

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SGV8LEDLX-140L35KMDE1-AR8664LXSG.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST]101650171CRT-025_M-140L-Gen2
[TESTLAB]Intertek
[ISSUE DATE]08/03/2015
[UPDATE]08/03/2017
[LAB-REF LUMCAT]CRT1507151109-002_M-140L-Gen2
[MANUFAC]SPECTRUM LIGHTING
[LUMCAT]SGV8LEDLX-140L-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: 123W changed to 140L
[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	7283
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	62
Total Luminaire Watts	116.9
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	7780	9551	9177
55	1104	3155	1428
65	0	2983	715
75	0	6554	1459
85	0	17297	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	9031.923	9031.923	9031.923	9031.923	9031.923	9031.923	9031.923	9031.923	9031.923	9031.923
2.5	9340.171	9352.893	9358.683	9364.636	9348.815	9364.636	9358.683	9352.893	9340.171	9352.893
5.0	9825.457	9812.652	9809.643	9803.196	9801.566	9803.196	9809.643	9812.652	9825.457	9812.652
7.5	9915.897	9892.898	9865.658	9859.949	9877.482	9859.949	9865.658	9892.898	9915.897	9892.898
10.0	9729.154	9720.834	9714.795	9671.172	9667.013	9671.172	9714.795	9720.834	9729.154	9720.834
12.5	9255.689	9288.307	9299.561	9282.191	9287.818	9282.191	9299.561	9288.307	9255.689	9288.307
15.0	8611.547	8649.956	8675.317	8651.261	8657.214	8651.261	8675.317	8649.956	8611.547	8649.956
17.5	7831.059	7863.596	7868.408	7873.871	7893.280	7873.871	7868.408	7863.596	7831.059	7863.596
20.0	7050.897	7051.142	7082.537	7083.679	7080.906	7083.679	7082.537	7051.142	7050.897	7051.142
22.5	6218.871	6215.038	6264.700	6246.271	6266.902	6246.271	6264.700	6215.038	6218.871	6215.038
25.0	5328.783	5331.800	5364.419	5350.230	5364.827	5350.230	5364.419	5331.800	5328.783	5331.800
27.5	4413.497	4411.785	4452.640	4432.906	4451.662	4432.906	4452.640	4411.785	4413.497	4411.785
30.0	3515.092	3500.413	3539.230	3523.084	3551.951	3523.084	3539.230	3500.413	3515.092	3500.413
32.5	2739.660	2713.483	2720.251	2729.874	2745.450	2729.874	2720.251	2713.483	2739.660	2713.483
35.0	2006.061	2006.877	2005.164	2002.228	2023.838	2002.228	2005.164	2006.877	2006.061	2006.877
37.5	1309.077	1347.160	1339.005	1314.785	1360.615	1314.785	1339.005	1347.160	1309.077	1347.160
