

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00618\_6 ~ C0611SQXT-20LXXK-NDEX-TCY-NLMW.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00618\_6\_M-20L

[TESTLAB] VLS-245-981

[MANUFAC] Spectrum Lighting

[ISSUE DATE] 6/29/2017

[UPDATE] 3/26/2018

[LUMCAT] C0611SQXT-20L-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	2237
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	103
Total Luminaire Watts	21.7
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-20LXXK-NDEX-TCY-NLMW.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4628	5009	4482
55	4967	5238	5048
65	5699	5850	5669
75	5878	4630	5580
85	3477	3822	3512

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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>	9803.857	9803.857	9803.857	9803.857	9803.857	9803.857	9803.857	9803.857	9803.857	9803.857
<b>5</b>	8164.255	8099.045	7313.166	7143.517	7004.597	7944.044	8195.823	8169.069	8426.215	8410.194
<b>10</b>	4993.357	4939.433	4165.787	4033.202	3871.504	4727.050	5019.826	5006.264	5300.120	5274.260
<b>15</b>	2653.036	2629.446	2223.447	2155.124	2042.832	2487.834	2673.147	2652.449	2834.688	2814.748
<b>20</b>	1531.267	1523.692	1368.666	1301.349	1208.860	1435.766	1541.726	1500.108	1574.059	1590.048
<b>25</b>	900.123	1016.073	985.723	750.229	599.429	877.761	1059.077	941.300	853.051	947.751
<b>30</b>	326.961	520.214	674.653	252.942	143.124	348.083	760.066	409.070	272.084	383.725
<b>35</b>	56.099	138.125	281.864	51.834	36.721	69.025	343.360	90.707	46.765	75.752
<b>40</b>	34.708	35.984	58.018	35.670	33.731	33.248	79.917	34.424	31.121	35.304
<b>45</b>	30.520	30.497	33.037	30.380	29.559	29.876	30.901	31.536	27.229	31.766
<b>50</b>	27.121	28.498	29.878	27.899	26.336	28.956	30.097	28.896	25.973	28.864
<b>55</b>	26.573	27.445	28.023	26.551	27.005	27.926	27.907	27.519	23.692	27.565
<b>60</b>	23.122	26.060	24.936	26.541	24.761	26.237	27.717	28.464	24.755	25.851
<b>65</b>	22.464	23.881	23.058	24.807	22.347	28.662	28.141	26.890	26.414	27.707
<b>70</b>	21.625	23.062	19.948	18.974	17.930	28.026	23.709	24.238	24.021	24.859
<b>75</b>	14.190	17.043	11.177	14.383	13.471	23.487	20.470	20.072	19.451	21.064
<b>80</b>	7.424	7.643	5.936	6.651	7.617	17.731	16.320	16.955	15.748	16.130
<b>85</b>	2.826	2.781	3.107	2.493	2.855	14.500	12.987	13.599	12.923	13.479
<b>90</b>	0.943	0.163	0.855	0.557	1.566	10.385	3.980	9.954	4.265	9.736
<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>	9803.857	9803.857	9803.857	9803.857	9803.857	9803.857	9803.857
<b>5</b>	9038.679	9238.055	9428.585	8730.050	8484.738	8473.584	8164.255
<b>10</b>	6083.554	6352.424	6603.023	5656.656	5353.302	5337.834	4993.357
<b>15</b>	3337.910	3488.171	3698.663	3086.446	2899.548	2882.003	2653.036
<b>20</b>	1855.123	1915.053	2017.096	1742.560	1672.809	1655.905	1531.267
<b>25</b>	1197.687	1215.620	1212.550	1119.037	1131.081	1066.553	900.123
<b>30</b>	884.840	721.388	538.864	583.388	848.532	528.464	326.961
<b>35</b>	510.610	245.536	122.625	160.779	501.396	137.525	56.099
<b>40</b>	144.958	47.400	35.357	37.671	156.809	40.593	34.708
<b>45</b>	38.012	34.389	29.322	32.928	37.882	35.604	30.520

