

**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : SP-00618\_17 ~ C0611SQXT-13LXXK-XWEX-TCY-GLMW.IES**
**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] SP-00618\_17\_M-13L  
 [TESTLAB] VLS-245-981  
 [MANUFAC] Spectrum Lighting  
 [ISSUEDATE] 6/29/2017  
 [UPDATE] 3/26/2018  
 [LUMCAT] C0611SQXT-13L-xxK-XW-EX-TCY-GL-xx-MW  
 [LUMINAIRE] Nom. 6" Square, LED Cylinder Downlight  
 [OTHER] Upper, Internal Reflector, Xtra Wide Beam  
 [OTHER] Lower Trim, Same Color as Cylinder - Matte White  
 [OTHER] Clear Glass Lens, Flush with Lower Trim  
 [OTHER] 52.7 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	1178
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	91
Total Luminaire Watts	13
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.86
Spacing Criterion (90-270)	0.86
Spacing Criterion (Diagonal)	0.90
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\_17 ~ C0611SQXT-13LXXK-XWEX-TCY-GLMW.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	11043	11607	11034
55	5092	5784	4854
65	4212	4354	4152
75	4146	4846	5252
85	2950	4365	5589

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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	1435.391	1435.391	1435.391	1435.391	1435.391	1435.391	1435.391	1435.391	1435.391	1435.391
5	1407.943	1401.297	1410.201	1417.571	1413.302	1412.412	1412.678	1411.900	1413.305	1415.377
10	1346.325	1329.406	1346.317	1358.754	1353.029	1353.710	1349.667	1349.403	1348.505	1358.804
15	1230.181	1209.751	1242.813	1265.425	1246.725	1252.910	1245.571	1243.580	1239.132	1261.282
20	1059.304	1049.755	1095.664	1109.299	1087.386	1097.218	1095.627	1077.325	1077.824	1105.168
25	838.046	860.611	930.354	917.345	815.576	895.616	929.624	906.279	816.786	922.597
30	415.751	519.753	715.027	538.547	420.756	515.354	723.402	555.500	441.142	525.559
35	188.782	222.280	394.090	223.435	206.217	227.398	411.425	218.514	205.725	213.925
40	116.534	112.379	153.288	128.912	121.894	126.720	166.574	124.400	123.065	128.026
45	72.830	70.343	76.552	79.150	72.767	77.222	80.665	77.328	74.505	81.115
50	43.816	42.047	47.408	48.451	41.715	48.154	50.536	47.873	43.868	49.108
55	27.239	27.659	30.940	29.961	25.969	30.292	32.286	29.921	25.781	30.363
60	19.065	19.851	21.899	20.474	18.212	22.252	22.423	21.803	18.525	21.465
65	16.602	18.024	17.163	17.521	16.364	20.170	20.877	19.856	17.982	18.146
70	14.407	15.207	14.911	15.831	15.266	18.909	18.485	18.437	18.560	17.449
75	10.009	11.747	11.697	13.218	12.678	18.371	16.066	16.234	14.297	15.119
80	5.670	6.307	7.494	9.062	9.095	15.357	13.222	12.134	11.609	10.754
85	2.398	2.767	3.548	4.551	4.543	11.884	10.350	9.576	8.130	8.019
90	0.000	0.000	1.269	1.628	1.841	8.592	7.277	6.687	5.787	5.569
95	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

## Vert. 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	1435.391	1435.391	1435.391	1435.391	1435.391	1435.391	1435.391
5	1410.386	1409.879	1417.515	1414.869	1418.569	1414.116	1407.943
10	1348.411	1337.580	1349.627	1348.346	1364.437	1354.869	1346.325
15	1238.155	1211.436	1224.266	1223.924	1253.505	1244.428	1230.181
20	1077.501	1051.521	1059.838	1062.051	1082.572	1080.562	1059.304
25	910.889	852.921	827.171	883.164	915.551	871.116	838.046
30	715.609	509.433	399.097	524.152	723.968	514.329	415.751
35	374.575	220.528	192.583	218.956	432.568	230.158	188.782
40	127.681	116.067	118.570	120.966	161.779	125.997	116.534
45	74.551	72.603	73.513	76.008	81.398	80.257	72.830

