

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SGV8LEDLX-170L35KWDE1-AR8664LXSG.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST]101650171CRT-024_M-Gen2
[TESTLAB]Intertek
[ISSUE DATE]08/03/2015
[UPDATE]08/03/2017
[LAB-REF LUMCAT]CRT1507151109-003-Gen2
[MANUFAC]SPECTRUM LIGHTING
[LUMCAT]SGV8LEDLX-170L-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: 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	11748
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	85
Total Luminaire Watts	138.2
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	31215	29014	29547
55	5046	4546	4582
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	11984.429	11984.429	11984.429	11984.429	11984.429	11984.429	11984.429	11984.429	11984.429	11984.429
2.5	11889.387	11833.469	11812.694	11817.063	11828.907	11817.063	11812.694	11833.469	11889.387	11833.469
5.0	11666.006	11650.279	11618.728	11577.469	11610.962	11577.469	11618.728	11650.279	11666.006	11650.279
7.5	11485.923	11476.797	11496.213	11444.179	11441.849	11444.179	11496.213	11476.797	11485.923	11476.797
10.0	11341.856	11300.306	11360.204	11367.000	11387.775	11367.000	11360.204	11300.306	11341.856	11300.306
12.5	11231.282	11187.014	11191.285	11224.292	11254.970	11224.292	11191.285	11187.014	11231.282	11187.014
15.0	11068.673	11043.821	11059.936	11107.214	11134.493	11107.214	11059.936	11043.821	11068.673	11043.821
17.5	10929.752	10901.987	10924.898	10968.098	11014.308	10968.098	10924.898	10901.987	10929.752	10901.987
20.0	10623.173	10641.812	10643.754	10707.535	10741.805	10707.535	10643.754	10641.812	10623.173	10641.812
22.5	10034.286	10017.491	10027.393	10124.958	10112.241	10124.958	10027.393	10017.491	10034.286	10017.491
25.0	9202.019	9193.961	9209.106	9226.677	9279.780	9226.677	9209.106	9193.961	9202.019	9193.961
27.5	8171.515	8173.359	8154.720	8172.291	8203.357	8172.291	8154.720	8173.359	8171.515	8173.359
30.0	7041.309	6992.964	6928.599	6962.189	6950.540	6962.189	6928.599	6992.964	7041.309	6992.964
32.5	5768.591	5737.428	5645.202	5667.724	5670.831	5667.724	5645.202	5737.428	5768.591	5737.428
35.0	4456.069	4452.865	4357.242	4381.900	4379.958	4381.900	4357.242	4452.865	4456.069	4452.865
37.5	3126.947	3141.315	3089.474	3081.707	3070.932	3081.707	3089.474	3141.315	3126.947	3141.315
40.0	1991.596	1972.568	1953.735	1929.077	1941.697	1929.077	1953.735	1972.568	1991.596	1972.568
42.5	1107.974	1072.540	1034.970	1074.093	1067.492	1074.093	1034.970	1072.540	1107.974	1072.540
45.0	619.662	597.236	575.976	578.500	586.557	578.500	575.976	597.236	619.662	597.236
47.5	363.370	346.187	329.684	325.412	336.382	325.412	329.684	346.187	363.370	346.187
50.0	221.439	209.499	199.014	197.849	200.470	197.849	199.014	209.499	221.439	209.499
52.5	132.514	130.961	123.971	121.835	123.971	121.835	123.971	130.961	132.514	130.961
55.0	81.256	78.635	73.198	72.713	73.781	72.713	73.198	78.635	81.256	78.635
57.5	45.725	43.783	42.618	42.715	43.783	42.715	42.618	43.783	45.725	43.783
60.0	22.911	24.658	23.688	22.814	20.775	22.814	23.688	24.658	22.911	24.658
62.5	7.863	8.155	9.514	9.902	6.893	9.902	9.514	8.155	7.863	8.155
65.0	0.000	1.456	0.000	0.000	0.000	0.000	0.000	1.456	0.000	1.456
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	11984.429	11984.429	11984.429	11984.429	11984.429	11984.429	11984.429
2.5	11812.694	11817.063	11828.907	11817.063	11812.694	11833.469	11889.387
5.0	11618.728	11577.469	11610.962	11577.469	11618.728	11650.279	11666.006
7.5	11496.213	11444.179	11441.849	11444.179	11496.213	11476.797	11485.923
10.0	11360.204	11367.000	11387.775	11367.000	11360.204	11300.306	11341.856
12.5	11191.285	11224.292	11254.970	11224.292	11191.285	11187.014	11231.282
15.0	11059.936	11107.214	11134.493	11107.214	11059.936	11043.821	11068.673
17.5	10924.898	10968.098	11014.308	10968.098	10924.898	10901.987	10929.752
20.0	10643.754	10707.535	10741.805	10707.535	10643.754	10641.812	10623.173
22.5	10027.393	10124.958	10112.241	10124.958	10027.393	10017.491	10034.286
25.0	9209.106	9226.677	9279.780	9226.677	9209.106	9193.961	9202.019
27.5	8154.720	8172.291	8203.357	8172.291	8154.720	8173.359	8171.515
30.0	6928.599	6962.189	6950.540	6962.189	6928.599	6992.964	7041.309

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CANDELA TABULATION - (Cont.)

