

**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : SP-00618\_6 ~ C0611SQXT-10LXXK-NDEX-TCY-NLMW.IES**
**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] SP-00618\_6\_M-10L  
 [TESTLAB] VLS-245-981  
 [MANUFAC] Spectrum Lighting  
 [ISSUEDATE] 6/29/2017  
 [UPDATE] 3/26/2018  
 [LUMCAT] C0611SQXT-10L-xxK-ND-EX-TCY-NL-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] No Lens, Flush with Lower Trim  
 [OTHER] 21.1 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	1079
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	119
Total Luminaire Watts	9.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.36
Spacing Criterion (90-270)	0.30
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\_6 ~ C0611SQXT-10LXXK-NDEX-TCY-NLMW.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2232	2416	2162
55	2396	2527	2435
65	2749	2822	2735
75	2836	2234	2692
85	1677	1844	1694

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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	4729.144	4729.144	4729.144	4729.144	4729.144	4729.144	4729.144	4729.144	4729.144	4729.144
5	3938.240	3906.784	3527.695	3445.860	3378.848	3832.015	3953.467	3940.561	4064.603	4056.875
10	2408.675	2382.663	2009.475	1945.519	1867.520	2280.215	2421.443	2414.901	2556.650	2544.176
15	1279.761	1268.381	1072.537	1039.580	985.413	1200.071	1289.462	1279.477	1367.385	1357.767
20	738.646	734.992	660.212	627.739	583.125	692.579	743.691	723.616	759.288	767.001
25	434.198	490.129	475.489	361.892	289.150	423.411	510.873	454.060	411.491	457.172
30	157.718	250.939	325.436	122.013	69.040	167.907	366.637	197.326	131.247	185.099
35	27.061	66.628	135.964	25.003	17.713	33.296	165.628	43.755	22.558	36.541
40	16.742	17.358	27.986	17.207	16.271	16.038	38.550	16.605	15.012	17.030
45	14.722	14.711	15.936	14.654	14.259	14.412	14.906	15.212	13.134	15.323
50	13.083	13.747	14.413	13.458	12.704	13.968	14.518	13.939	12.529	13.923
55	12.818	13.239	13.518	12.807	13.027	13.471	13.462	13.275	11.428	13.297
60	11.153	12.571	12.028	12.803	11.944	12.656	13.370	13.730	11.941	12.470
65	10.836	11.519	11.123	11.966	10.780	13.826	13.574	12.971	12.741	13.365
70	10.431	11.125	9.623	9.152	8.649	13.519	11.437	11.692	11.587	11.991
75	6.845	8.221	5.392	6.938	6.498	11.329	9.874	9.682	9.383	10.161
80	3.581	3.687	2.864	3.208	3.674	8.553	7.872	8.179	7.597	7.781
85	1.363	1.341	1.499	1.202	1.377	6.994	6.264	6.560	6.234	6.502
90	0.455	0.079	0.412	0.269	0.755	5.009	1.920	4.802	2.057	4.697
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	4729.144	4729.144	4729.144	4729.144	4729.144	4729.144	4729.144
5	4360.040	4456.215	4548.122	4211.165	4092.833	4087.452	3938.240
10	2934.559	3064.256	3185.139	2728.634	2582.304	2574.842	2408.675
15	1610.127	1682.610	1784.146	1488.827	1398.672	1390.209	1279.761
20	894.866	923.775	972.999	840.569	806.923	798.769	738.646
25	577.735	586.386	584.905	539.797	545.606	514.479	434.198
30	426.826	347.980	259.935	281.412	409.312	254.918	157.718
35	246.306	118.441	59.151	77.556	241.862	66.339	27.061
40	69.924	22.865	17.055	18.172	75.641	19.581	16.742
45	18.336	16.588	14.144	15.884	18.273	17.175	14.722

