARE APERTURE DOWNLIGHT

[LAMP] N/A

[LAMPCAT] N/A

[OTHER] Total Luminaire Wattage is approximate.

[OTHER] Output Multiplier for other Color Temperatures: 0.944 for 3500K, 3000K, and 2700K.

[OTHER] This report prepared by Spectrum Lighting, based on test 1309131053-001, factored for 14W.

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1118
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	73
Total Luminaire Watts	15.4
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.18
Spacing Criterion (90-270)	1.18
Spacing Criterion (Diagonal)	1.20
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.67 ft
Luminous Width (90-270)	0.67 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	5156	6058	5214
55	5035	4713	5075
65	4132	4073	4152
75	3153	3181	3201
85	1913	1751	1822

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>	<u>202.5</u>
0.0	604.675	604.675	604.675	604.675	604.675	604.675	604.675	604.675	604.675	604.675
2.5	604.933	604.859	604.528	604.749	604.380	604.749	604.528	604.859	604.933	604.859
5.0	607.805	606.922	605.927	606.001	606.443	606.001	605.927	606.922	607.805	606.922
7.5	616.166	614.030	610.015	611.157	612.667	611.157	610.015	614.030	616.166	614.030
10.0	621.506	620.180	616.866	615.982	618.155	615.982	616.866	620.180	621.506	620.180
12.5	625.631	625.152	625.926	622.427	623.200	622.427	625.926	625.152	625.631	625.152
15.0	630.603	631.082	637.601	631.193	628.799	631.193	637.601	631.082	630.603	631.082
17.5	631.819	635.244	647.545	638.374	630.456	638.374	647.545	635.244	631.819	635.244
20.0	627.289	635.759	652.259	640.989	627.878	640.989	652.259	635.759	627.289	635.759
22.5	620.401	632.261	652.775	640.584	620.806	640.584	652.775	632.261	620.401	632.261
25.0	601.729	623.274	647.619	632.408	597.567	632.408	647.619	623.274	601.729	623.274
27.5	547.146	592.263	637.269	608.579	544.053	608.579	637.269	592.263	547.146	592.263
30.0	476.359	531.457	623.532	554.623	472.418	554.623	623.532	531.457	476.359	531.457
32.5	392.166	453.635	593.515	480.300	389.256	480.300	593.515	453.635	392.166	453.635
35.0	308.046	367.490	524.054	396.217	304.068	396.217	524.054	367.490	308.046	367.490
37.5	229.672	283.260	429.511	310.514	227.904	310.514	429.511	283.260	229.672	283.260
40.0	169.234	209.452	332.391	232.360	172.991	232.360	332.391	209.452	169.234	209.452
42.5	156.343	161.794	247.350	174.022	158.259	174.022	247.350	161.794	156.343	161.794
45.0	152.182	155.165	178.810	155.423	153.913	155.423	178.810	155.165	152.182	155.165
47.5	148.057	149.419	140.433	148.351	149.824	148.351	140.433	149.419	148.057	149.419
50.0	143.342	143.563	130.378	140.838	144.852	140.838	130.378	143.563	143.342	143.563
52.5	134.024	134.245	121.834	131.557	135.461	131.557	121.834	134.245	134.024	134.245
55.0	120.545	121.723	112.847	120.397	121.502	120.397	112.847	121.723	120.545	121.723
57.5	108.280	108.170	103.271	108.280	108.980	108.280	103.271	108.170	108.280	108.170
60.0	96.310	96.016	92.922	96.053	96.384	96.053	92.922	96.016	96.310	96.016
62.5	84.267	84.083	82.131	83.899	84.746	83.899	82.131	84.083	84.267	84.083
65.0	72.887	72.813	71.855	72.408	73.255	72.408	71.855	72.813	72.887	72.813
67.5	62.059	62.095	61.432	61.617	62.427	61.617	61.432	62.095	62.059	62.095
70.0	52.225	52.188	51.930	51.783	52.483	51.783	52.188	52.225	52.188	52.188
72.5	42.944	42.944	42.833	42.833	43.312	42.833	42.833	42.944	42.944	42.944
75.0	34.068	34.215	34.362	34.473	34.583	34.473	34.362	34.215	34.068	34.215
77.5	25.634	26.186	26.554	26.665	26.481	26.665	26.554	26.186	25.634	26.186
80.0	18.783	18.967	19.225	19.594	19.152	19.594	19.225	18.967	18.783	18.967
82.5	12.522	12.522	12.559	12.927	12.596	12.927	12.559	12.522	12.522	12.522
85.0	6.961	6.556	6.372	7.035	6.629	7.035	6.372	6.556	6.961	6.556
87.5	1.805	1.179	1.031	1.584	1.289	1.584	1.031	1.179	1.805	1.179
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Angles **Horizontal Angles**