40.0	726.830	766.951	780.325	757.166	780.978	757.166	780.325	766.951	726.830	766.951
42.5	317.871	323.335	345.352	371.121	353.507	371.121	345.352	323.335	317.871	323.335
45.0	154.450	170.189	189.597	185.031	182.176	185.031	189.597	170.189	154.450	170.189
47.5	91.414	110.496	145.480	117.265	110.823	117.265	145.480	110.496	91.414	110.496
50.0	45.585	83.667	102.586	78.856	61.894	78.856	102.586	83.667	45.585	83.667
52.5	25.932	48.194	70.457	48.847	37.430	48.847	70.457	48.194	25.932	48.194
55.0	17.777	32.537	50.804	28.623	22.996	28.623	50.804	32.537	17.777	32.537
57.5	7.176	26.421	40.692	17.859	9.541	17.859	40.692	26.421	7.176	26.421
60.0	0.000	22.099	33.434	14.026	4.567	14.026	33.434	22.099	0.000	22.099
62.5	0.000	16.391	33.190	16.880	2.528	16.880	33.190	16.391	0.000	16.391
65.0	0.000	14.026	35.391	23.078	8.481	23.078	35.391	14.026	0.000	14.026
67.5	0.000	10.683	40.366	28.949	11.090	28.949	40.366	10.683	0.000	10.683
70.0	0.000	10.927	43.872	28.215	14.108	28.215	43.872	10.927	0.000	10.927
72.5	0.000	10.927	48.602	30.499	12.314	30.499	48.602	10.927	0.000	10.927
75.0	0.000	11.987	47.624	30.743	10.601	30.743	47.624	11.987	0.000	11.987
77.5	0.000	11.661	48.276	32.619	5.545	32.619	48.276	11.661	0.000	11.661
80.0	0.000	11.172	48.031	29.031	3.343	29.031	48.031	11.172	0.000	11.172
82.5	0.000	3.914	47.542	29.031	0.000	29.031	47.542	3.914	0.000	3.914
85.0	0.000	0.000	42.323	26.258	0.000	26.258	42.323	0.000	0.000	0.000
87.5	0.000	0.000	38.164	24.383	0.000	24.383	38.164	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	9031.923	9031.923	9031.923	9031.923	9031.923	9031.923	9031.923
2.5	9358.683	9364.636	9348.815	9364.636	9358.683	9352.893	9340.171
5.0	9809.643	9803.196	9801.566	9803.196	9809.643	9812.652	9825.457
7.5	9865.658	9859.949	9877.482	9859.949	9865.658	9892.898	9915.897
10.0	9714.795	9671.172	9667.013	9671.172	9714.795	9720.834	9729.154
12.5	9299.561	9282.191	9287.818	9282.191	9299.561	9288.307	9255.689
15.0	8675.317	8651.261	8657.214	8651.261	8675.317	8649.956	8611.547
17.5	7868.408	7873.871	7893.280	7873.871	7868.408	7863.596	7831.059
20.0	7082.537	7083.679	7080.906	7083.679	7082.537	7051.142	7050.897
22.5	6264.700	6246.271	6266.902	6246.271	6264.700	6215.038	6218.871
25.0	5364.419	5350.230	5364.827	5350.230	5364.419	5331.800	5328.783
