

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SGV8LEDLX-100L35KMDE1-AR8664LXSG.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST]101650171CRT-025\_M-100L-Gen2  
[TESTLAB]Intertek  
[ISSUE DATE]08/03/2015  
[UPDATE]08/03/2017  
[LAB-REF LUMCAT]CRT1507151109-002\_M-100L-Gen2  
[MANUFAC]SPECTRUM LIGHTING  
[LUMCAT]SGV8LEDLX-100L-35K-MD-E1-AR8664LX-SG  
[LUMINAIRE]RECESSED 8" OPEN APERTURE DOWNLIGHT  
[TRIM]SEMI-DIFFUSE ANODIZED ALUM, MEDIUM BEAM  
[OTHER] 52.1 Degree Beam Angle  
[OTHER]ACTIVE COOLING  
[LAMP]N/A  
[LAMPCAT]N/A  
[OTHER]N/A  
[OTHER]Total Luminaire Watts is approximate  
[OTHER]CCT Multipliers: 2700K x 0.959, 3000K x 0.979, 4000K x 1.031  
[OTHER]Catalog Designation Update: 90W changed to 100L  
[OTHER]This report updated by Spectrum Lighting, scaled from Gen2 170L  
[\_CONVERT] Photometric web converted from original test data

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5313
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	62
Total Luminaire Watts	86.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.88
Spacing Criterion (90-270)	0.88
Spacing Criterion (Diagonal)	0.84
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.62 ft (Diameter)
Luminous Width (90-270)	0.62 ft (Diameter)
Luminous Height	0.00 ft

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : SGV8LEDLX-100L35KMDE1-AR8664LXSG.IES**

**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	5676	6968	6695
55	805	2302	1042
65	0	2176	521
75	0	4781	1064
85	0	12618	0

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : SGV8LEDLX-100L35KMDE1-AR8664LXSG.IES**

