

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SGV8LEDLX-170L35KMDE1-AR8664LXSG.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST]101650171CRT-025\_M-Gen2  
[TESTLAB]Intertek  
[ISSUE DATE]08/03/2015  
[UPDATE]08/03/2017  
[LAB-REF LUMCAT]CRT1507151109-002\_M-Gen2  
[MANUFAC]SPECTRUM LIGHTING  
[LUMCAT]SGV8LEDLX-170L-35K-MD-E1-AR8664LX-SG  
[LUMINAIRE]RECESSED 8" OPEN APERTURE DOWNLIGHT  
[TRIM]SEMI-DIFFUSE ANODIZED ALUM, MEDIUM BEAM  
[OTHER]ACTIVE COOLING  
[OTHER]52.1 Degree Beam Angle  
[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: 142W changed to 170L  
[OTHER]This report updated by Spectrum Lighting, Scaled to Gen2

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	8670
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	63
Total Luminaire Watts	138.2
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

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	9262	11370	10925
55	1314	3756	1700
65	0	3551	851
75	0	7803	1737
85	0	20592	0

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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	10752.289	10752.289	10752.289	10752.289	10752.289	10752.289	10752.289	10752.289	10752.289	10752.289
2.5	11119.252	11134.396	11141.289	11148.376	11129.542	11148.376	11141.289	11134.396	11119.252	11134.396
5.0	11696.975	11681.733	11678.141	11670.472	11668.530	11670.472	11678.141	11681.733	11696.975	11681.733
7.5	11804.637	11777.260	11744.835	11738.040	11758.912	11738.040	11744.835	11777.260	11804.637	11777.260
10.0	11582.323	11572.421	11565.237	11513.299	11508.348	11513.299	11565.237	11572.421	11582.323	11572.421
12.5	11018.677	11057.509	11070.906	11050.228	11056.926	11050.228	11070.906	11057.509	11018.677	11057.509
15.0	10251.842	10297.567	10327.759	10299.120	10306.207	10299.120	10327.759	10297.567	10251.842	10297.567
17.5	9322.689	9361.424	9367.152	9373.656	9396.761	9373.656	9367.152	9361.424	9322.689	9361.424
20.0	8393.925	8394.216	8431.592	8432.951	8429.650	8432.951	8431.592	8394.216	8393.925	8394.216
22.5	7403.418	7398.855	7457.977	7436.037	7460.598	7436.037	7457.977	7398.855	7403.418	7398.855
25.0	6343.790	6347.382	6386.214	6369.322	6386.699	6369.322	6386.214	6347.382	6343.790	6347.382
27.5	5254.164	5252.125	5300.762	5277.269	5299.597	5277.269	5300.762	5252.125	5254.164	5252.125
30.0	4184.633	4167.159	4213.369	4194.147	4228.513	4194.147	4213.369	4167.159	4184.633	4167.159
32.5	3261.500	3230.337	3238.395	3249.850	3268.392	3249.850	3238.395	3230.337	3261.500	3230.337
35.0	2388.168	2389.139	2387.100	2383.605	2409.331	2383.605	2387.100	2389.139	2388.168	2389.139
37.5	1558.425	1603.762	1594.054	1565.221	1619.780	1565.221	1594.054	1603.762	1558.425	1603.762
40.0	865.274	913.037	928.959	901.388	929.735	901.388	928.959	913.037	865.274	913.037
42.5	378.418	384.922	411.134	441.811	420.842	441.811	411.134	384.922	378.418	384.922
45.0	183.870	202.606	225.711	220.275	216.877	220.275	225.711	202.606	183.870	202.606
47.5	108.827	131.543	173.191	139.601	131.932	139.601	173.191	131.543	108.827	131.543
50.0	54.268	99.604	122.127	93.876	73.684	93.876	122.127	99.604	54.268	99.604
52.5	30.871	57.374	83.877	58.151	44.560	58.151	83.877	57.374	30.871	57.374
55.0	21.163	38.735	60.481	34.075	27.377	34.075	60.481	38.735	21.163	38.735
57.5	8.543	31.454	48.443	21.261	11.358	21.261	48.443	31.454	8.543	31.454
60.0	0.000	26.309	39.803	16.698	5.436	16.698	39.803	26.309	0.000	26.309
62.5	0.000	19.513	39.512	20.096	3.009	20.096	39.512	19.513	0.000	19.513
65.0	0.000	16.698	42.133	27.474	10.096	27.474	42.133	16.698	0.000	16.698
67.5	0.000	12.717	48.055	34.463	13.203	34.463	48.055	12.717	0.000	12.717
70.0	0.000	13.009	52.229	33.590	16.795	33.590	52.229	13.009	0.000	13.009
72.5	0.000	13.009	57.860	36.308	14.659	36.308	57.860	13.009	0.000	13.009
75.0	0.000	14.271	56.695	36.599	12.620	36.599	56.695	14.271	0.000	14.271
77.5	0.000	13.882	57.471	38.832	6.601	38.832	57.471	13.882	0.000	13.882
80.0	0.000	13.300	57.180	34.560	3.980	34.560	57.180	13.300	0.000	13.300
82.5	0.000	4.660	56.598	34.560	0.000	34.560	56.598	4.660	0.000	4.660
85.0	0.000	0.000	50.385	31.260	0.000	31.260	50.385	0.000	0.000	0.000
87.5	0.000	0.000	45.433	29.027	0.000	29.027	45.433	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. Horizontal Angles  
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	10752.289	10752.289	10752.289	10752.289	10752.289	10752.289	10752.289
2.5	11141.289	11148.376	11129.542	11148.376	11141.289	11134.396	11119.252
5.0	11678.141	11670.472	11668.530	11670.472	11678.141	11681.733	11696.975
7.5	11744.835	11738.040	11758.912	11738.040	11744.835	11777.260	11804.637
10.0	11565.237	11513.299	11508.348	11513.299	11565.237	11572.421	11582.323
12.5	11070.906	11050.228	11056.926	11050.228	11070.906	11057.509	11018.677
15.0	10327.759	10299.120	10306.207	10299.120	10327.759	10297.567	10251.842
17.5	9367.152	9373.656	9396.761	9373.656	9367.152	9361.424	9322.689
20.0	8431.592	8432.951	8429.650	8432.951	8431.592	8394.216	8393.925
22.5	7457.977	7436.037	7460.598	7436.037	7457.977	7398.855	7403.418
25.0	6386.214	6369.322	6386.699	6369.322	6386.214	6347.382	6343.790
27.5	5300.762	5277.269	5299.597	5277.269	5300.762	5252.125	5254.164
30.0	4213.369	4194.147	4228.513	4194.147	4213.369	4167.159	4184.633