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<b>50</b>	48.162	45.078	44.016	46.791	53.183	48.746	43.816
<b>55</b>	32.896	28.385	28.012	28.322	34.881	30.597	27.239
<b>60</b>	23.796	22.518	20.191	19.639	23.588	21.006	19.065
<b>65</b>	19.175	20.242	17.972	17.309	17.946	19.021	16.602
<b>70</b>	16.550	17.531	15.759	13.480	14.047	16.142	14.407
<b>75</b>	12.626	13.852	12.463	8.507	9.239	10.478	10.009
<b>80</b>	9.527	9.648	9.034	4.020	5.396	5.581	5.670
<b>85</b>	6.840	6.132	6.926	1.410	1.662	1.899	2.398
<b>90</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<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	477.57	N.A.	40.50
0-30	863.90	N.A.	73.30
0-40	1048.19	N.A.	89.00
0-60	1139.5	N.A.	96.70
0-80	1171.38	N.A.	99.40
0-90	1177.57	N.A.	99.90
10-90	1044.71	N.A.	88.70
20-40	570.62	N.A.	48.40
20-50	633.61	N.A.	53.80
40-70	109.69	N.A.	9.30
60-80	31.88	N.A.	2.70
70-80	13.50	N.A.	1.10
80-90	6.20	N.A.	0.50
90-110	0.66	N.A.	0.10
90-120	0.66	N.A.	0.10
90-130	0.66	N.A.	0.10
90-150	0.66	N.A.	0.10
90-180	0.66	N.A.	0.10
110-180	0.00	N.A.	0.00
0-180	1178.23	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	132.87
10-20	344.71
20-30	386.32
30-40	184.30
40-50	62.99
50-60	28.32
60-70	18.38
70-80	13.50
80-90	6.20
90-100	0.66
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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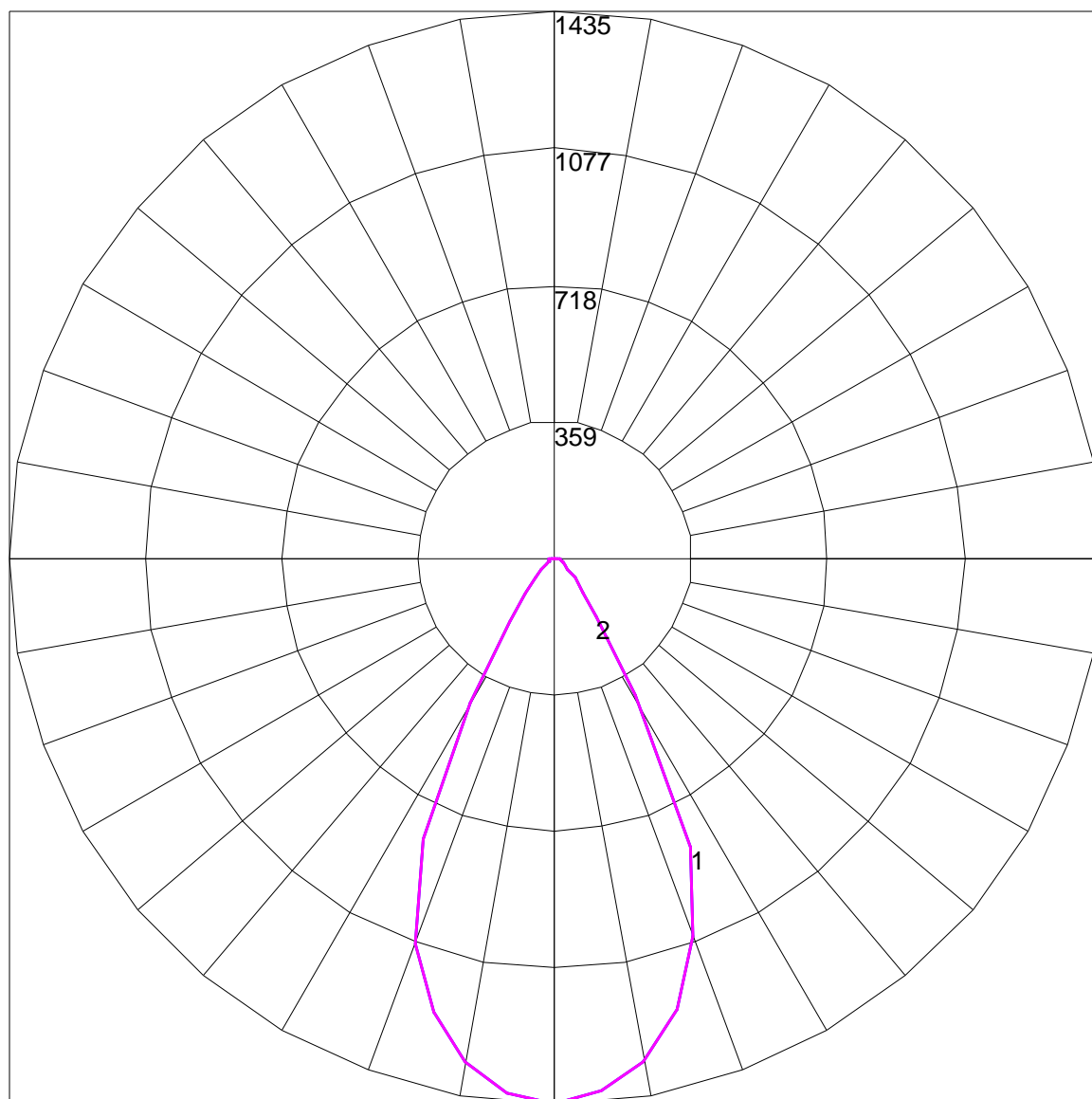
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	113	110	107	105	111	108	106	103	104	102	100	100	99	97	97	95	94	93
2	107	102	98	94	105	100	97	93	97	94	91	94	92	89	91	89	87	86
3	102	95	90	86	100	94	89	85	91	87	84	89	85	82	86	84	81	80
4	97	89	83	79	95	88	82	78	86	81	77	84	80	77	82	78	76	74
5	92	83	77	73	90	82	77	73	81	76	72	79	75	71	77	74	71	69
6	87	78	72	68	86	77	72	68	76	71	67	75	70	67	73	69	66	65
7	83	74	68	63	82	73	67	63	72	67	63	71	66	63	69	65	62	61
8	79	70	64	60	78	69	63	59	68	63	59	67	62	59	66	62	59	57
9	76	66	60	56	74	65	60	56	64	59	56	64	59	56	63	58	55	54
10	72	62	57	53	71	62	57	53	61	56	53	60	56	52	60	55	52	51

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POLAR GRAPH



Maximum Candela = 1435.391 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)