

**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : SGB8SQLEDGV-26W40KE1-AR0806-GW.IES**
**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] 1309131053-001\_M26W

[TESTLAB] Intertek

[ISSUE DATE] 9/26/2013

[UPDATE] 4/24/2014

[MANUFAC] SPECTRUM LIGHTING

[LUMCAT] SGB8SQLEDGV-26W-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 26W.

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2049
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	78
Total Luminaire Watts	26.4
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	9445	11098	9552
55	9223	8634	9296
65	7569	7462	7607
75	5777	5827	5864
85	3505	3208	3338

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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>
<b>0.0</b>	1107.722	1107.722	1107.722	1107.722	1107.722	1107.722	1107.722	1107.722	1107.722	1107.722
<b>2.5</b>	1108.195	1108.060	1107.453	1107.857	1107.183	1107.857	1107.453	1108.060	1108.195	1108.060
<b>5.0</b>	1113.457	1111.838	1110.016	1110.151	1110.961	1110.151	1110.016	1111.838	1113.457	1111.838
<b>7.5</b>	1128.773	1124.860	1117.506	1119.597	1122.363	1119.597	1117.506	1124.860	1128.773	1124.860
<b>10.0</b>	1138.556	1136.127	1130.055	1128.436	1132.417	1128.436	1130.055	1136.127	1138.556	1136.127
<b>12.5</b>	1146.113	1145.236	1146.653	1140.243	1141.660	1140.243	1146.653	1145.236	1146.113	1145.236
<b>15.0</b>	1155.221	1156.098	1168.041	1156.301	1151.915	1156.301	1168.041	1156.098	1155.221	1156.098
<b>17.5</b>	1157.448	1163.723	1186.258	1169.458	1154.951	1169.458	1186.258	1163.723	1157.448	1163.723
<b>20.0</b>	1149.149	1164.667	1194.894	1174.248	1150.229	1174.248	1194.894	1164.667	1149.149	1164.667
<b>22.5</b>	1136.532	1158.258	1195.838	1173.506	1137.274	1173.506	1195.838	1158.258	1136.532	1158.258
<b>25.0</b>	1102.325	1141.795	1186.393	1158.527	1094.701	1158.527	1186.393	1141.795	1102.325	1141.795
<b>27.5</b>	1002.334	1084.985	1167.433	1114.874	996.667	1114.874	1167.433	1084.985	1002.334	1084.985
<b>30.0</b>	872.657	973.592	1142.267	1016.031	865.438	1016.031	1142.267	973.592	872.657	973.592
<b>32.5</b>	718.421	831.028	1087.279	879.876	713.090	879.876	1087.279	831.028	718.421	831.028
<b>35.0</b>	564.319	673.216	960.031	725.842	557.032	725.842	960.031	673.216	564.319	673.216
<b>37.5</b>	420.743	518.912	786.835	568.840	417.504	568.840	786.835	518.912	420.743	518.912
<b>40.0</b>	310.025	383.702	608.917	425.668	316.907	425.668	608.917	383.702	310.025	383.702
<b>42.5</b>	286.410	296.396	453.129	318.796	289.919	318.796	453.129	296.396	286.410	296.396
<b>45.0</b>	278.786	284.251	327.567	284.723	281.957	284.723	327.567	284.251	278.786	284.251
<b>47.5</b>	271.229	273.726	257.263	271.769	274.468	271.769	257.263	273.726	271.229	273.726
<b>50.0</b>	262.593	262.998	238.844	258.005	265.360	258.005	238.844	262.998	262.593	262.998
<b>52.5</b>	245.523	245.928	223.191	241.003	248.155	241.003	223.191	245.928	245.523	245.928
<b>55.0</b>	220.829	222.988	206.728	220.559	222.584	220.559	206.728	222.988	220.829	222.988
<b>57.5</b>	198.362	198.159	189.186	198.362	199.644	198.362	189.186	198.159	198.362	198.159
<b>60.0</b>	176.434	175.894	170.227	175.962	176.569	175.962	170.227	175.894	176.434	175.894
<b>62.5</b>	154.371	154.034	150.458	153.697	155.248	153.697	150.458	154.034	154.371	154.034
<b>65.0</b>	133.523	133.388	131.634	132.646	134.198	132.646	131.634	133.388	133.523	133.388
<b>67.5</b>	113.687	113.754	112.540	112.877	114.362	112.877	112.540	113.754	113.687	113.754
<b>70.0</b>	95.672	95.605	95.133	94.863	96.145	94.863	95.133	95.605	95.672	95.605
<b>72.5</b>	78.670	78.670	78.468	78.468	79.345	78.468	78.468	78.670	78.670	78.670
<b>75.0</b>	62.410	62.680	62.950	63.152	63.354	63.152	62.950	62.680	62.410	62.680
<b>77.5</b>	46.959	47.971	48.646	48.848	48.511	48.848	48.646	47.971	46.959	47.971
<b>80.0</b>	34.410	34.747	35.219	35.894	35.084	35.894	35.219	34.747	34.410	34.747
<b>82.5</b>	22.940	22.940	23.007	23.682	23.075	23.682	23.007	22.940	22.940	22.940
<b>85.0</b>	12.752	12.010	11.672	12.887	12.145	12.887	11.672	12.010	12.752	12.010
<b>87.5</b>	3.306	2.159	1.889	2.901	2.361	2.901	1.889	2.159	3.306	2.159
<b>90.0</b>	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>
<b>0.0</b>	1107.722	1107.722	1107.722	1107.722	1107.722	1107.722	1107.722
<b>2.5</b>	1107.453	1107.857	1107.183	1107.857	1107.453	1108.060	1108.195
<b>5.0</b>	1110.016	1110.151	1110.961	1110.151	1110.016	1111.838	1113.457
<b>7.5</b>	1117.506	1119.597	1122.363	1119.597	1117.506	1124.860	1128.773
<b>10.0</b>	1130.055	1128.436	1132.417	1128.436	1130.055	1136.127	1138.556
<b>12.5</b>	1146.653	1140.243	1141.660	1140.243	1146.653	1145.236	1146.113
<b>15.0</b>	1168.041	1156.301	1151.915	1156.301	1168.041	1156.098	1155.221
<b>17.5</b>	1186.258	1169.458	1154.951	1169.458	1186.258	1163.723	1157.448
<b>20.0</b>	1194.894	1174.248	1150.229	1174.248	1194.894	1164.667	1149.149
<b>22.5</b>	1195.838	1173.506	1137.274	1173.506	1195.838	1158.258	1136.532
<b>25.0</b>	1186.393	1158.527	1094.701	1158.527	1186.393	1141.795	1102.325
<b>27.5</b>	1167.433	1114.874	996.667	1114.874	1167.433	1084.985	1002.334
<b>30.0</b>	1142.267	1016.031	865.438	1016.031	1142.267	973.592	872.657