32.5	5645.202	5667.724	5670.831	5667.724	5645.202	5737.428	5768.591
35.0	4357.242	4381.900	4379.958	4381.900	4357.242	4452.865	4456.069
37.5	3089.474	3081.707	3070.932	3081.707	3089.474	3141.315	3126.947
40.0	1953.735	1929.077	1941.697	1929.077	1953.735	1972.568	1991.596
42.5	1034.970	1074.093	1067.492	1074.093	1034.970	1072.540	1107.974
45.0	575.976	578.500	586.557	578.500	575.976	597.236	619.662
47.5	329.684	325.412	336.382	325.412	329.684	346.187	363.370
50.0	199.014	197.849	200.470	197.849	199.014	209.499	221.439
52.5	123.971	121.835	123.971	121.835	123.971	130.961	132.514
55.0	73.198	72.713	73.781	72.713	73.198	78.635	81.256
57.5	42.618	42.715	43.783	42.715	42.618	43.783	45.725
60.0	23.688	22.814	20.775	22.814	23.688	24.658	22.911
62.5	9.514	9.902	6.893	9.902	9.514	8.155	7.863
65.0	0.000	0.000	0.000	0.000	0.000	1.456	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	0.194	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	4227.94	N.A.	36.00
0-30	8374.47	N.A.	71.30
0-40	11085.87	N.A.	94.40
0-60	11742.65	N.A.	100.00
0-80	11747.65	N.A.	100.00
0-90	11747.66	N.A.	100.00
10-90	10645.85	N.A.	90.60
20-40	6857.93	N.A.	58.40
20-50	7435.68	N.A.	63.30
40-70	661.78	N.A.	5.60
60-80	5.01	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	11747.66	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1101.81
10-20	3126.14
20-30	4146.53
30-40	2711.4
40-50	577.75
50-60	79.02
60-70	5.01
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

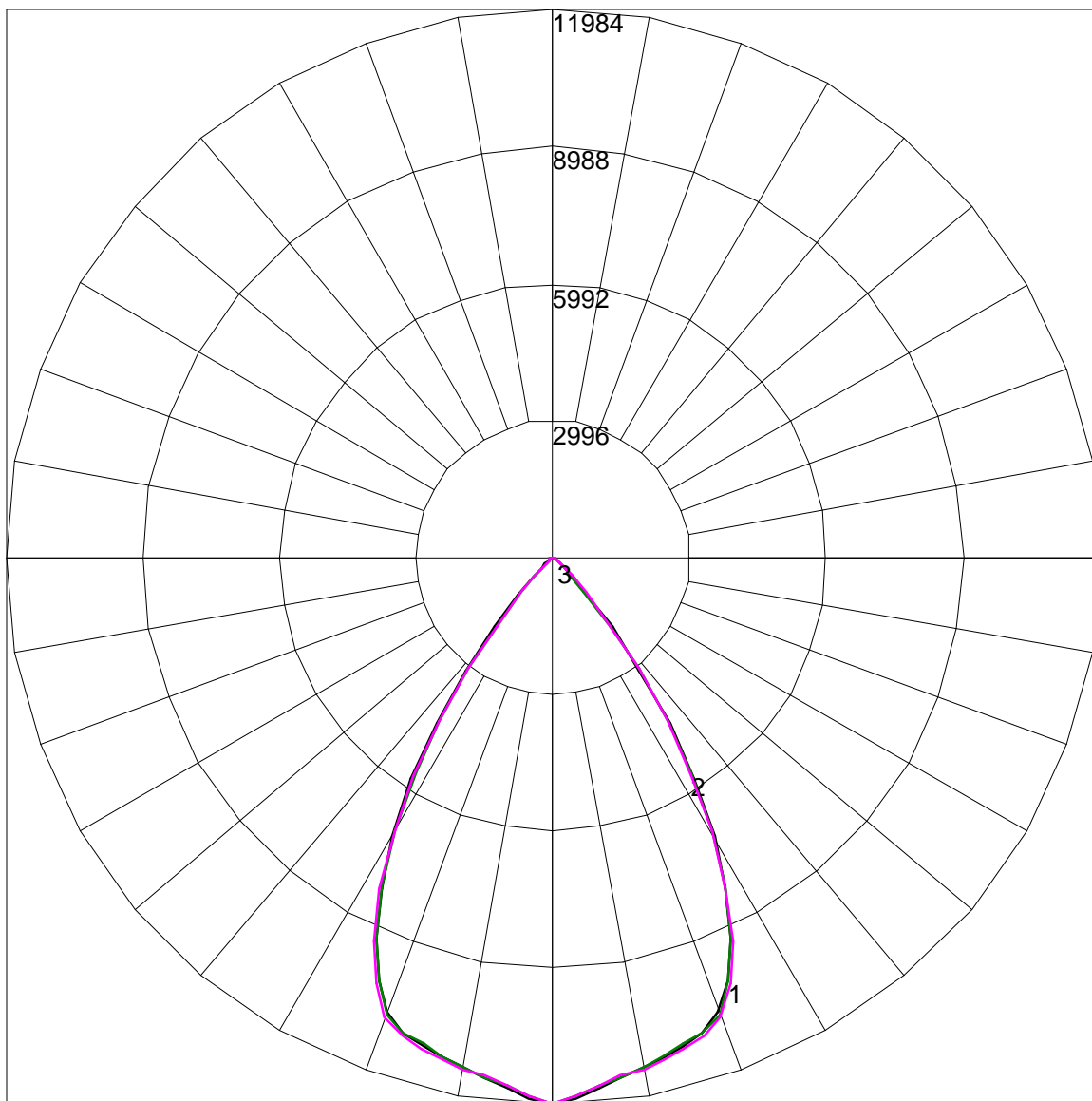
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 11984.429 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)