

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00618\_2 ~ C0611SQXT-20LXXK-MDEX-TCY-NLMW.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00618\_2\_M-20L

[TESTLAB] VLS-245-981

[MANUFAC] Spectrum Lighting

[ISSUE DATE] 6/29/2017

[UPDATE] 3/26/2018

[LUMCAT] C0611SQXT-20L-xxK-MD-EX-TCY-NL-xx-MW

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

[OTHER] Upper, Internal Reflector, Medium Beam

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

[OTHER] No Lens

[OTHER] 37.7 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	1887
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	87
Total Luminaire Watts	21.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.62
Spacing Criterion (90-270)	0.62
Spacing Criterion (Diagonal)	0.68
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\_2 ~ C0611SQXT-20LXXK-MDEX-TCY-NLMW.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	8410	8324	7562
55	5669	6523	5252
65	6082	6329	5406
75	6530	7321	7090
85	5540	6230	7136

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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	3860.959	3860.959	3860.959	3860.959	3860.959	3860.959	3860.959	3860.959	3860.959	3860.959
5	3655.640	3671.377	3672.077	3695.031	3684.818	3667.950	3677.747	3672.258	3664.199	3666.714
10	3141.882	3155.810	3163.389	3170.901	3172.740	3161.133	3175.048	3168.058	3163.654	3152.934
15	2458.776	2468.776	2484.563	2473.669	2481.807	2483.186	2498.199	2484.532	2484.290	2472.444
20	1780.678	1806.810	1836.983	1801.163	1784.646	1802.712	1838.453	1804.269	1764.816	1780.792
25	1130.733	1253.443	1316.555	1195.111	1089.734	1192.721	1306.257	1212.133	1036.867	1154.728
30	482.955	728.292	913.024	539.568	430.155	559.444	890.771	583.225	412.221	473.040
35	147.487	209.218	491.895	131.229	118.563	173.415	462.974	182.134	119.813	148.978
40	78.323	82.301	134.841	74.937	71.218	71.636	113.309	69.889	71.139	77.357
45	55.464	57.619	54.899	53.575	49.871	50.859	49.992	47.723	49.424	54.324
50	40.885	44.992	43.022	41.157	37.813	39.340	38.538	36.354	36.166	40.277
55	30.328	34.373	34.894	32.224	28.094	31.112	30.276	30.162	27.533	31.687
60	25.197	28.669	29.241	25.409	22.840	26.193	27.906	25.911	23.403	26.756
65	23.975	25.031	24.947	25.142	21.310	24.652	26.432	25.782	22.815	27.105
70	21.510	22.358	22.729	22.974	21.836	24.690	24.645	24.705	23.607	25.469
75	15.762	16.959	17.673	17.918	17.116	23.873	20.882	23.183	21.471	22.338
80	10.065	10.683	9.416	12.123	10.598	19.612	17.668	18.292	17.588	17.071
85	4.503	5.137	5.064	5.598	5.801	14.062	14.209	14.037	13.905	13.335
90	1.082	1.167	1.967	1.892	1.883	11.518	11.090	10.787	0.000	0.000
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. 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	3860.959	3860.959	3860.959	3860.959	3860.959	3860.959	3860.959
5	3655.915	3706.815	3704.060	3688.692	3685.647	3670.917	3655.640
10	3147.843	3188.926	3193.305	3189.856	3179.737	3167.217	3141.882
15	2472.448	2479.541	2480.409	2493.567	2491.797	2486.856	2458.776
20	1825.560	1808.110	1784.821	1812.378	1826.285	1813.892	1780.678
25	1297.708	1243.502	1123.424	1233.701	1301.216	1225.713	1130.733
30	907.337	686.766	415.418	650.789	929.632	644.915	482.955
35	426.221	165.146	135.533	200.749	519.601	187.926	147.487
40	126.764	77.961	75.042	79.948	160.605	81.331	78.323
45	57.706	54.747	51.348	56.007	61.557	58.141	55.464