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**CANDELA TABULATION - (Cont.)**

32.5	1087.279	879.876	713.090	879.876	1087.279	831.028	718.421
35.0	960.031	725.842	557.032	725.842	960.031	673.216	564.319
37.5	786.835	568.840	417.504	568.840	786.835	518.912	420.743
40.0	608.917	425.668	316.907	425.668	608.917	383.702	310.025
42.5	453.129	318.796	289.919	318.796	453.129	296.396	286.410
45.0	327.567	284.723	281.957	284.723	327.567	284.251	278.786
47.5	257.263	271.769	274.468	271.769	257.263	273.726	271.229
50.0	238.844	258.005	265.360	258.005	238.844	262.998	262.593
52.5	223.191	241.003	248.155	241.003	223.191	245.928	245.523
55.0	206.728	220.559	222.584	220.559	206.728	222.988	220.829
57.5	189.186	198.362	199.644	198.362	189.186	198.159	198.362
60.0	170.227	175.962	176.569	175.962	170.227	175.894	176.434
62.5	150.458	153.697	155.248	153.697	150.458	154.034	154.371
65.0	131.634	132.646	134.198	132.646	131.634	133.388	133.523
67.5	112.540	112.877	114.362	112.877	112.540	113.754	113.687
70.0	95.133	94.863	96.145	94.863	95.133	95.605	95.672
72.5	78.468	78.468	79.345	78.468	78.468	78.670	78.670
75.0	62.950	63.152	63.354	63.152	62.950	62.680	62.410
77.5	48.646	48.848	48.511	48.848	48.646	47.971	46.959
80.0	35.219	35.894	35.084	35.894	35.219	34.747	34.410
82.5	23.007	23.682	23.075	23.682	23.007	22.940	22.940
85.0	11.672	12.887	12.145	12.887	11.672	12.010	12.752
87.5	1.889	2.901	2.361	2.901	1.889	2.159	3.306
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	435.09	N.A.	21.20
0-30	952.43	N.A.	46.50
0-40	1400.48	N.A.	68.40
0-60	1834.26	N.A.	89.50
0-80	2033.62	N.A.	99.30
0-90	2048.69	N.A.	100.00
10-90	1941.85	N.A.	94.80
20-40	965.39	N.A.	47.10
20-50	1205.04	N.A.	58.80
40-70	565.90	N.A.	27.60
60-80	199.36	N.A.	9.70
70-80	67.24	N.A.	3.30
80-90	15.07	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	2048.69	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	106.84
10-20	328.25
20-30	517.34
30-40	448.05
40-50	239.65
50-60	194.13
60-70	132.12
70-80	67.24
80-90	15.07
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

