

**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : SP-00618\_7 ~ C0611SQXT-10LXXK-NDEX-TCY-SOMW.IES**
**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] SP-00618\_7\_M-10L  
 [TESTLAB] VLS-245-981  
 [MANUFAC] Spectrum Lighting  
 [ISSUEDATE] 6/29/2017  
 [UPDATE] 3/26/2018  
 [LUMCAT] C0611SQXT-10L-xxK-ND-EX-TCY-SO-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] Solite Lens, Flush with Lower Trim  
 [OTHER] 22.4 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	999
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	110
Total Luminaire Watts	9.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.38
Spacing Criterion (90-270)	0.38
Spacing Criterion (Diagonal)	0.42
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\_7 ~ C0611SQXT-10LXXK-NDEX-TCY-SOMW.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2953	3202	2668
55	2882	2963	2726
65	3203	3189	2852
75	3096	3113	3451
85	2171	2645	2332

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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>	3947.135	3947.135	3947.135	3947.135	3947.135	3947.135	3947.135	3947.135	3947.135	3947.135
<b>5</b>	3358.974	3348.924	3395.925	3395.556	3454.968	3392.587	3376.694	3365.759	3357.806	3338.144
<b>10</b>	2194.930	2192.590	2166.486	2197.419	2228.382	2241.228	2234.252	2217.583	2208.023	2190.565
<b>15</b>	1238.439	1242.547	1207.744	1235.571	1242.714	1278.431	1281.635	1258.985	1256.478	1243.809
<b>20</b>	725.801	733.415	721.945	721.405	716.851	738.323	753.052	729.940	721.774	726.414
<b>25</b>	433.800	477.028	492.564	432.570	409.712	432.338	497.890	446.778	389.793	430.788
<b>30</b>	188.031	261.079	338.754	198.070	132.459	194.775	329.727	213.195	131.377	183.726
<b>35</b>	45.854	88.295	172.541	53.175	29.303	54.199	159.399	61.892	33.684	49.825
<b>40</b>	22.059	27.075	48.955	22.526	19.705	21.332	49.173	21.393	18.620	22.398
<b>45</b>	19.478	19.453	21.117	17.874	17.593	17.332	19.832	17.679	15.527	19.672
<b>50</b>	17.429	17.426	17.483	16.077	15.450	15.610	15.874	16.221	14.419	17.761
<b>55</b>	15.419	15.348	15.849	14.767	14.582	14.288	14.991	14.365	13.227	15.630
<b>60</b>	14.069	13.755	14.860	13.027	11.493	13.447	13.700	12.891	11.369	14.516
<b>65</b>	12.625	12.444	12.569	11.683	11.242	12.234	12.675	12.950	12.781	14.155
<b>70</b>	10.487	12.109	9.487	10.949	10.144	11.436	12.009	12.284	11.054	12.363
<b>75</b>	7.473	7.652	7.515	7.691	8.331	11.180	9.500	10.853	9.613	9.809
<b>80</b>	3.457	4.177	4.124	4.419	4.265	8.314	7.976	7.498	7.924	7.770
<b>85</b>	1.765	1.776	2.150	2.544	1.896	6.495	5.900	6.302	5.588	5.271
<b>90</b>	0.691	0.562	0.852	0.682	0.693	5.221	1.105	4.356	0.000	0.000
<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. 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>	3947.135	3947.135	3947.135	3947.135	3947.135	3947.135	3947.135
<b>5</b>	3388.056	3395.253	3428.095	3385.203	3377.922	3365.492	3358.974
<b>10</b>	2182.057	2222.587	2218.139	2252.269	2242.755	2221.911	2194.930
<b>15</b>	1227.260	1265.924	1252.668	1302.446	1298.349	1275.377	1238.439
<b>20</b>	725.620	748.665	731.207	768.345	772.149	753.834	725.801
<b>25</b>	495.672	492.758	439.207	496.842	520.058	483.585	433.800
<b>30</b>	357.015	270.565	174.716	267.511	373.629	250.617	188.031
<b>35</b>	180.602	83.449	39.438	90.208	221.170	80.054	45.854
<b>40</b>	46.696	29.011	22.199	30.689	83.229	27.686	22.059
<b>45</b>	22.080	20.253	19.191	21.656	30.423	21.980	19.478