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**CANDELA TABULATION - (Cont.)**

32.5	3238.395	3249.850	3268.392	3249.850	3238.395	3230.337	3261.500
35.0	2387.100	2383.605	2409.331	2383.605	2387.100	2389.139	2388.168
37.5	1594.054	1565.221	1619.780	1565.221	1594.054	1603.762	1558.425
40.0	928.959	901.388	929.735	901.388	928.959	913.037	865.274
42.5	411.134	441.811	420.842	441.811	411.134	384.922	378.418
45.0	225.711	220.275	216.877	220.275	225.711	202.606	183.870
47.5	173.191	139.601	131.932	139.601	173.191	131.543	108.827
50.0	122.127	93.876	73.684	93.876	122.127	99.604	54.268
52.5	83.877	58.151	44.560	58.151	83.877	57.374	30.871
55.0	60.481	34.075	27.377	34.075	60.481	38.735	21.163
57.5	48.443	21.261	11.358	21.261	48.443	31.454	8.543
60.0	39.803	16.698	5.436	16.698	39.803	26.309	0.000
62.5	39.512	20.096	3.009	20.096	39.512	19.513	0.000
65.0	42.133	27.474	10.096	27.474	42.133	16.698	0.000
67.5	48.055	34.463	13.203	34.463	48.055	12.717	0.000
70.0	52.229	33.590	16.795	33.590	52.229	13.009	0.000
72.5	57.860	36.308	14.659	36.308	57.860	13.009	0.000
75.0	56.695	36.599	12.620	36.599	56.695	14.271	0.000
77.5	57.471	38.832	6.601	38.832	57.471	13.882	0.000
80.0	57.180	34.560	3.980	34.560	57.180	13.300	0.000
82.5	56.598	34.560	0.000	34.560	56.598	4.660	0.000
85.0	50.385	31.260	0.000	31.260	50.385	0.000	0.000
87.5	45.433	29.027	0.000	29.027	45.433	0.000	0.000
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	3943.72	N.A.	45.50
0-30	6823.13	N.A.	78.70
0-40	8318.11	N.A.	95.90
0-60	8596.41	N.A.	99.20
0-80	8649.11	N.A.	99.80
0-90	8669.92	N.A.	100.00
10-90	7564.15	N.A.	87.20
20-40	4374.4	N.A.	50.50
20-50	4611.89	N.A.	53.20
40-70	301.31	N.A.	3.50
60-80	52.70	N.A.	0.60
70-80	29.69	N.A.	0.30
80-90	20.80	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	8669.92	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	1105.77
10-20	2837.95
20-30	2879.41
30-40	1494.99
40-50	237.50
50-60	40.80
60-70	23.01
70-80	29.69
80-90	20.80
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

