

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SGV8LEDLX-100L35KWDE1-AR8664LXSG.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST]101650171CRT-024_M-100L-Gen2
[TESTLAB]Intertek
[ISSUE DATE]08/03/2015
[UPDATE]08/03/2017
[LAB-REF LUMCAT]CRT1507151109-003_M-100L-Gen2
[MANUFAC]SPECTRUM LIGHTING
[LUMCAT]SGV8LEDLX-100L-35K-WD-E1-AR8664LX-SG
[LUMINAIRE]RECESSED 8" OPEN APERTURE DOWNLIGHT
[TRIM]SEMI-DIFFUSE ANODIZED ALUM, WIDE BEAM
[OTHER]ACTIVE COOLING
[OTHER]64 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: 90W changed to 100L
[OTHER]This report updated by Spectrum Lighting, scaled from Gen2 170L

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	7199
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	84
Total Luminaire Watts	86.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.02
Spacing Criterion (90-270)	1.02
Spacing Criterion (Diagonal)	0.94
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	19128	17780	18106
55	3092	2786	2808
65	0	0	0
75	0	0	0
85	0	0	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	7344.060	7344.060	7344.060	7344.060	7344.060	7344.060	7344.060	7344.060	7344.060	7344.060
2.5	7285.819	7251.552	7238.821	7241.498	7248.755	7241.498	7238.821	7251.552	7285.819	7251.552
5.0	7148.931	7139.293	7119.959	7094.675	7115.199	7094.675	7119.959	7139.293	7148.931	7139.293
7.5	7038.576	7032.984	7044.882	7012.995	7011.567	7012.995	7044.882	7032.984	7038.576	7032.984
10.0	6950.291	6924.829	6961.536	6965.700	6978.430	6965.700	6961.536	6924.829	6950.291	6924.829
12.5	6882.532	6855.404	6858.021	6878.249	6897.047	6878.249	6858.021	6855.404	6882.532	6855.404
15.0	6782.885	6767.655	6777.530	6806.503	6823.220	6806.503	6777.530	6767.655	6782.885	6767.655
17.5	6697.754	6680.739	6694.779	6721.252	6749.570	6721.252	6694.779	6680.739	6697.754	6680.739
20.0	6509.882	6521.305	6522.494	6561.579	6582.579	6561.579	6522.494	6521.305	6509.882	6521.305
22.5	6149.012	6138.720	6144.788	6204.576	6196.783	6204.576	6144.788	6138.720	6149.012	6138.720
25.0	5638.999	5634.061	5643.342	5654.110	5686.651	5654.110	5643.342	5634.061	5638.999	5634.061
27.5	5007.505	5008.636	4997.213	5007.982	5027.018	5007.982	4997.213	5008.636	5007.505	5008.636
30.0	4314.916	4285.289	4245.847	4266.431	4259.291	4266.431	4245.847	4285.289	4314.916	4285.289
32.5	3534.993	3515.897	3459.381	3473.183	3475.087	3473.183	3459.381	3515.897	3534.993	3515.897
35.0	2730.680	2728.716	2670.119	2685.229	2684.039	2685.229	2670.119	2728.716	2730.680	2728.716
37.5	1916.194	1924.998	1893.230	1888.471	1881.868	1888.471	1893.230	1924.998	1916.194	1924.998
40.0	1220.450	1208.790	1197.249	1182.138	1189.872	1182.138	1197.249	1208.790	1220.450	1208.790
42.5	678.967	657.252	634.230	658.204	654.159	658.204	634.230	657.252	678.967	657.252
45.0	379.729	365.986	352.958	354.505	359.442	354.505	352.958	365.986	379.729	365.986
47.5	222.673	212.143	202.030	199.413	206.135	199.413	202.030	212.143	222.673	212.143
50.0	135.698	128.381	121.956	121.241	122.848	121.241	121.956	128.381	135.698	128.381
52.5	81.204	80.253	75.970	74.661	75.970	74.661	75.970	80.253	81.204	80.253
55.0	49.794	48.188	44.856	44.558	45.213	44.558	44.856	48.188	49.794	48.188
57.5	28.020	26.830	26.116	26.175	26.830	26.175	26.116	26.830	28.020	26.830
60.0	14.040	15.111	14.515	13.981	12.731	13.981	14.515	15.111	14.040	15.111
62.5	4.819	4.998	5.830	6.068	4.224	6.068	5.830	4.998	4.819	4.998
65.0	0.000	0.892	0.000	0.000	0.000	0.000	0.000	0.892	0.000	0.892
67.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
70.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
72.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
75.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
77.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
80.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
82.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
85.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
87.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	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	7344.060	7344.060	7344.060	7344.060	7344.060	7344.060	7344.060
2.5	7238.821	7241.498	7248.755	7241.498	7238.821	7251.552	7285.819
5.0	7119.959	7094.675	7115.199	7094.675	7119.959	7139.293	7148.931
7.5	7044.882	7012.995	7011.567	7012.995	7044.882	7032.984	7038.576
10.0	6961.536	6965.700	6978.430	6965.700	6961.536	6924.829	6950.291
12.5	6858.021	6878.249	6897.047	6878.249	6858.021	6855.404	6882.532
15.0	6777.530	6806.503	6823.220	6806.503	6777.530	6767.655	6782.885
17.5	6694.779	6721.252	6749.570	6721.252	6694.779	6680.739	6697.754
20.0	6522.494	6561.579	6582.579	6561.579	6522.494	6521.305	6509.882
22.5	6144.788	6204.576	6196.783	6204.576	6144.788	6138.720	6149.012
25.0	5643.342	5654.110	5686.651	5654.110	5643.342	5634.061	5638.999
27.5	4997.213	5007.982	5027.018	5007.982	4997.213	5008.636	5007.505
30.0	4245.847	4266.431	4259.291	4266.431	4245.847	4285.289	4314.916

