

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00618\_2 ~ C0611SQXT-10LXXK-MDEX-TCY-NLMW.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00618\_2\_M-10L

[TESTLAB] VLS-245-981

[MANUFAC] Spectrum Lighting

[ISSUE DATE] 6/29/2017

[UPDATE] 3/26/2018

[LUMCAT] C0611SQXT-10L-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	910
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	100
Total Luminaire Watts	9.1
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-10LXXK-MDEX-TCY-NLMW.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4057	4015	3648
55	2735	3146	2533
65	2934	3053	2608
75	3150	3532	3420
85	2672	3005	3442

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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	1862.433	1862.433	1862.433	1862.433	1862.433	1862.433	1862.433	1862.433	1862.433	1862.433
5	1763.393	1770.984	1771.321	1782.394	1777.467	1769.331	1774.056	1771.409	1767.521	1768.734
10	1515.568	1522.286	1525.942	1529.566	1530.453	1524.854	1531.567	1528.195	1526.070	1520.899
15	1186.054	1190.878	1198.493	1193.238	1197.164	1197.829	1205.071	1198.478	1198.362	1192.647
20	858.956	871.562	886.116	868.838	860.870	869.585	886.825	870.336	851.305	859.011
25	545.438	604.630	635.074	576.493	525.662	575.340	630.107	584.704	500.159	557.013
30	232.966	351.310	440.421	260.274	207.496	269.862	429.687	281.334	198.845	228.183
35	71.144	100.922	237.278	63.302	57.192	83.651	223.328	87.857	57.795	71.863
40	37.781	39.700	65.044	36.148	34.354	34.556	54.658	33.713	34.316	37.315
45	26.755	27.794	26.482	25.843	24.057	24.533	24.115	23.020	23.841	26.205
50	19.722	21.703	20.753	19.853	18.240	18.977	18.590	17.536	17.446	19.428
55	14.629	16.581	16.832	15.544	13.552	15.007	14.604	14.549	13.281	15.285
60	12.154	13.829	14.105	12.256	11.018	12.635	13.461	12.499	11.289	12.906
65	11.565	12.074	12.034	12.128	10.279	11.891	12.750	12.437	11.005	13.075
70	10.376	10.785	10.964	11.082	10.533	11.910	11.888	11.917	11.388	12.286
75	7.603	8.181	8.525	8.643	8.256	11.516	10.073	11.183	10.357	10.776
80	4.855	5.153	4.542	5.848	5.112	9.461	8.522	8.823	8.484	8.235
85	2.172	2.478	2.443	2.700	2.798	6.783	6.854	6.771	6.708	6.432
90	0.522	0.563	0.949	0.913	0.908	5.556	5.349	5.203	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	1862.433	1862.433	1862.433	1862.433	1862.433	1862.433	1862.433
5	1763.525	1788.078	1786.749	1779.336	1777.867	1770.762	1763.393
10	1518.443	1538.261	1540.373	1538.709	1533.828	1527.789	1515.568
15	1192.649	1196.071	1196.489	1202.837	1201.983	1199.599	1186.054
20	880.606	872.189	860.954	874.247	880.956	874.978	858.956
25	625.983	599.835	541.913	595.108	627.675	591.254	545.438
30	437.678	331.280	200.388	313.925	448.432	311.091	232.966
35	205.599	79.662	65.378	96.837	250.643	90.651	71.144
40	61.148	37.607	36.199	38.565	77.472	39.232	37.781
45	27.836	26.409	24.769	27.016	29.694	28.046	26.755