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<b>50</b>	31.168	32.638	27.495	31.102	32.840	31.826	27.121
<b>55</b>	29.238	32.002	25.657	29.465	32.091	31.336	26.573
<b>60</b>	27.794	27.981	23.677	25.665	29.823	27.921	23.122
<b>65</b>	25.529	29.367	21.673	25.215	24.779	26.410	22.464
<b>70</b>	23.717	27.273	24.423	21.789	19.913	23.032	21.625
<b>75</b>	20.720	20.935	19.586	13.379	11.387	15.510	14.190
<b>80</b>	15.301	15.733	14.457	6.077	6.328	7.314	7.424
<b>85</b>	13.095	11.396	10.789	2.769	3.210	3.944	2.826
<b>90</b>	3.454	8.659	9.240	0.338	0.671	0.191	0.943
<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	1529.09	N.A.	68.30
0-30	1990.24	N.A.	89.00
0-40	2131.11	N.A.	95.30
0-60	2184.68	N.A.	97.60
0-80	2227.71	N.A.	99.60
0-90	2236.25	N.A.	100.00
10-90	1539.57	N.A.	68.80
20-40	602.02	N.A.	26.90
20-50	630.50	N.A.	28.20
40-70	78.40	N.A.	3.50
60-80	43.03	N.A.	1.90
70-80	18.19	N.A.	0.80
80-90	8.55	N.A.	0.40
90-110	1.11	N.A.	0.00
90-120	1.11	N.A.	0.00
90-130	1.11	N.A.	0.00
90-150	1.11	N.A.	0.00
90-180	1.11	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	2237.36	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	696.69
10-20	832.40
20-30	461.15
30-40	140.88
40-50	28.48
50-60	25.08
60-70	24.84
70-80	18.19
80-90	8.55
90-100	1.11
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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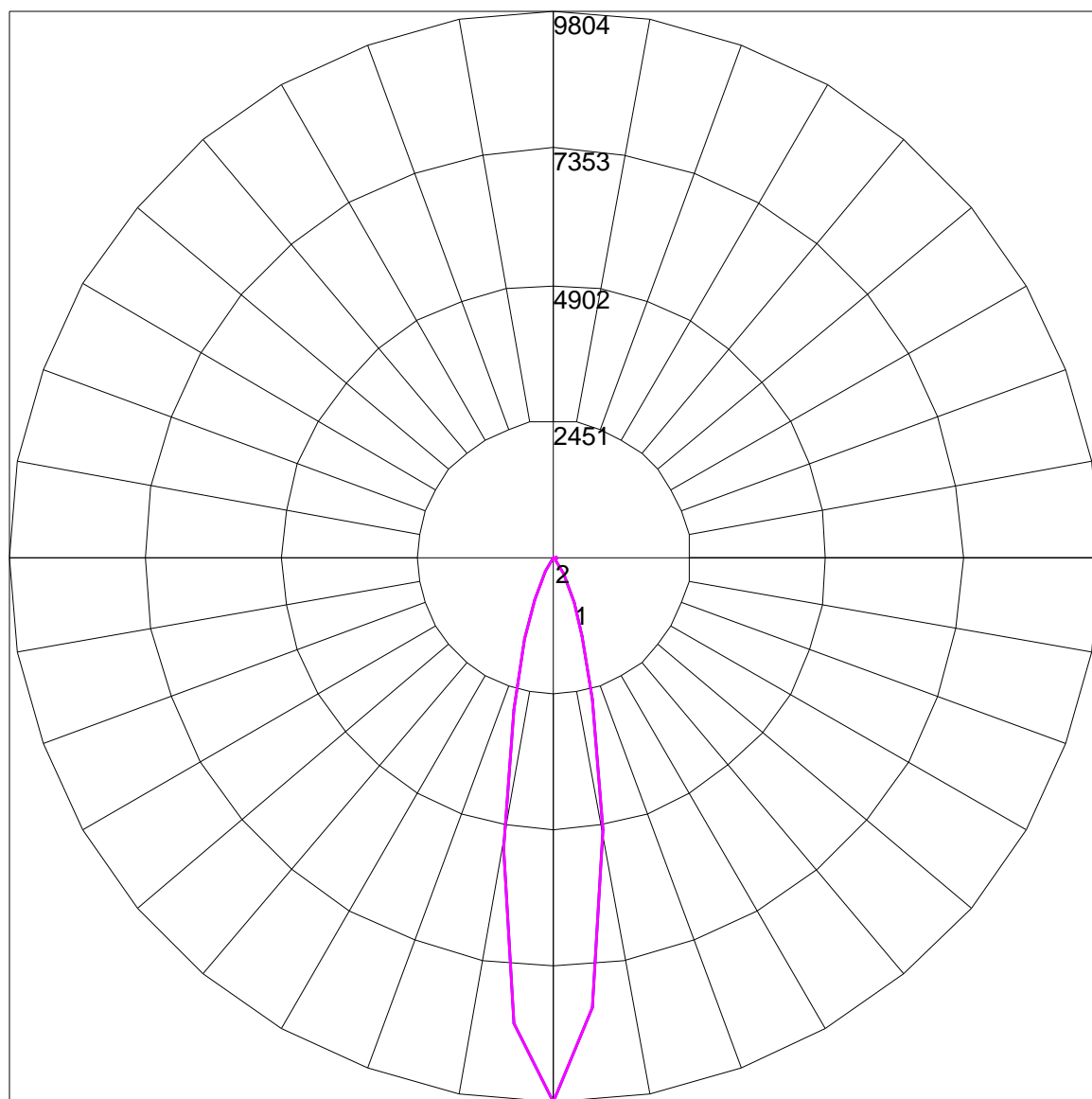
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	99	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	98	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	74
8	89	82	77	74	88	81	77	74	80	76	74	79	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 = 9803.857 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)