

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00618\_5 ~ C0611SQXT-13LXXK-NDEX-TCY-GLMW.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00618\_5\_M-13L

[TESTLAB] VLS-245-981

[MANUFAC] Spectrum Lighting

[ISSUE DATE] 6/29/2017

[UPDATE] 3/26/2018

[LUMCAT] C0611SQXT-13L-xxK-ND-EX-TCY-GL-xx-MW

[LUMINAIRE] Nom. 6" Square, LED Cylinder Downlight

[OTHER] Upper, Internal Reflector, Narrow Beam

[OTHER] Lower Trim, Same Color as Cylinder - Matte White

[OTHER] Clear Glass Lens, Flush with Lower Trim

[OTHER] 21 Degree Beam Angle

[LAMPCAT] N/A

[LAMP] N/A, 19mm LES

[OTHER] Total Luminaire Watts is approximate

[OTHER] LEDXT lumen output is the same for all available CCT's

[OTHER] This report prepared by Spectrum Lighting, scaled from 30L

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1324
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	102
Total Luminaire Watts	13
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.36
Spacing Criterion (90-270)	0.36
Spacing Criterion (Diagonal)	0.40
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.32 ft
Luminous Width (90-270)	0.32 ft
Luminous Height	0.00 ft

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00618\_5 ~ C0611SQXT-13LXXK-NDEX-TCY-GLMW.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3179	3581	3178
55	3668	3532	3705
65	3276	3830	3744
75	3392	3354	4095
85	2126	2591	3665

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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>
<b>0</b>	5754.007	5754.007	5754.007	5754.007	5754.007	5754.007	5754.007	5754.007	5754.007	5754.007
<b>5</b>	4817.200	4793.689	4789.954	4817.213	4882.125	4857.960	4906.351	4829.861	4835.975	4785.179
<b>10</b>	3000.873	2980.271	2980.983	2968.130	3024.121	3026.269	2991.860	3008.435	2991.230	2989.736
<b>15</b>	1610.608	1606.167	1620.965	1622.312	1618.838	1631.438	1599.237	1623.127	1603.004	1619.640
<b>20</b>	927.359	929.146	950.498	943.077	924.091	937.422	940.381	935.307	915.299	934.489
<b>25</b>	550.849	608.128	646.637	591.627	532.637	579.515	642.724	599.519	525.260	580.037
<b>30</b>	215.385	338.102	463.618	250.856	196.372	276.441	467.889	306.169	189.055	256.568
<b>35</b>	42.972	84.725	249.289	62.289	31.094	59.655	256.245	79.009	28.918	61.951
<b>40</b>	23.709	26.083	58.030	24.985	22.632	24.286	51.487	24.530	20.924	25.130
<b>45</b>	20.967	21.772	23.615	21.146	20.957	20.822	23.669	21.149	19.262	21.805
<b>50</b>	20.743	20.374	19.338	18.772	20.500	20.408	21.334	19.674	19.417	19.849
<b>55</b>	19.624	18.780	18.893	18.103	19.820	20.074	19.631	19.034	18.666	18.433
<b>60</b>	15.659	16.120	17.401	17.283	17.442	19.151	18.277	17.967	16.084	17.809
<b>65</b>	12.911	14.797	15.097	16.541	14.759	17.829	17.449	16.974	15.128	16.705
<b>70</b>	11.920	12.289	12.863	12.687	11.973	17.370	15.640	16.675	15.184	17.265
<b>75</b>	8.189	9.099	8.096	10.198	9.885	14.932	13.766	13.377	13.430	13.592
<b>80</b>	4.467	4.564	5.544	5.388	6.044	11.830	10.021	10.674	10.058	10.296
<b>85</b>	1.728	1.563	2.106	2.501	2.979	7.668	7.815	7.514	7.085	8.274
<b>90</b>	0.244	0.000	1.032	0.685	0.734	6.281	5.561	5.646	4.261	6.068
<b>95</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>100</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>105</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>110</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>115</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>120</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>125</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>130</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>135</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>140</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>145</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>150</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>155</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>160</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>165</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>170</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>175</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>180</b>	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>
<b>0</b>	5754.007	5754.007	5754.007	5754.007	5754.007	5754.007	5754.007
<b>5</b>	4770.343	4900.896	4838.137	4839.536	4858.770	4844.822	4817.200
<b>10</b>	2992.622	2969.103	3034.599	3031.727	2994.423	3008.297	3000.873
<b>15</b>	1633.781	1572.840	1638.160	1633.216	1618.605	1608.316	1610.608
<b>20</b>	950.111	911.546	925.017	932.487	943.245	930.371	927.359
<b>25</b>	648.322	610.180	532.088	603.885	647.693	600.337	550.849
<b>30</b>	475.870	343.912	193.585	310.248	490.236	310.014	215.385
<b>35</b>	255.025	67.616	40.488	84.204	285.753	78.684	42.972
<b>40</b>	76.907	27.066	24.067	27.870	92.680	28.904	23.709
<b>45</b>	25.303	21.961	20.788	23.658	28.079	25.363	20.967