	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0.0	604.675	604.675	604.675	604.675	604.675	604.675	604.675
2.5	604.528	604.749	604.380	604.749	604.528	604.859	604.933
5.0	605.927	606.001	606.443	606.001	605.927	606.922	607.805
7.5	610.015	611.157	612.667	611.157	610.015	614.030	616.166
10.0	616.866	615.982	618.155	615.982	616.866	620.180	621.506
12.5	625.926	622.427	623.200	622.427	625.926	625.152	625.631
15.0	637.601	631.193	628.799	631.193	637.601	631.082	630.603
17.5	647.545	638.374	630.456	638.374	647.545	635.244	631.819
20.0	652.259	640.989	627.878	640.989	652.259	635.759	627.289
22.5	652.775	640.584	620.806	640.584	652.775	632.261	620.401
25.0	647.619	632.408	597.567	632.408	647.619	623.274	601.729
27.5	637.269	608.579	544.053	608.579	637.269	592.263	547.146
30.0	623.532	554.623	472.418	554.623	623.532	531.457	476.359

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CANDELA TABULATION - (Cont.)

32.5	593.515	480.300	389.256	480.300	593.515	453.635	392.166
35.0	524.054	396.217	304.068	396.217	524.054	367.490	308.046
37.5	429.511	310.514	227.904	310.514	429.511	283.260	229.672
40.0	332.391	232.360	172.991	232.360	332.391	209.452	169.234
42.5	247.350	174.022	158.259	174.022	247.350	161.794	156.343
45.0	178.810	155.423	153.913	155.423	178.810	155.165	152.182
47.5	140.433	148.351	149.824	148.351	140.433	149.419	148.057
50.0	130.378	140.838	144.852	140.838	130.378	143.563	143.342
52.5	121.834	131.557	135.461	131.557	121.834	134.245	134.024
55.0	112.847	120.397	121.502	120.397	112.847	121.723	120.545
57.5	103.271	108.280	108.980	108.280	103.271	108.170	108.280
60.0	92.922	96.053	96.384	96.053	92.922	96.016	96.310
62.5	82.131	83.899	84.746	83.899	82.131	84.083	84.267
65.0	71.855	72.408	73.255	72.408	71.855	72.813	72.887
67.5	61.432	61.617	62.427	61.617	61.432	62.095	62.059
70.0	51.930	51.783	52.483	51.783	51.930	52.188	52.225
72.5	42.833	42.833	43.312	42.833	42.833	42.944	42.944
75.0	34.362	34.473	34.583	34.473	34.362	34.215	34.068
77.5	26.554	26.665	26.481	26.665	26.554	26.186	25.634
80.0	19.225	19.594	19.152	19.594	19.225	18.967	18.783
82.5	12.559	12.927	12.596	12.927	12.559	12.522	12.522
85.0	6.372	7.035	6.629	7.035	6.372	6.556	6.961
87.5	1.031	1.584	1.289	1.584	1.031	1.179	1.805
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	237.50	N.A.	21.20
0-30	519.91	N.A.	46.50
0-40	764.48	N.A.	68.40
0-60	1001.27	N.A.	89.50
0-80	1110.1	N.A.	99.30
0-90	1118.33	N.A.	100.00
10-90	1060.00	N.A.	94.80
20-40	526.98	N.A.	47.10
20-50	657.80	N.A.	58.80
40-70	308.91	N.A.	27.60
60-80	108.83	N.A.	9.70
70-80	36.71	N.A.	3.30
80-90	8.23	N.A.	0.70
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	1118.33	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	58.32
10-20	179.18
20-30	282.40
30-40	244.58
40-50	130.82
50-60	105.97
60-70	72.12
70-80	36.71
80-90	8.23
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