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<b>50</b>	19.298	18.898	17.099	18.371	21.780	19.500	17.429
<b>55</b>	16.360	17.899	15.747	17.165	19.216	16.621	15.419
<b>60</b>	15.905	15.427	14.031	16.351	16.293	14.740	14.069
<b>65</b>	13.191	14.859	13.448	13.639	12.760	14.862	12.625
<b>70</b>	11.225	12.638	11.583	10.988	9.960	11.946	10.487
<b>75</b>	9.781	9.261	9.622	6.697	6.128	7.256	7.473
<b>80</b>	7.422	6.571	6.484	2.958	3.403	3.616	3.457
<b>85</b>	6.052	5.783	4.866	1.572	1.257	1.621	1.765
<b>90</b>	0.000	0.000	0.000	0.000	0.411	0.069	0.691
<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	657.95	N.A.	65.90
0-30	872.42	N.A.	87.30
0-40	941.67	N.A.	94.30
0-60	973.00	N.A.	97.40
0-80	994.78	N.A.	99.60
0-90	998.64	N.A.	100.00
10-90	710.83	N.A.	71.20
20-40	283.72	N.A.	28.40
20-50	300.95	N.A.	30.10
40-70	44.07	N.A.	4.40
60-80	21.78	N.A.	2.20
70-80	9.04	N.A.	0.90
80-90	3.86	N.A.	0.40
90-110	0.25	N.A.	0.00
90-120	0.25	N.A.	0.00
90-130	0.25	N.A.	0.00
90-150	0.25	N.A.	0.00
90-180	0.25	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	998.89	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	287.82
10-20	370.13
20-30	214.47
30-40	69.25
40-50	17.23
50-60	14.10
60-70	12.75
70-80	9.04
80-90	3.86
90-100	0.25
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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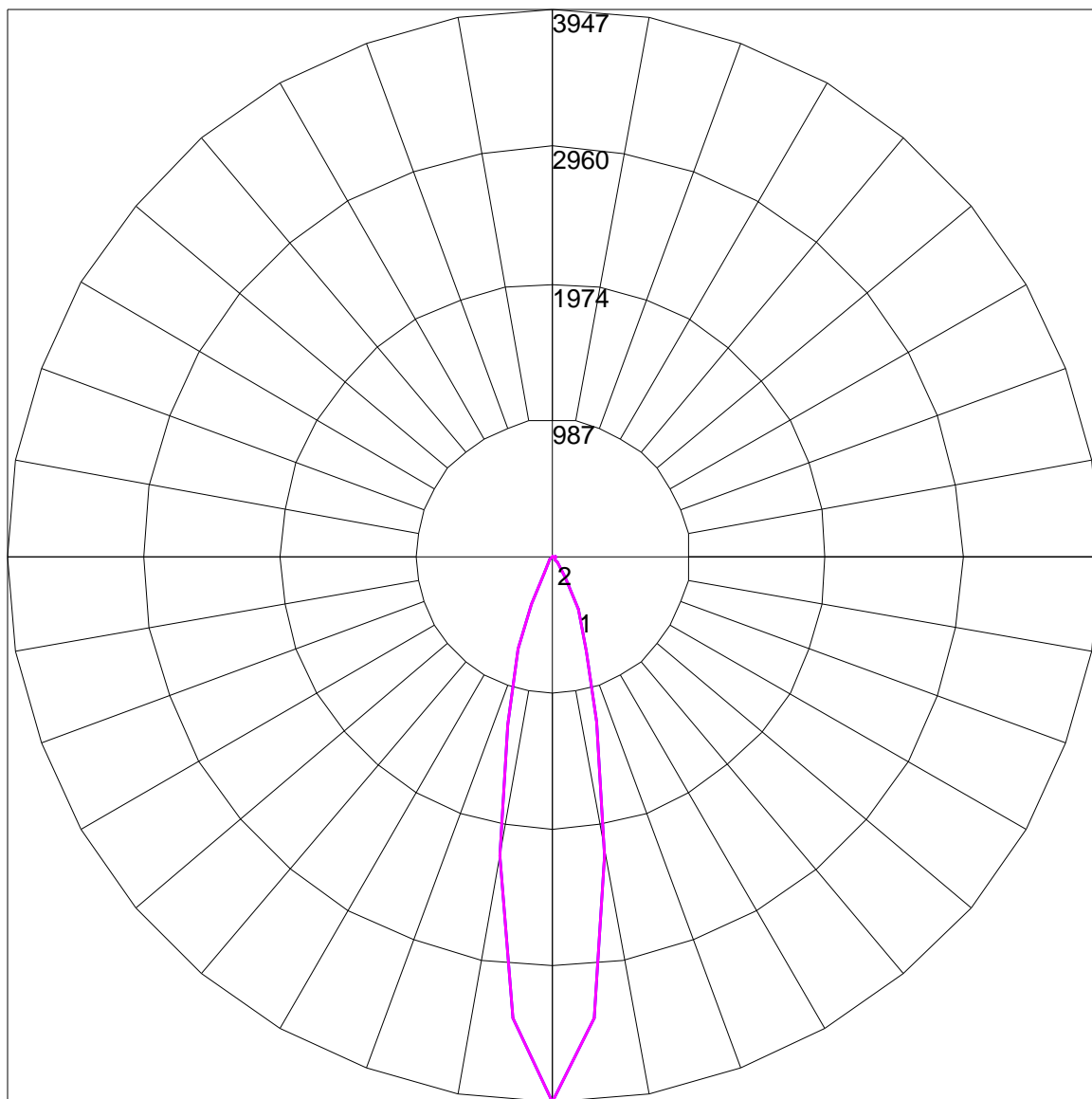
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	109	107	112	109	107	106	105	104	102	102	101	99	98	97	97	95
2	110	105	102	99	107	104	100	98	100	98	96	98	95	94	95	93	92	90
3	105	100	96	92	103	99	95	92	96	93	90	94	91	89	91	89	87	86
4	101	95	90	87	100	94	90	86	92	88	85	90	87	84	88	86	84	82
5	98	91	86	83	96	90	86	82	88	84	81	87	83	81	85	82	80	79
6	94	87	82	79	93	86	82	78	85	81	78	84	80	77	82	79	77	76
7	91	84	79	75	90	83	78	75	82	78	75	81	77	74	80	77	74	73
8	88	81	76	72	87	80	75	72	79	75	72	78	74	72	77	74	71	70
9	85	78	73	70	84	77	73	70	76	72	69	76	72	69	75	72	69	68
10	83	75	70	67	82	75	70	67	74	70	67	73	70	67	73	69	67	66

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POLAR GRAPH



Maximum Candela = 3947.135 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)