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<b>50</b>	21.881	21.399	19.973	20.568	21.845	22.342	20.743
<b>55</b>	21.943	19.174	19.864	18.368	20.951	18.855	19.624
<b>60</b>	20.531	19.841	17.557	17.327	18.291	16.357	15.659
<b>65</b>	18.848	18.391	16.502	16.529	14.331	14.277	12.911
<b>70</b>	14.497	16.205	13.186	12.547	12.261	13.428	11.920
<b>75</b>	12.133	13.270	11.592	7.024	8.499	9.364	8.189
<b>80</b>	9.449	9.860	9.543	3.573	3.508	3.686	4.467
<b>85</b>	7.805	7.290	7.045	1.967	1.383	1.765	1.728
<b>90</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.244
<b>95</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>100</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>105</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>110</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>115</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>120</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>125</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>130</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>135</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>140</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>145</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>150</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>155</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>160</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>165</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>170</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>175</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>180</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	890.79	N.A.	67.30
0-30	1166.28	N.A.	88.10
0-40	1253.82	N.A.	94.70
0-60	1290.64	N.A.	97.50
0-80	1318.00	N.A.	99.60
0-90	1323.14	N.A.	100.00
10-90	916.26	N.A.	69.20
20-40	363.03	N.A.	27.40
20-50	382.60	N.A.	28.90
40-70	52.67	N.A.	4.00
60-80	27.36	N.A.	2.10
70-80	11.51	N.A.	0.90
80-90	5.14	N.A.	0.40
90-110	0.52	N.A.	0.00
90-120	0.52	N.A.	0.00
90-130	0.52	N.A.	0.00
90-150	0.52	N.A.	0.00
90-180	0.52	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	1323.66	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	406.88
10-20	483.91
20-30	275.49
30-40	87.54
40-50	19.57
50-60	17.25
60-70	15.85
70-80	11.51
80-90	5.14
90-100	0.52
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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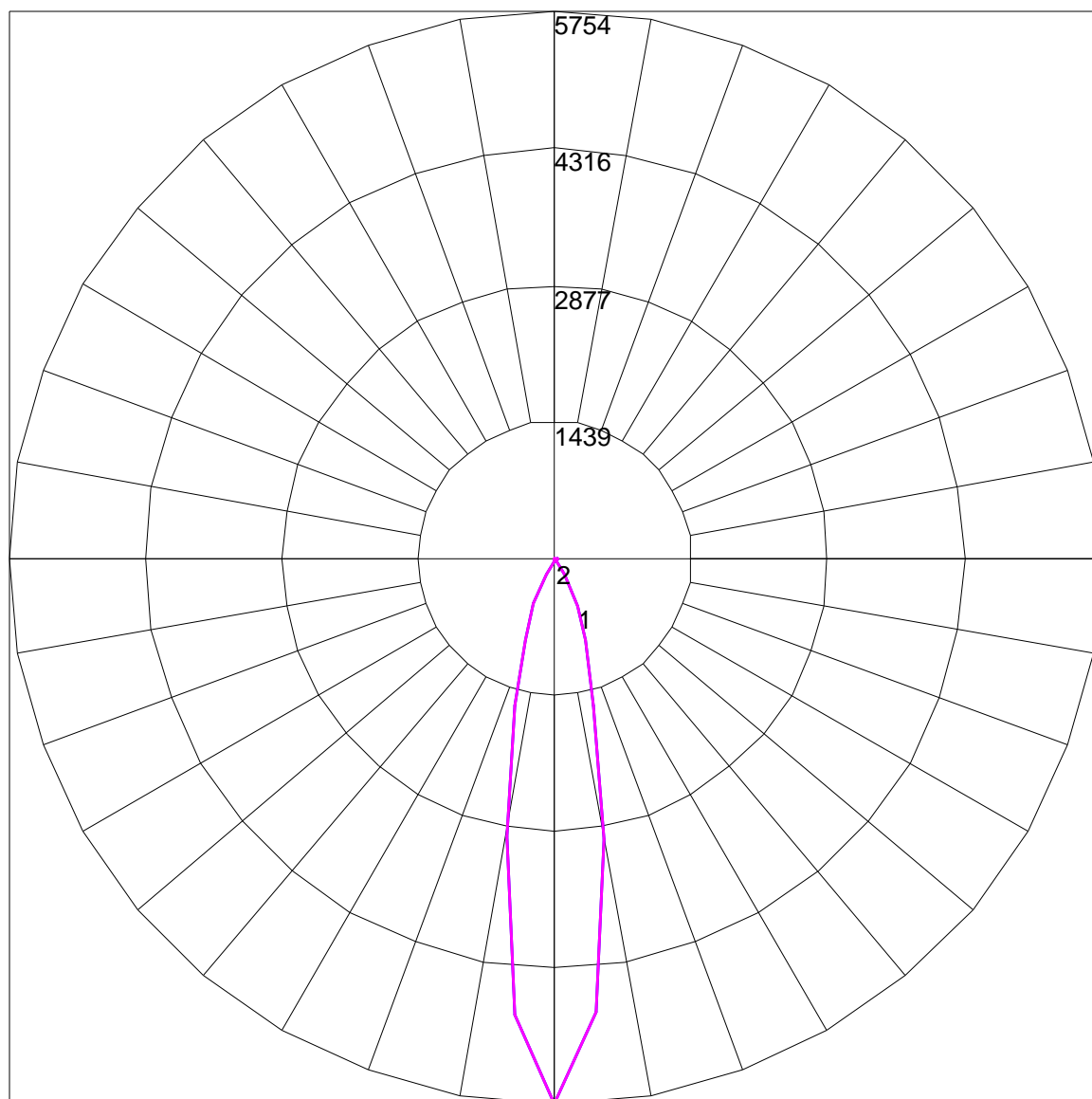
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	112	110	108	112	110	108	106	106	104	103	102	101	100	98	98	97	95
2	110	106	102	99	108	104	101	98	101	98	96	98	96	94	95	93	92	90
3	106	100	96	93	104	99	95	92	96	93	91	94	91	89	92	90	88	86
4	102	96	91	88	100	94	90	87	92	89	86	91	88	85	89	86	84	83
5	98	91	87	83	97	91	86	83	89	85	82	87	84	82	86	83	81	80
6	95	88	83	80	94	87	83	79	86	82	79	84	81	78	83	80	78	77
7	92	84	80	76	91	84	79	76	83	79	76	82	78	75	81	77	75	74
8	89	81	77	73	88	81	76	73	80	76	73	79	75	73	78	75	72	71
9	86	79	74	71	85	78	74	71	77	73	71	77	73	70	76	73	70	69
10	84	76	72	69	83	76	71	68	75	71	68	74	71	68	74	70	68	67

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POLAR GRAPH



Maximum Candela = 5754.007 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Vertical Plane Through Horizontal Angles (0 - 180)