**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	6589.005	6589.005	6589.005	6589.005	6589.005	6589.005	6589.005	6589.005	6589.005	6589.005
2.5	6813.880	6823.160	6827.384	6831.727	6820.186	6831.727	6827.384	6823.160	6813.880	6823.160
5.0	7167.908	7158.568	7156.367	7151.667	7150.478	7151.667	7156.367	7158.568	7167.908	7158.568
7.5	7233.883	7217.107	7197.237	7193.073	7205.863	7193.073	7197.237	7217.107	7233.883	7217.107
10.0	7097.650	7091.582	7087.179	7055.351	7052.318	7055.351	7087.179	7091.582	7097.650	7091.582
12.5	6752.247	6776.043	6784.253	6771.581	6775.687	6771.581	6784.253	6776.043	6752.247	6776.043
15.0	6282.330	6310.350	6328.852	6311.303	6315.645	6311.303	6328.852	6310.350	6282.330	6310.350
17.5	5712.946	5736.682	5740.193	5744.178	5758.336	5744.178	5740.193	5736.682	5712.946	5736.682
20.0	5143.799	5143.978	5166.881	5167.714	5165.691	5167.714	5166.881	5143.978	5143.799	5143.978
22.5	4536.816	4534.020	4570.249	4556.804	4571.855	4556.804	4570.249	4534.020	4536.816	4534.020
25.0	3887.475	3889.677	3913.473	3903.122	3913.771	3903.122	3913.473	3889.677	3887.475	3889.677
27.5	3219.752	3218.503	3248.308	3233.911	3247.594	3233.911	3248.308	3218.503	3219.752	3218.503
30.0	2564.344	2553.636	2581.953	2570.174	2591.234	2570.174	2581.953	2553.636	2564.344	2553.636
32.5	1998.647	1979.551	1984.489	1991.509	2002.871	1991.509	1984.489	1979.551	1998.647	1979.551
35.0	1463.470	1464.065	1462.816	1460.674	1476.438	1460.674	1462.816	1464.065	1463.470	1464.065
37.5	955.003	982.785	976.836	959.167	992.602	959.167	976.836	982.785	955.003	982.785
40.0	530.241	559.510	569.266	552.371	569.742	552.371	569.266	559.510	530.241	559.510
42.5	231.894	235.880	251.943	270.742	257.892	270.742	251.943	235.880	231.894	235.880
45.0	112.675	124.157	138.316	134.984	132.902	134.984	138.316	124.157	112.675	124.157
47.5	66.689	80.610	106.132	85.547	80.848	85.547	106.132	80.610	66.689	80.610
50.0	33.256	61.037	74.840	57.527	45.154	57.527	74.840	61.037	33.256	61.037
52.5	18.918	35.159	51.399	35.635	27.307	35.635	51.399	35.159	18.918	35.159
55.0	12.969	23.737	37.063	20.881	16.777	20.881	37.063	23.737	12.969	23.737
57.5	5.235	19.275	29.686	13.028	6.960	13.028	29.686	19.275	5.235	19.275
60.0	0.000	16.122	24.392	10.232	3.332	10.232	24.392	16.122	0.000	16.122
62.5	0.000	11.958	24.213	12.315	1.844	12.315	24.213	11.958	0.000	11.958
65.0	0.000	10.232	25.819	16.836	6.187	16.836	25.819	10.232	0.000	10.232
67.5	0.000	7.794	29.448	21.119	8.091	21.119	29.448	7.794	0.000	7.794
70.0	0.000	7.972	32.005	20.584	10.292	20.584	32.005	7.972	0.000	7.972
72.5	0.000	7.972	35.456	22.249	8.983	22.249	35.456	7.972	0.000	7.972
75.0	0.000	8.745	34.743	22.428	7.734	22.428	34.743	8.745	0.000	8.745
77.5	0.000	8.507	35.218	23.796	4.045	23.796	35.218	8.507	0.000	8.507
80.0	0.000	8.151	35.040	21.179	2.439	21.179	35.040	8.151	0.000	8.151
82.5	0.000	2.855	34.683	21.179	0.000	21.179	34.683	2.855	0.000	2.855
85.0	0.000	0.000	30.875	19.156	0.000	19.156	30.875	0.000	0.000	0.000
87.5	0.000	0.000	27.841	17.788	0.000	17.788	27.841	0.000	0.000	0.000
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	6589.005	6589.005	6589.005	6589.005	6589.005	6589.005	6589.005
2.5	6827.384	6831.727	6820.186	6831.727	6827.384	6823.160	6813.880
5.0	7156.367	7151.667	7150.478	7151.667	7156.367	7158.568	7167.908
7.5	7197.237	7193.073	7205.863	7193.073	7197.237	7217.107	7233.883
10.0	7087.179	7055.351	7052.318	7055.351	7087.179	7091.582	7097.650
12.5	6784.253	6771.581	6775.687	6771.581	6784.253	6776.043	6752.247
15.0	6328.852	6311.303	6315.645	6311.303	6328.852	6310.350	6282.330
17.5	5740.193	5744.178	5758.336	5744.178	5740.193	5736.682	5712.946
20.0	5166.881	5167.714	5165.691	5167.714	5166.881	5143.978	5143.799
22.5	4570.249	4556.804	4571.855	4556.804	4570.249	4534.020	4536.816
25.0	3913.473	3903.122	3913.771	3903.122	3913.473	3889.677	3887.475
27.5	3248.308	3233.911	3247.594	3233.911	3248.308	3218.503	3219.752
30.0	2581.953	2570.174	2591.234	2570.174	2581.953	2553.636	2564.344

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : SGV8LEDLX-100L35KMDE1-AR8664LXSG.IES**