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<b>50</b>	20.451	20.495	18.079	19.883	21.389	21.233	19.722
<b>55</b>	16.835	16.486	12.968	15.295	18.381	16.709	14.629
<b>60</b>	14.615	13.727	12.415	13.107	15.237	13.648	12.154
<b>65</b>	13.546	13.864	11.300	11.851	12.892	12.805	11.565
<b>70</b>	12.017	12.053	11.772	9.926	10.225	10.932	10.376
<b>75</b>	10.404	10.299	9.337	6.868	6.327	7.693	7.603
<b>80</b>	7.851	7.855	7.843	3.949	4.191	4.375	4.855
<b>85</b>	5.895	5.854	5.730	1.489	1.698	1.935	2.172
<b>90</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.522
<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	493.62	N.A.	54.20
0-30	758.77	N.A.	83.30
0-40	847.72	N.A.	93.10
0-60	884.03	N.A.	97.10
0-80	905.64	N.A.	99.50
0-90	910.11	N.A.	100.00
10-90	748.51	N.A.	82.20
20-40	354.10	N.A.	38.90
20-50	376.22	N.A.	41.30
40-70	48.40	N.A.	5.30
60-80	21.61	N.A.	2.40
70-80	9.53	N.A.	1.00
80-90	4.47	N.A.	0.50
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	910.46	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	161.60
10-20	332.01
20-30	265.15
30-40	88.95
40-50	22.12
50-60	14.19
60-70	12.09
70-80	9.53
80-90	4.47
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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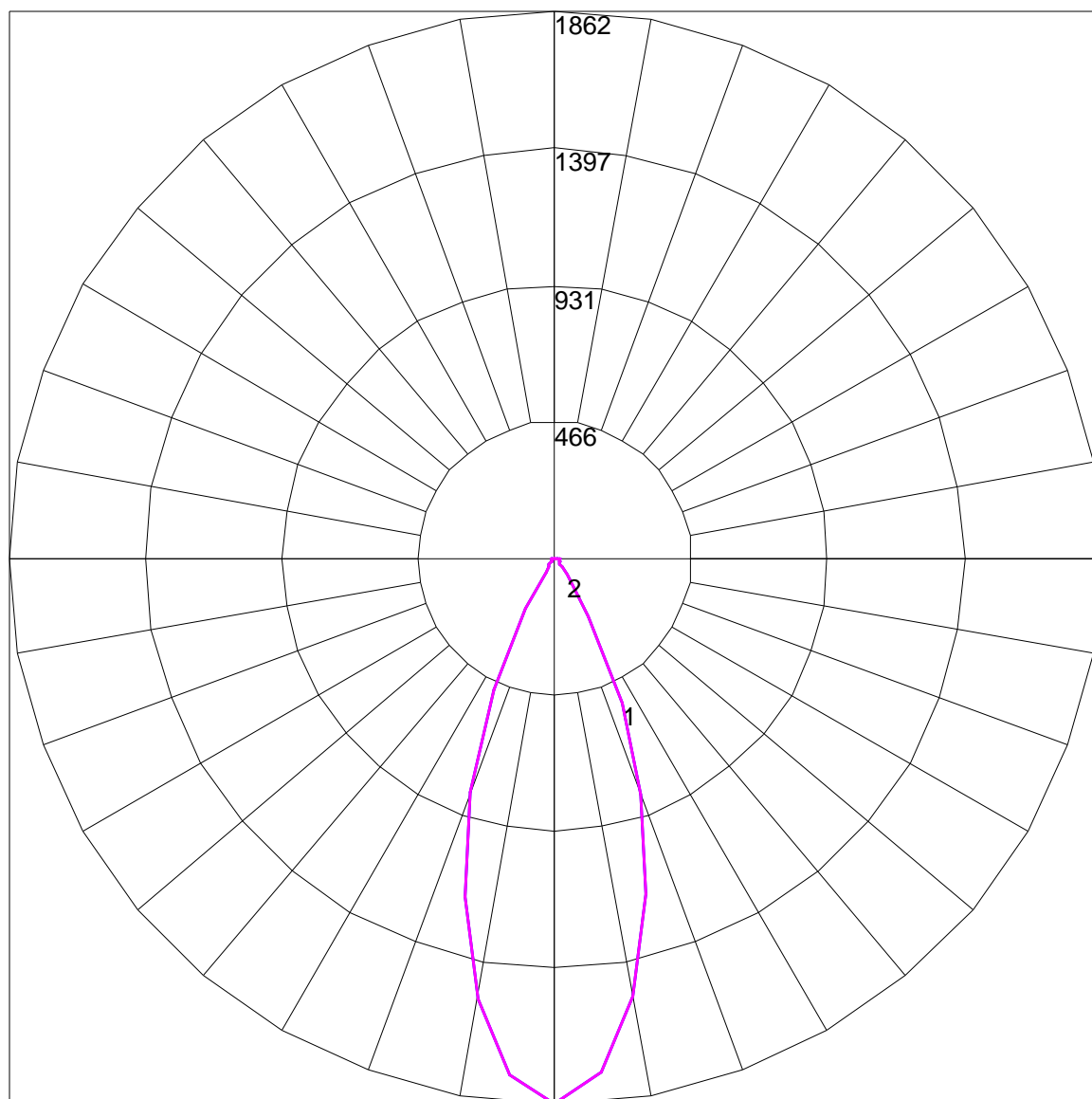
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	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	98	91	86	83	89	85	82	87	84	81	85	82	80	79
5	95	87	82	78	93	87	82	78	85	80	77	83	79	76	82	78	76	74
6	91	83	78	74	90	82	77	74	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 = 1862.433 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)