

**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : SP-00618\_7 ~ C0611SQXT-13LXXK-NDEX-TCY-SOMW.IES**
**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] SP-00618\_7\_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-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	1346
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	104
Total Luminaire Watts	13
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-13LXXK-NDEX-TCY-SOMW.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3979	4314	3594
55	3883	3991	3672
65	4315	4296	3843
75	4171	4195	4650
85	2925	3564	3142

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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>	5318.077	5318.077	5318.077	5318.077	5318.077	5318.077	5318.077	5318.077	5318.077	5318.077
<b>5</b>	4525.632	4512.091	4575.418	4574.920	4654.968	4570.921	4549.507	4534.775	4524.059	4497.567
<b>10</b>	2957.286	2954.133	2918.963	2960.640	3002.356	3019.665	3010.265	2987.808	2974.926	2951.406
<b>15</b>	1668.581	1674.115	1627.225	1664.717	1674.340	1722.463	1726.780	1696.263	1692.886	1675.815
<b>20</b>	977.891	988.149	972.695	971.968	965.832	994.761	1014.606	983.467	972.465	978.716
<b>25</b>	584.470	642.712	663.644	582.813	552.016	582.501	670.821	601.956	525.178	580.412
<b>30</b>	253.339	351.759	456.412	266.865	178.465	262.426	444.249	287.243	177.008	247.539
<b>35</b>	61.780	118.963	232.468	71.644	39.480	73.023	214.763	83.388	45.383	67.131
<b>40</b>	29.721	36.478	65.958	30.349	26.549	28.742	66.252	28.823	25.087	30.177
<b>45</b>	26.244	26.210	28.451	24.082	23.703	23.352	26.720	23.820	20.921	26.505
<b>50</b>	23.483	23.478	23.556	21.661	20.816	21.032	21.387	21.854	19.427	23.930
<b>55</b>	20.775	20.679	21.353	19.896	19.646	19.251	20.197	19.354	17.821	21.059
<b>60</b>	18.956	18.533	20.021	17.551	15.485	18.118	18.458	17.369	15.317	19.557
<b>65</b>	17.010	16.766	16.935	15.741	15.147	16.483	17.077	17.448	17.221	19.071
<b>70</b>	14.129	16.314	12.782	14.752	13.667	15.408	16.180	16.551	14.894	16.657
<b>75</b>	10.069	10.310	10.126	10.362	11.225	15.063	12.799	14.623	12.951	13.216
<b>80</b>	4.658	5.628	5.556	5.954	5.746	11.202	10.747	10.103	10.676	10.469
<b>85</b>	2.378	2.393	2.897	3.427	2.554	8.751	7.950	8.491	7.529	7.102
<b>90</b>	0.932	0.757	1.147	0.919	0.934	7.034	1.488	5.869	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. 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>	5318.077	5318.077	5318.077	5318.077	5318.077	5318.077	5318.077
<b>5</b>	4564.815	4574.513	4618.761	4560.972	4551.162	4534.415	4525.632
<b>10</b>	2939.941	2994.549	2988.557	3034.540	3021.721	2993.638	2957.286
<b>15</b>	1653.519	1705.612	1687.752	1754.819	1749.299	1718.348	1668.581
<b>20</b>	977.647	1008.696	985.174	1035.211	1040.337	1015.660	977.891
<b>25</b>	667.832	663.906	591.754	669.408	700.688	651.547	584.470
<b>30</b>	481.015	364.539	235.399	360.425	503.401	337.663	253.339
<b>35</b>	243.329	112.433	53.136	121.540	297.989	107.859	61.780
<b>40</b>	62.915	39.087	29.909	41.348	112.136	37.302	29.721
<b>45</b>	29.749	27.288	25.856	29.178	40.990	29.615	26.244

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50	26.001	25.462	23.039	24.752	29.344	26.272	23.483
55	22.043	24.115	21.217	23.127	25.891	22.394	20.775
60	21.429	20.786	18.904	22.030	21.952	19.859	18.956
65	17.773	20.020	18.119	18.377	17.192	20.025	17.010
70	15.124	17.027	15.606	14.805	13.419	16.096	14.129
75	13.179	12.478	12.964	9.023	8.256	9.776	10.069
80	10.000	8.854	8.736	3.985	4.585	4.872	4.658
85	8.154	7.792	6.556	2.118	1.694	2.184	2.378
90	0.000	0.000	0.000	0.000	0.554	0.094	0.932
95	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
105	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
115	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
125	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
135	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
145	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
155	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
165	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
175	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