**CANDELA TABULATION - (Cont.)**

<b>32.5</b>	1984.489	1991.509	2002.871	1991.509	1984.489	1979.551	1998.647
<b>35.0</b>	1462.816	1460.674	1476.438	1460.674	1462.816	1464.065	1463.470
<b>37.5</b>	976.836	959.167	992.602	959.167	976.836	982.785	955.003
<b>40.0</b>	569.266	552.371	569.742	552.371	569.266	559.510	530.241
<b>42.5</b>	251.943	270.742	257.892	270.742	251.943	235.880	231.894
<b>45.0</b>	138.316	134.984	132.902	134.984	138.316	124.157	112.675
<b>47.5</b>	106.132	85.547	80.848	85.547	106.132	80.610	66.689
<b>50.0</b>	74.840	57.527	45.154	57.527	74.840	61.037	33.256
<b>52.5</b>	51.399	35.635	27.307	35.635	51.399	35.159	18.918
<b>55.0</b>	37.063	20.881	16.777	20.881	37.063	23.737	12.969
<b>57.5</b>	29.686	13.028	6.960	13.028	29.686	19.275	5.235
<b>60.0</b>	24.392	10.232	3.332	10.232	24.392	16.122	0.000
<b>62.5</b>	24.213	12.315	1.844	12.315	24.213	11.958	0.000
<b>65.0</b>	25.819	16.836	6.187	16.836	25.819	10.232	0.000
<b>67.5</b>	29.448	21.119	8.091	21.119	29.448	7.794	0.000
<b>70.0</b>	32.005	20.584	10.292	20.584	32.005	7.972	0.000
<b>72.5</b>	35.456	22.249	8.983	22.249	35.456	7.972	0.000
<b>75.0</b>	34.743	22.428	7.734	22.428	34.743	8.745	0.000
<b>77.5</b>	35.218	23.796	4.045	23.796	35.218	8.507	0.000
<b>80.0</b>	35.040	21.179	2.439	21.179	35.040	8.151	0.000
<b>82.5</b>	34.683	21.179	0.000	21.179	34.683	2.855	0.000
<b>85.0</b>	30.875	19.156	0.000	19.156	30.875	0.000	0.000
<b>87.5</b>	27.841	17.788	0.000	17.788	27.841	0.000	0.000
<b>90.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : SGV8LEDLX-100L35KMDE1-AR8664LXSG.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	2416.71	N.A.	45.50
0-30	4181.21	N.A.	78.70
0-40	5097.34	N.A.	95.90
0-60	5267.88	N.A.	99.20
0-80	5300.18	N.A.	99.80
0-90	5312.93	N.A.	100.00
10-90	4635.31	N.A.	87.20
20-40	2680.63	N.A.	50.50
20-50	2826.17	N.A.	53.20
40-70	184.65	N.A.	3.50
60-80	32.29	N.A.	0.60
70-80	18.19	N.A.	0.30
80-90	12.75	N.A.	0.20
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	5312.93	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	677.61
10-20	1739.1
20-30	1764.5
30-40	916.13
40-50	145.54
50-60	25.00
60-70	14.10
70-80	18.19
80-90	12.75
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