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<b>50</b>	42.397	42.487	37.480	41.219	44.342	44.017	40.885
<b>55</b>	34.900	34.177	26.883	31.708	38.105	34.639	30.328
<b>60</b>	30.299	28.458	25.738	27.171	31.588	28.293	25.197
<b>65</b>	28.082	28.742	23.425	24.567	26.727	26.546	23.975
<b>70</b>	24.911	24.987	24.405	20.578	21.197	22.662	21.510
<b>75</b>	21.569	21.350	19.356	14.238	13.116	15.947	15.762
<b>80</b>	16.275	16.285	16.258	8.186	8.688	9.069	10.065
<b>85</b>	12.221	12.136	11.879	3.086	3.520	4.011	4.503
<b>90</b>	0.000	0.000	0.000	0.000	0.000	0.000	1.082
<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	1023.3	N.A.	54.20
0-30	1572.98	N.A.	83.30
0-40	1757.38	N.A.	93.10
0-60	1832.66	N.A.	97.10
0-80	1877.47	N.A.	99.50
0-90	1886.73	N.A.	100.00
10-90	1551.72	N.A.	82.20
20-40	734.08	N.A.	38.90
20-50	779.93	N.A.	41.30
40-70	100.33	N.A.	5.30
60-80	44.81	N.A.	2.40
70-80	19.75	N.A.	1.00
80-90	9.27	N.A.	0.50
90-110	0.71	N.A.	0.00
90-120	0.71	N.A.	0.00
90-130	0.71	N.A.	0.00
90-150	0.71	N.A.	0.00
90-180	0.71	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	1887.44	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	335.01
10-20	688.29
20-30	549.67
30-40	184.41
40-50	45.85
50-60	29.43
60-70	25.06
70-80	19.75
80-90	9.27
90-100	0.71
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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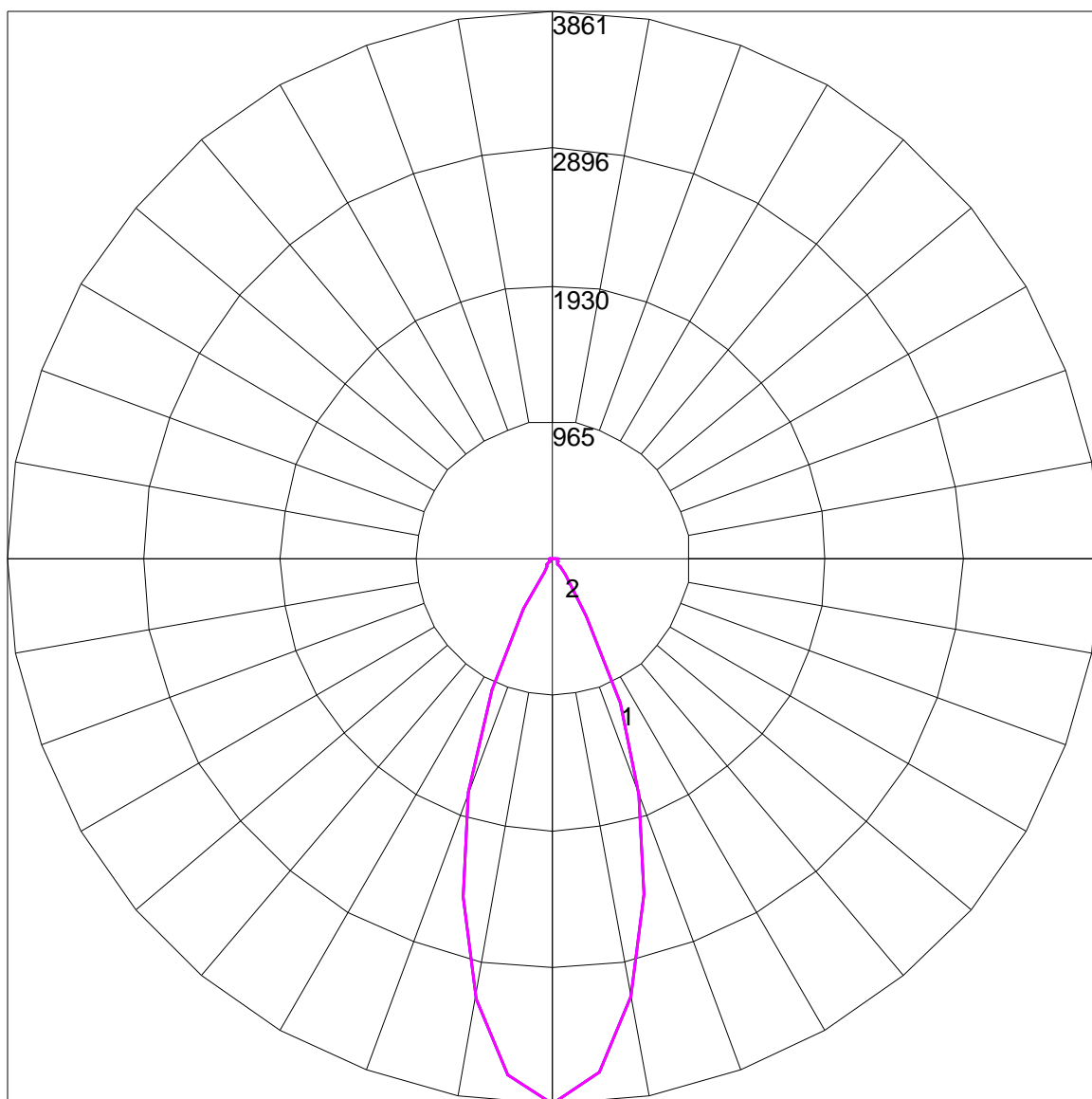
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	101	101	100	98	98	97	96	94
2	109	104	100	97	106	102	99	96	99	96	94	96	94	92	93	91	90	88
3	104	98	93	89	102	96	92	89	94	90	87	91	88	86	89	87	85	83
4	99	92	87	83	97	91	86	83	89	85	82	87	84	81	85	82	80	79
5	95	87	82	78	93	86	82	78	85	80	77	83	79	76	82	78	76	74
6	91	83	78	74	90	82	77	73	81	76	73	79	76	73	78	75	72	71
7	87	79	74	70	86	78	73	70	77	73	69	76	72	69	75	71	69	67
8	84	75	70	66	83	75	70	66	74	69	66	73	69	66	72	68	65	64
9	81	72	67	63	80	72	67	63	71	66	63	70	66	63	69	65	63	61
10	78	69	64	60	77	69	64	60	68	63	60	67	63	60	66	63	60	59

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POLAR GRAPH



Maximum Candela = 3860.959 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)