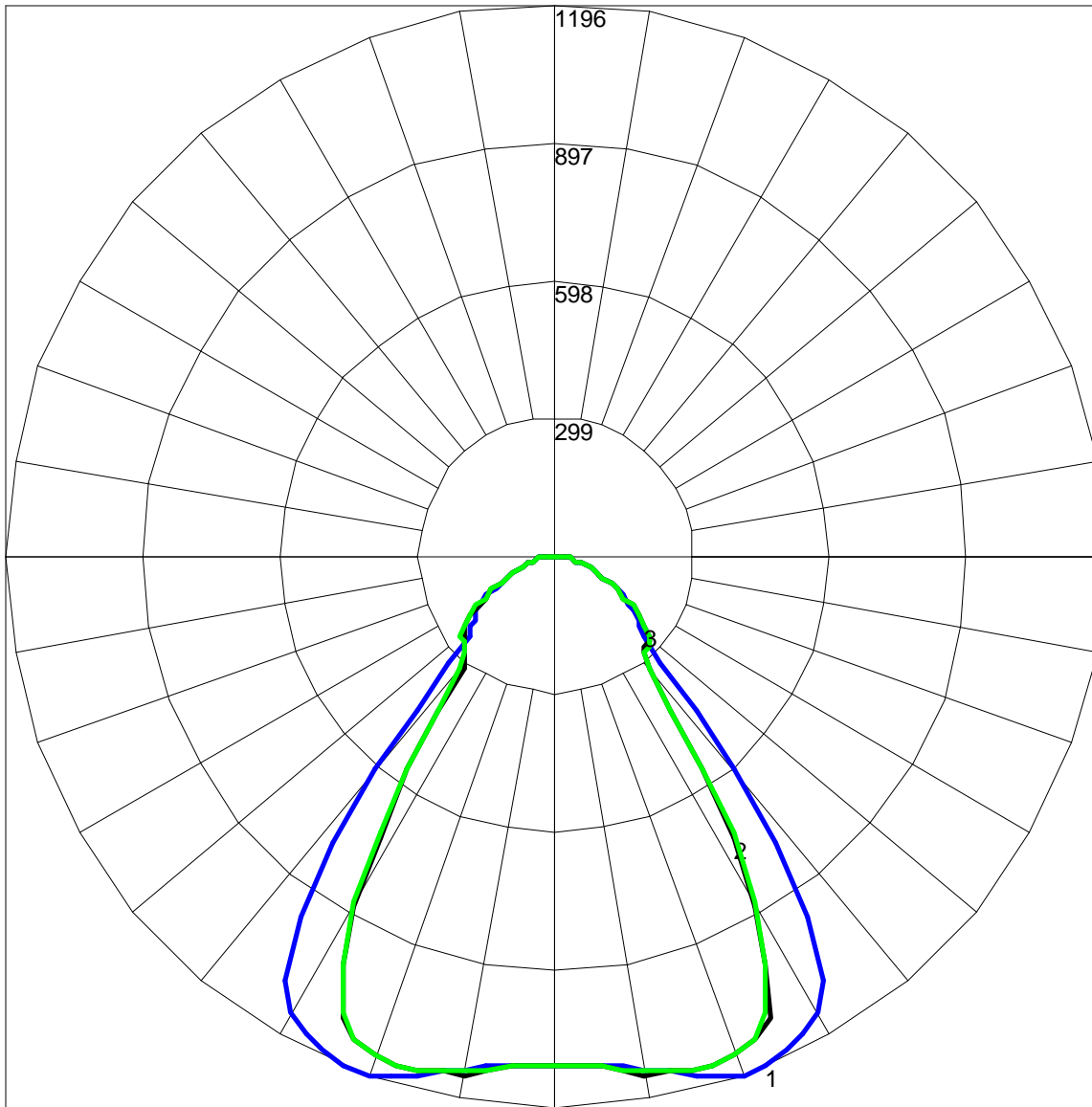
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	108	105	102	99	101	98	96	97	95	93	94	92	90	88
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	78
3	96	87	80	75	94	86	79	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 = 1195.838 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)