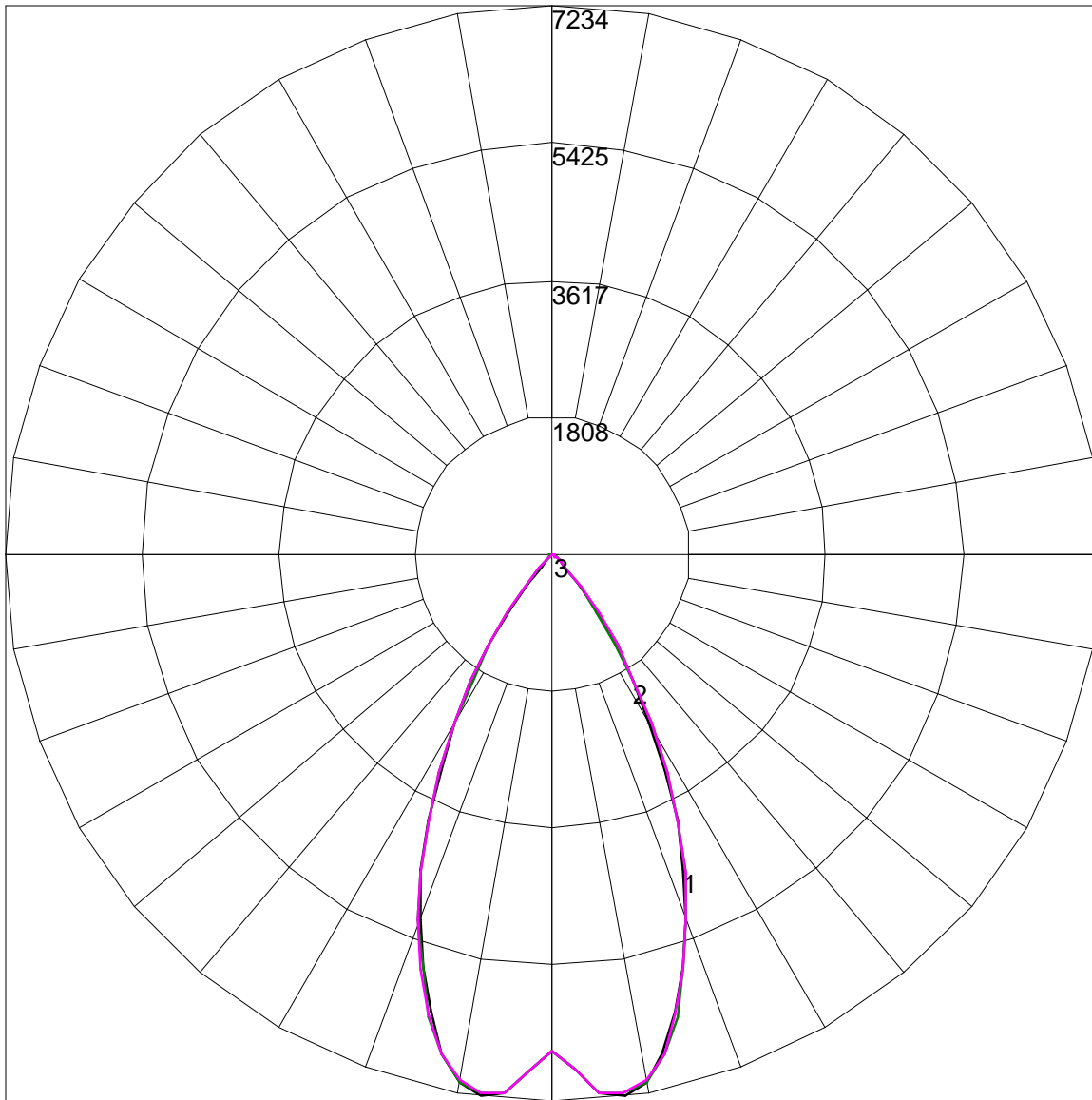
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : SGV8LEDLX-100L35KMDE1-AR8664LXSG.IES**

**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	114	111	109	106	111	109	107	105	105	103	102	101	100	99	98	97	96	94
2	108	104	100	97	106	102	99	96	99	96	94	96	94	92	93	91	90	88
3	103	97	93	89	102	96	92	88	93	90	87	91	88	85	89	86	84	83
4	99	92	86	82	97	90	86	82	88	84	81	86	83	80	85	82	79	78
5	94	86	81	77	93	85	80	76	84	79	76	82	78	75	80	77	74	73
6	90	81	76	72	88	81	75	72	79	75	71	78	74	71	77	73	70	69
7	86	77	71	67	84	76	71	67	75	70	67	74	70	67	73	69	66	65
8	82	73	67	64	81	72	67	63	71	67	63	70	66	63	69	66	63	61
9	78	69	64	60	77	69	64	60	68	63	60	67	63	59	66	62	59	58
10	75	66	60	57	74	65	60	57	65	60	57	64	60	56	63	59	56	55

POLAR GRAPH



Maximum Candela = 7233.883 Located At Horizontal Angle = 0, Vertical Angle = 7.5

- # 1 - Vertical Plane Through Horizontal Angles (0 - 180)
- # 2 - Vertical Plane Through Horizontal Angles (45 - 225)
- # 3 - Vertical Plane Through Horizontal Angles (90 - 270)