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<b>50</b>	15.034	15.744	13.263	15.003	15.841	15.352	13.083
<b>55</b>	14.104	15.437	12.376	14.213	15.480	15.116	12.818
<b>60</b>	13.407	13.497	11.421	12.380	14.386	13.469	11.153
<b>65</b>	12.314	14.166	10.455	12.163	11.953	12.740	10.836
<b>70</b>	11.441	13.156	11.781	10.511	9.606	11.110	10.431
<b>75</b>	9.995	10.099	9.448	6.454	5.493	7.482	6.845
<b>80</b>	7.381	7.589	6.974	2.931	3.052	3.528	3.581
<b>85</b>	6.317	5.497	5.204	1.336	1.549	1.902	1.363
<b>90</b>	1.666	4.177	4.457	0.163	0.324	0.092	0.455
<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	737.60	N.A.	68.30
0-30	960.04	N.A.	89.00
0-40	1028.00	N.A.	95.30
0-60	1053.84	N.A.	97.60
0-80	1074.59	N.A.	99.60
0-90	1078.71	N.A.	99.90
10-90	742.65	N.A.	68.80
20-40	290.40	N.A.	26.90
20-50	304.14	N.A.	28.20
40-70	37.82	N.A.	3.50
60-80	20.76	N.A.	1.90
70-80	8.77	N.A.	0.80
80-90	4.12	N.A.	0.40
90-110	0.54	N.A.	0.10
90-120	0.54	N.A.	0.10
90-130	0.54	N.A.	0.10
90-150	0.54	N.A.	0.10
90-180	0.54	N.A.	0.10
110-180	0.00	N.A.	0.00
0-180	1079.25	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	336.06
10-20	401.53
20-30	222.45
30-40	67.96
40-50	13.74
50-60	12.10
60-70	11.98
70-80	8.77
80-90	4.12
90-100	0.54
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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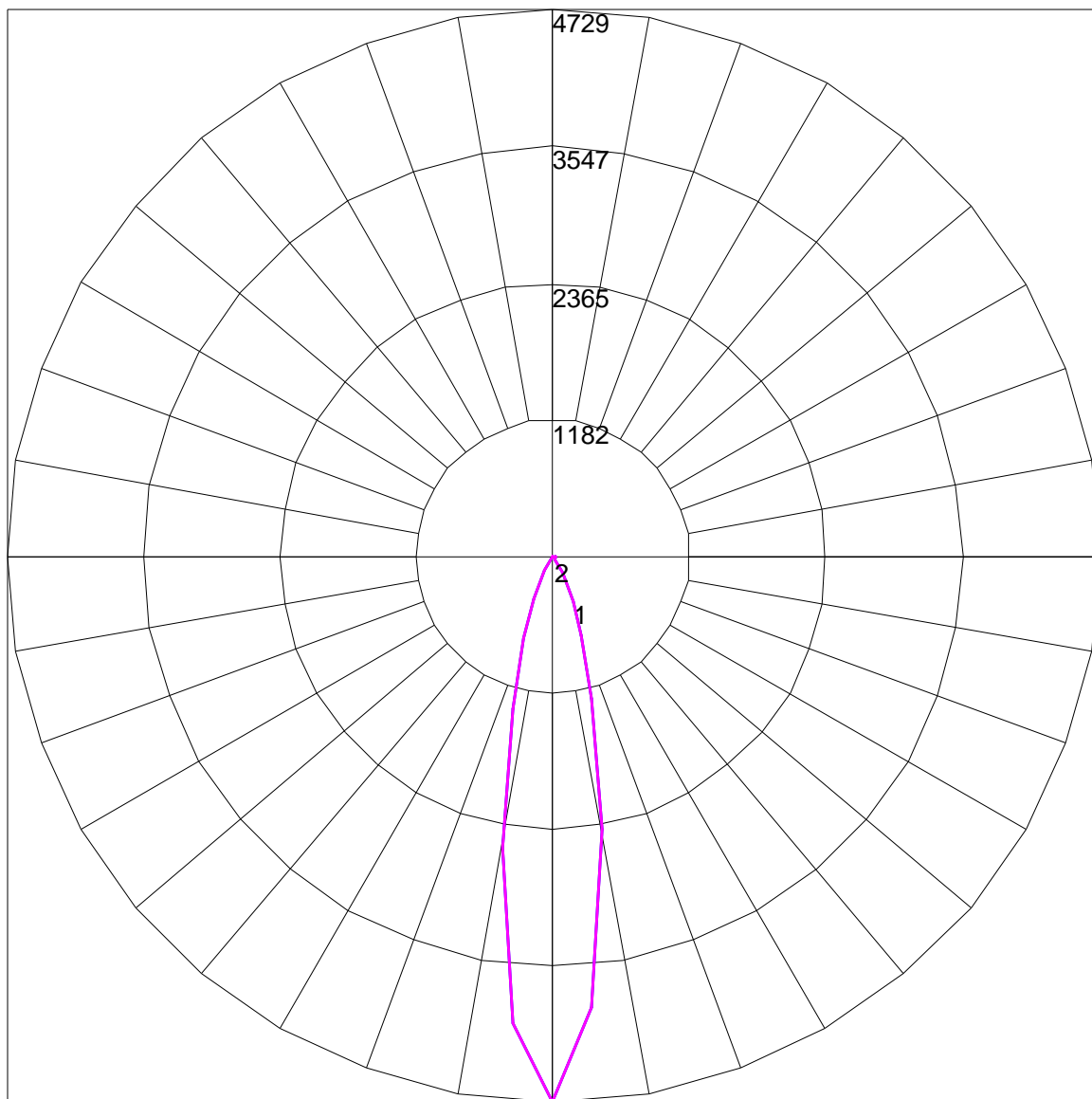
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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

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POLAR GRAPH



Maximum Candela = 4729.144 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)