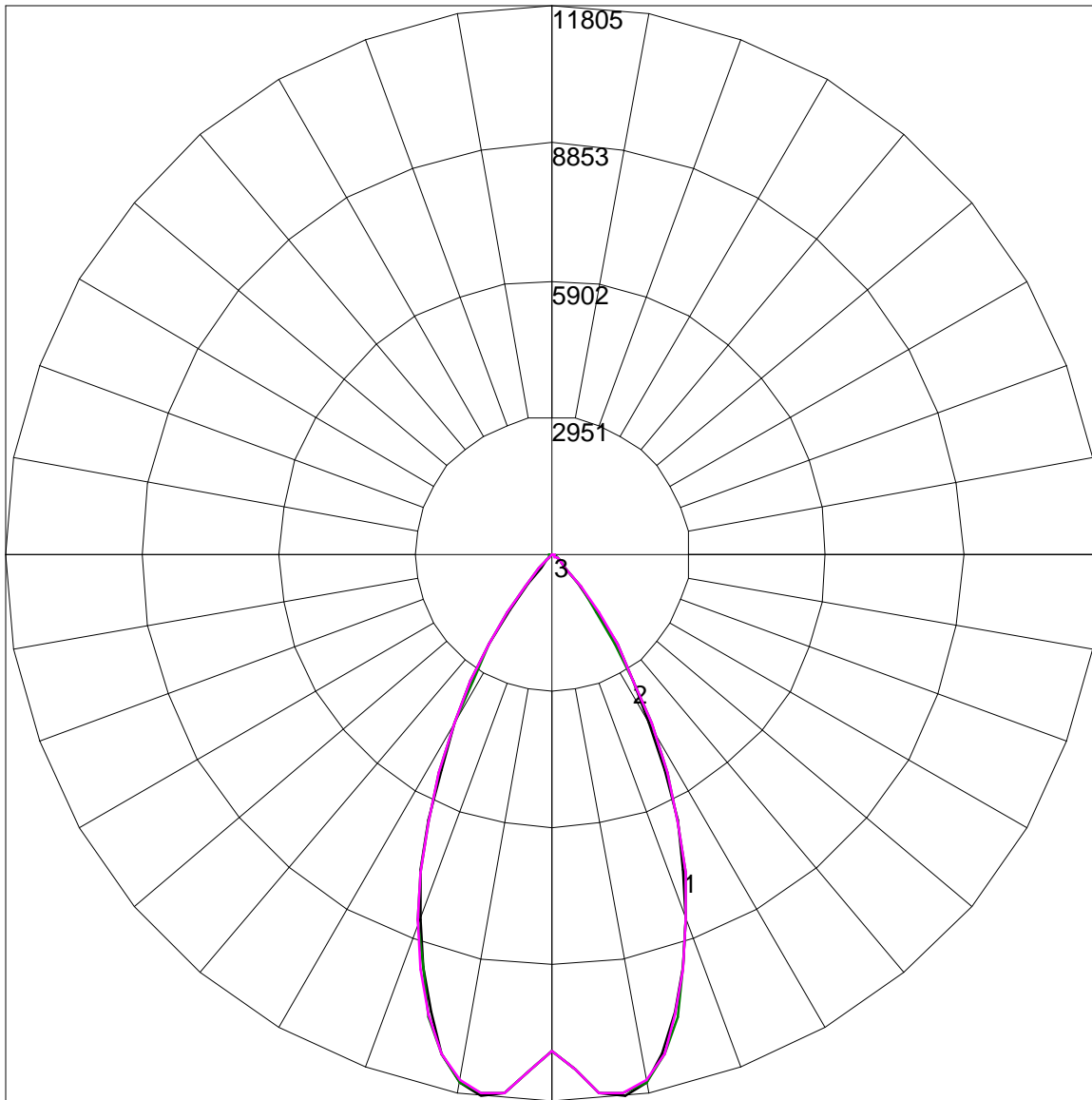
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	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 = 11804.637 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)