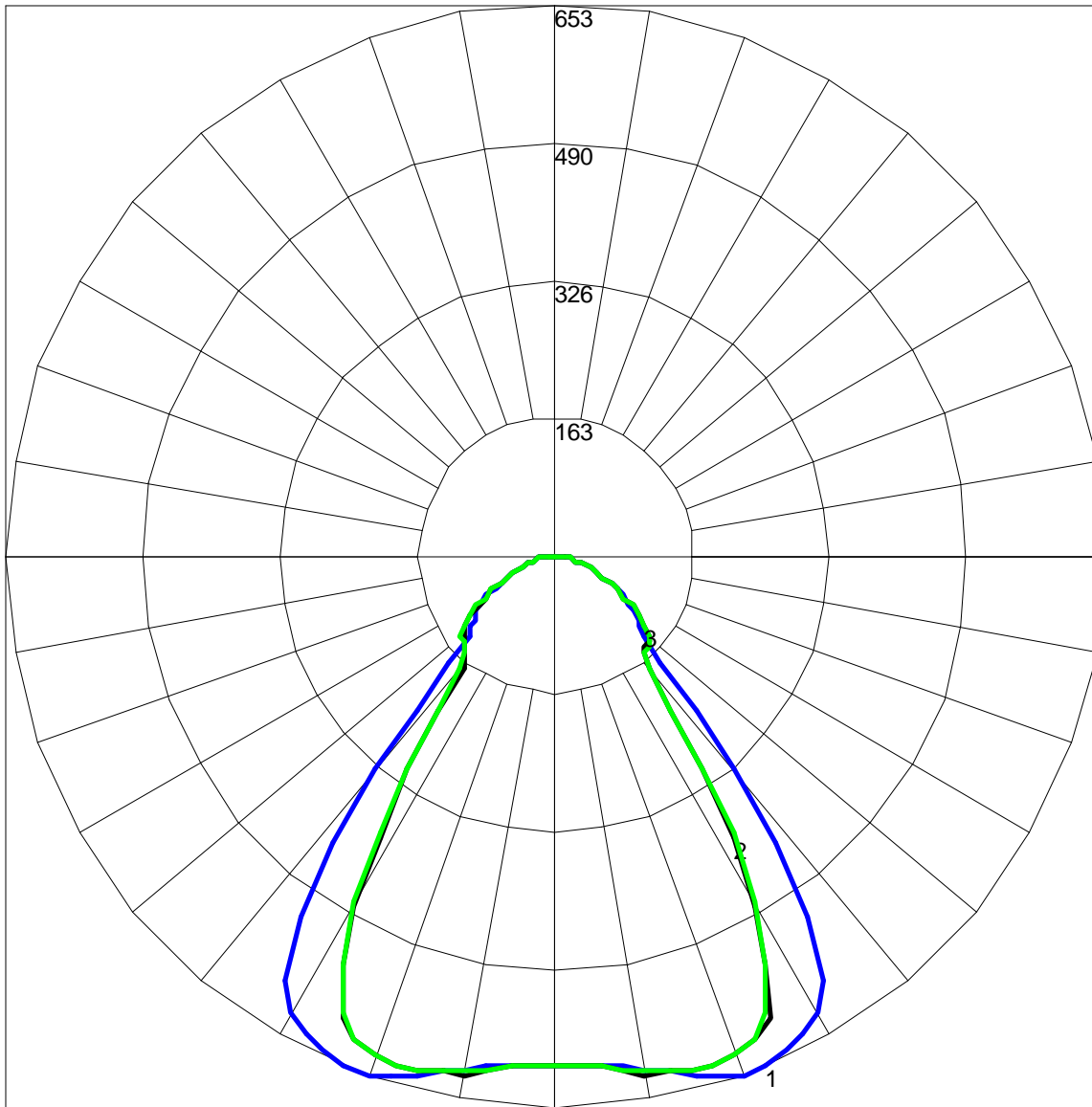
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	107	104	101	109	105	102	99	101	98	96	97	95	93	94	92	90	89
2	103	97	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	78
3	96	87	81	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	62
5	83	72	65	59	81	71	64	59	69	63	58	68	62	58	66	61	57	55
6	78	66	59	53	76	66	58	53	64	57	53	62	57	52	61	56	52	50
7	73	61	54	48	71	61	53	48	59	53	48	58	52	48	56	51	47	46
8	69	57	49	44	67	56	49	44	55	48	44	54	48	44	53	47	43	42
9	65	53	45	41	63	52	45	40	51	45	40	50	44	40	49	44	40	38
10	61	49	42	37	60	49	42	37	48	42	37	47	41	37	46	41	37	35

POLAR GRAPH



Maximum Candela = 652.775 Located At Horizontal Angle = 45, Vertical Angle = 22.5
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
2 - Vertical Plane Through Horizontal Angles (0 - 180)
3 - Vertical Plane Through Horizontal Angles (90 - 270)