

**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : SP-00618\_18 ~ C0611SQXT-20LXXK-XWEX-TCY-NLMW.IES**
**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] SP-00618\_18\_M-20L  
 [TESTLAB] VLS-245-981  
 [MANUFAC] Spectrum Lighting  
 [ISSUE DATE] 6/29/2017  
 [UPDATE] 3/26/2018  
 [LUMCAT] C0611SQXT-20L-xxK-XW-EX-TCY-NL-xx-MW  
 [LUMINAIRE] Nom. 6" Square, LED Cylinder Downlight  
 [OTHER] Upper, Internal Reflector, Xtra Wide Beam  
 [OTHER] Lower Trim, Same Color as Cylinder - Matte White  
 [OTHER] No Lens, Flush with Lower Trim  
 [OTHER] 52.8 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	1903
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	88
Total Luminaire Watts	21.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.86
Spacing Criterion (90-270)	0.86
Spacing Criterion (Diagonal)	0.90
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\_18 ~ C0611SQXT-20LXXK-XWEX-TCY-NLMW.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	16428	16426	16367
55	6978	8784	6765
65	6676	7032	6254
75	6998	7264	7709
85	4917	6212	7435

# IES INDOOR REPORT

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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	2334.768	2334.768	2334.768	2334.768	2334.768	2334.768	2334.768	2334.768	2334.768	2334.768
5	2295.802	2286.052	2293.005	2300.467	2296.406	2304.615	2297.942	2300.165	2300.271	2300.026
10	2188.299	2176.217	2185.135	2207.670	2204.832	2212.181	2194.893	2198.550	2195.385	2196.232
15	1998.469	1988.701	2015.955	2040.921	2031.306	2052.574	2033.453	2027.599	2023.121	2034.102
20	1720.588	1716.077	1759.945	1790.653	1764.903	1785.065	1774.273	1754.093	1745.389	1781.411
25	1352.399	1425.393	1488.612	1451.875	1344.863	1464.681	1497.558	1452.630	1361.961	1437.875
30	697.573	885.901	1164.937	850.354	673.451	874.926	1184.720	894.087	681.810	857.078
35	295.448	320.291	613.297	373.904	316.765	345.899	653.067	344.680	310.130	349.165
40	177.311	170.463	197.366	191.944	183.753	193.025	212.741	191.922	186.800	194.770
45	108.341	106.007	108.328	116.610	107.943	118.391	117.760	117.255	110.702	118.471
50	63.454	66.405	69.279	70.111	62.491	71.104	72.603	70.648	62.514	70.749
55	37.328	42.605	46.991	42.828	36.192	44.631	47.208	43.026	36.859	44.259
60	27.873	30.676	33.724	29.608	25.677	31.948	34.428	31.710	27.959	31.992
65	26.315	26.982	27.718	26.327	24.653	28.705	30.272	28.812	26.628	28.747
70	23.323	23.972	22.906	24.505	22.034	28.223	27.323	28.179	26.076	28.491
75	16.892	17.942	17.534	20.327	18.609	26.389	24.433	24.447	22.703	25.502
80	9.680	9.750	10.351	12.459	12.803	21.462	19.312	20.494	18.679	19.920
85	3.997	4.004	5.050	6.705	6.044	16.389	15.885	15.643	13.899	14.413
90	0.000	0.000	1.440	2.318	1.781	12.152	11.009	10.785	10.438	10.341
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. 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	2334.768	2334.768	2334.768	2334.768	2334.768	2334.768	2334.768
5	2295.077	2288.818	2300.281	2303.275	2306.387	2297.044	2295.802
10	2192.698	2177.276	2196.664	2199.780	2210.766	2199.135	2188.299
15	2025.140	1978.520	2001.203	2003.597	2036.797	2022.040	1998.469
20	1773.938	1723.622	1739.834	1730.862	1771.172	1751.232	1720.588
25	1500.757	1428.998	1334.362	1418.474	1496.133	1426.611	1352.399
30	1164.611	862.963	722.591	881.703	1181.306	887.168	697.573
35	663.559	367.224	324.392	347.041	725.913	351.170	295.448
40	250.371	182.344	186.337	186.526	295.663	190.766	177.311
45	118.807	111.967	112.468	115.495	125.996	120.533	108.341

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50	75.275	69.469	65.633	69.911	80.238	74.160	63.454
55	50.650	43.452	38.020	42.957	52.859	44.856	37.328
60	37.101	32.795	29.194	30.334	36.955	32.260	27.873
65	31.324	31.101	28.075	26.614	28.834	28.507	26.315
70	27.515	28.204	25.401	22.099	23.725	24.441	23.323
75	22.074	22.993	22.035	15.761	16.488	17.868	16.892
80	16.950	17.728	15.378	8.474	9.593	9.695	9.680
85	14.132	12.497	13.449	3.536	3.682	4.268	3.997
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000
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