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Zone	Lumens	%Lamp	%Fixt
0-20	886.47	N.A.	65.90
0-30	1175.44	N.A.	87.30
0-40	1268.74	N.A.	94.30
0-60	1310.95	N.A.	97.40
0-80	1340.3	N.A.	99.60
0-90	1345.5	N.A.	100.00
10-90	957.71	N.A.	71.20
20-40	382.27	N.A.	28.40
20-50	405.47	N.A.	30.10
40-70	59.38	N.A.	4.40
60-80	29.35	N.A.	2.20
70-80	12.18	N.A.	0.90
80-90	5.20	N.A.	0.40
90-110	0.34	N.A.	0.00
90-120	0.34	N.A.	0.00
90-130	0.34	N.A.	0.00
90-150	0.34	N.A.	0.00
90-180	0.34	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	1345.83	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	387.78
10-20	498.69
20-30	288.96
30-40	93.30
40-50	23.21
50-60	19.00
60-70	17.17
70-80	12.18
80-90	5.20
90-100	0.34
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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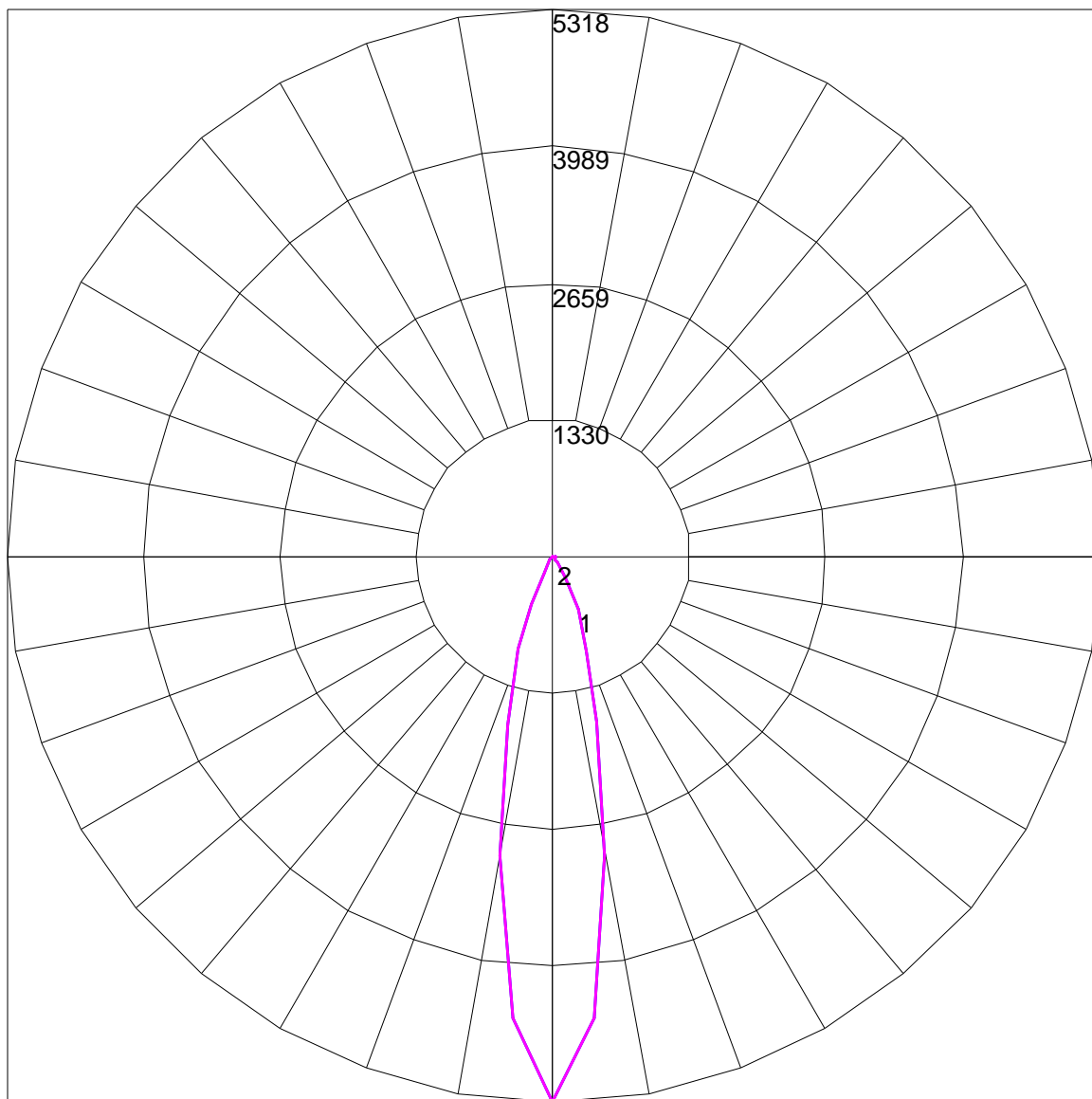
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 5318.077 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)