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CANDELA TABULATION - (Cont.)

32.5	3459.381	3473.183	3475.087	3473.183	3459.381	3515.897	3534.993
35.0	2670.119	2685.229	2684.039	2685.229	2670.119	2728.716	2730.680
37.5	1893.230	1888.471	1881.868	1888.471	1893.230	1924.998	1916.194
40.0	1197.249	1182.138	1189.872	1182.138	1197.249	1208.790	1220.450
42.5	634.230	658.204	654.159	658.204	634.230	657.252	678.967
45.0	352.958	354.505	359.442	354.505	352.958	365.986	379.729
47.5	202.030	199.413	206.135	199.413	202.030	212.143	222.673
50.0	121.956	121.241	122.848	121.241	121.956	128.381	135.698
52.5	75.970	74.661	75.970	74.661	75.970	80.253	81.204
55.0	44.856	44.558	45.213	44.558	44.856	48.188	49.794
57.5	26.116	26.175	26.830	26.175	26.116	26.830	28.020
60.0	14.515	13.981	12.731	13.981	14.515	15.111	14.040
62.5	5.830	6.068	4.224	6.068	5.830	4.998	4.819
65.0	0.000	0.000	0.000	0.000	0.000	0.892	0.000
67.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
70.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
72.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
75.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
77.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
80.0	0.119	0.000	0.000	0.000	0.000	0.000	0.000
82.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
85.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
87.5	0.000	0.000	0.000	0.000	0.000	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	2590.89	N.A.	36.00
0-30	5131.88	N.A.	71.30
0-40	6793.43	N.A.	94.40
0-60	7195.9	N.A.	100.00
0-80	7198.97	N.A.	100.00
0-90	7198.97	N.A.	100.00
10-90	6523.78	N.A.	90.60
20-40	4202.54	N.A.	58.40
20-50	4556.59	N.A.	63.30
40-70	405.54	N.A.	5.60
60-80	3.07	N.A.	0.00
70-80	0.00	N.A.	0.00
80-90	0.00	N.A.	0.00
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	7198.97	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	675.19
10-20	1915.7
20-30	2540.99
30-40	1661.55
40-50	354.05
50-60	48.42
60-70	3.07
70-80	0.00
80-90	0.00
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