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00618\_18 ~ C0611SQXT-20LXXK-XWEX-TCY-NLMW.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	777.30	N.A.	40.80
0-30	1406.79	N.A.	73.90
0-40	1704.78	N.A.	89.60
0-60	1842.1	N.A.	96.80
0-80	1891.65	N.A.	99.40
0-90	1901.87	N.A.	99.90
10-90	1685.73	N.A.	88.60
20-40	927.48	N.A.	48.70
20-50	1022.9	N.A.	53.80
40-70	165.36	N.A.	8.70
60-80	49.55	N.A.	2.60
70-80	21.51	N.A.	1.10
80-90	10.22	N.A.	0.50
90-110	1.03	N.A.	0.10
90-120	1.03	N.A.	0.10
90-130	1.03	N.A.	0.10
90-150	1.03	N.A.	0.10
90-180	1.03	N.A.	0.10
110-180	0.00	N.A.	0.00
0-180	1902.9	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	216.14
10-20	561.16
20-30	629.49
30-40	297.98
40-50	95.42
50-60	41.90
60-70	28.04
70-80	21.51
80-90	10.22
90-100	1.03
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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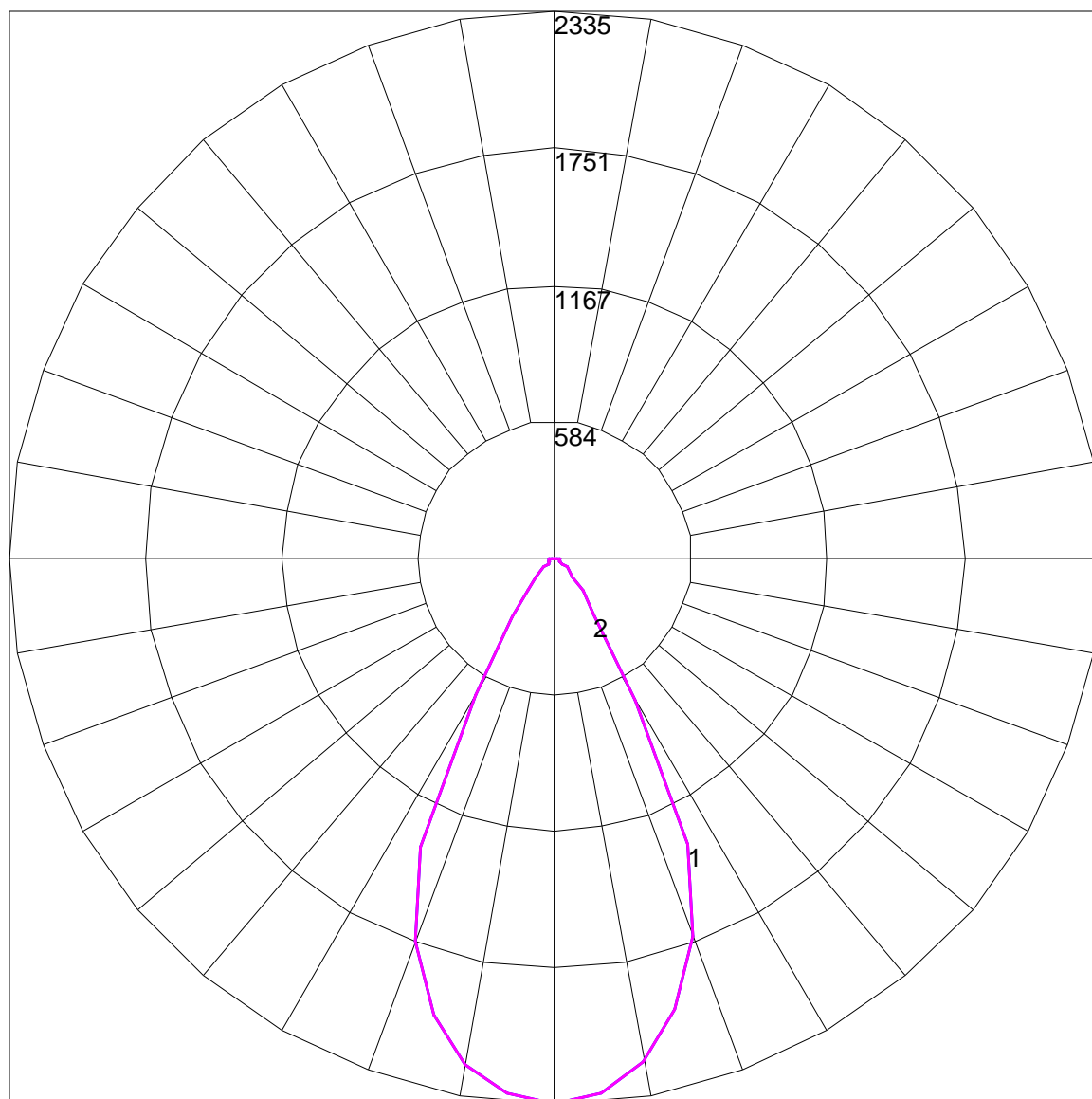
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	113	110	108	105	111	108	106	103	104	102	100	100	99	97	97	96	94	93
2	107	102	98	94	105	100	97	93	97	94	91	94	92	89	91	89	88	86
3	102	95	90	86	100	94	89	85	91	87	84	89	85	83	86	84	81	80
4	97	89	83	79	95	88	83	79	86	81	78	84	80	77	82	79	76	74
5	92	83	78	73	90	83	77	73	81	76	72	79	75	72	77	74	71	69
6	87	79	72	68	86	78	72	68	76	71	67	75	70	67	73	70	67	65
7	83	74	68	64	82	73	68	64	72	67	63	71	66	63	70	66	63	61
8	79	70	64	60	78	69	64	60	68	63	59	67	63	59	66	62	59	58
9	76	66	60	56	75	66	60	56	65	60	56	64	59	56	63	59	56	54
10	72	63	57	53	71	62	57	53	61	56	53	61	56	53	60	56	53	51

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POLAR GRAPH



Maximum Candela = 2334.768 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)