27.5	4452.640	4432.906	4451.662	4432.906	4452.640	4411.785	4413.497
30.0	3539.230	3523.084	3551.951	3523.084	3539.230	3500.413	3515.092

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CANDELA TABULATION - (Cont.)

32.5	2720.251	2729.874	2745.450	2729.874	2720.251	2713.483	2739.660
35.0	2005.164	2002.228	2023.838	2002.228	2005.164	2006.877	2006.061
37.5	1339.005	1314.785	1360.615	1314.785	1339.005	1347.160	1309.077
40.0	780.325	757.166	780.978	757.166	780.325	766.951	726.830
42.5	345.352	371.121	353.507	371.121	345.352	323.335	317.871
45.0	189.597	185.031	182.176	185.031	189.597	170.189	154.450
47.5	145.480	117.265	110.823	117.265	145.480	110.496	91.414
50.0	102.586	78.856	61.894	78.856	102.586	83.667	45.585
52.5	70.457	48.847	37.430	48.847	70.457	48.194	25.932
55.0	50.804	28.623	22.996	28.623	50.804	32.537	17.777
57.5	40.692	17.859	9.541	17.859	40.692	26.421	7.176
60.0	33.434	14.026	4.567	14.026	33.434	22.099	0.000
62.5	33.190	16.880	2.528	16.880	33.190	16.391	0.000
65.0	35.391	23.078	8.481	23.078	35.391	14.026	0.000
67.5	40.366	28.949	11.090	28.949	40.366	10.683	0.000
70.0	43.872	28.215	14.108	28.215	43.872	10.927	0.000
72.5	48.602	30.499	12.314	30.499	48.602	10.927	0.000
75.0	47.624	30.743	10.601	30.743	47.624	11.987	0.000
77.5	48.276	32.619	5.545	32.619	48.276	11.661	0.000
80.0	48.031	29.031	3.343	29.031	48.031	11.172	0.000
82.5	47.542	29.031	0.000	29.031	47.542	3.914	0.000
85.0	42.323	26.258	0.000	26.258	42.323	0.000	0.000
87.5	38.164	24.383	0.000	24.383	38.164	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	3312.72	N.A.	45.50
0-30	5731.43	N.A.	78.70
0-40	6987.22	N.A.	95.90
0-60	7220.99	N.A.	99.20
0-80	7265.25	N.A.	99.80
0-90	7282.73	N.A.	100.00
10-90	6353.89	N.A.	87.20
20-40	3674.49	N.A.	50.50
20-50	3873.99	N.A.	53.20
40-70	253.10	N.A.	3.50
60-80	44.27	N.A.	0.60
70-80	24.94	N.A.	0.30
80-90	17.48	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	7282.73	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	928.84
10-20	2383.88
20-30	2418.7
30-40	1255.79
40-50	199.50
50-60	34.27
60-70	19.33
70-80	24.94
80-90	17.48
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

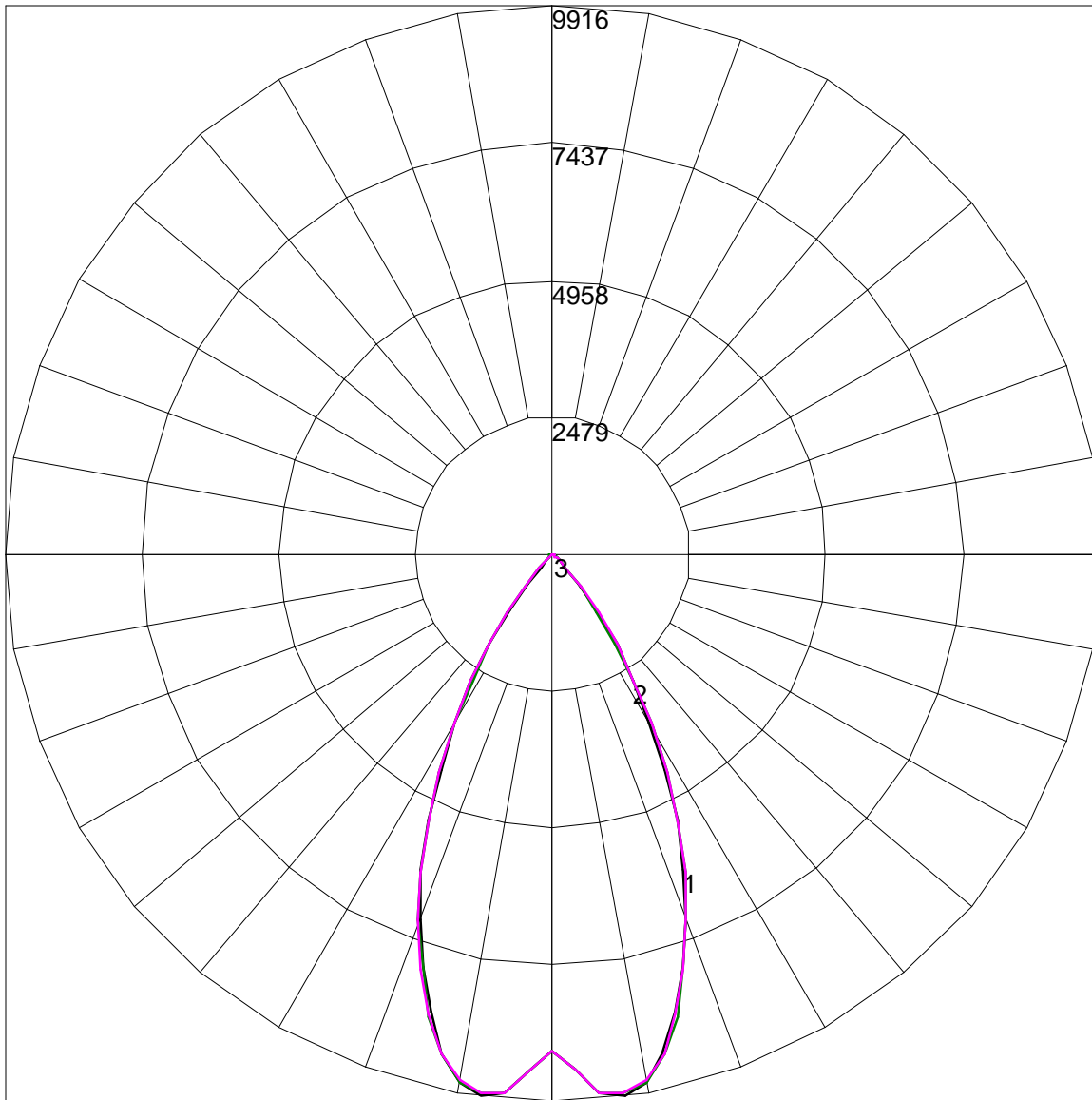
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 9915.897 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)