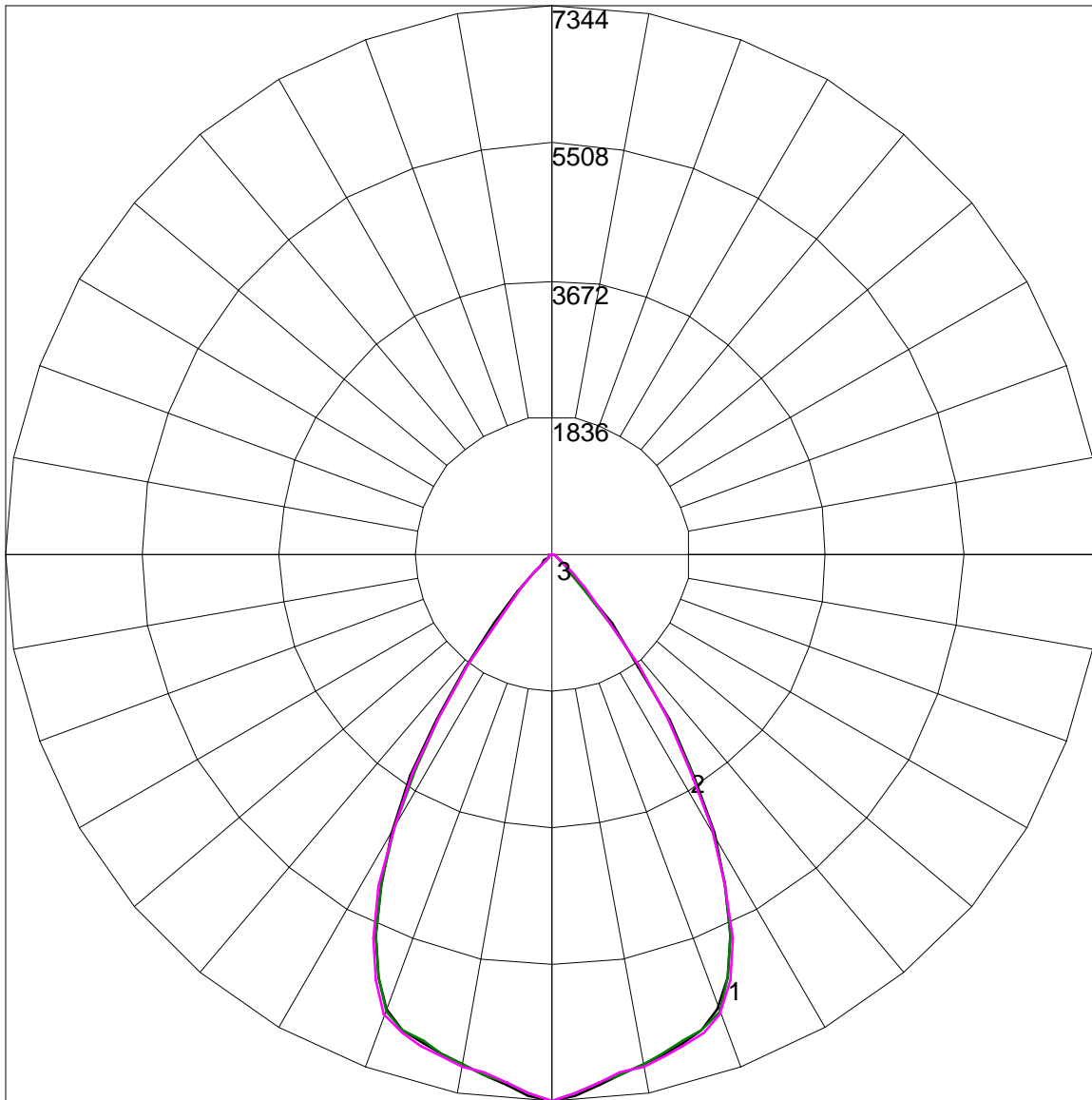
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	94
2	108	103	99	96	106	101	98	95	98	95	93	95	93	91	92	90	89	87
3	103	96	91	87	101	95	90	87	92	88	85	90	87	84	87	85	83	81
4	97	90	84	80	96	89	84	80	87	82	79	85	81	78	83	79	77	75
5	92	84	78	74	91	83	78	74	81	77	73	80	75	72	78	74	72	70
6	88	79	73	68	86	78	72	68	76	71	68	75	71	67	74	70	67	65
7	83	74	68	64	82	73	68	64	72	67	63	71	66	63	70	66	62	61
8	79	70	64	59	78	69	63	59	68	63	59	67	62	59	66	62	59	57
9	75	66	60	56	74	65	59	56	64	59	55	63	59	55	62	58	55	54
10	72	62	56	52	71	61	56	52	61	55	52	60	55	52	59	55	52	50

POLAR GRAPH



Maximum Candela = 7344.06 Located At Horizontal Angle = 0, Vertical Angle = 0

1 - Vertical Plane Through Horizontal Angles (0 - 180)

2 - Vertical Plane Through Horizontal Angles (45 - 225)

3 - Vertical Plane Through Horizontal Angles (90 - 270)