

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00618_19 ~ C0611SQXT-20LXXK-XWEX-TCY-SOMW.IES
DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] SP-00618_19_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-SO-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] Solite Lens, Flush with Lower Trim
 [OTHER] 53.2 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	1769
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	82
Total Luminaire Watts	21.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.82
Spacing Criterion (90-270)	0.82
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

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Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	15469	15053	15000
55	6241	8193	7069
65	5422	6197	5971
75	5286	5305	5870
85	3842	3133	3832

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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	2106.182	2106.182	2106.182	2106.182	2106.182	2106.182	2106.182	2106.182	2106.182	2106.182
5	2049.550	2044.235	2036.342	2051.827	2057.933	2086.325	2088.366	2082.714	2090.955	2088.331
10	1940.019	1926.818	1912.742	1936.627	1940.936	2006.258	2007.029	2000.639	2009.953	2010.370
15	1751.152	1745.412	1724.037	1739.931	1742.270	1849.733	1862.687	1849.439	1858.402	1864.980
20	1491.225	1510.006	1484.364	1491.761	1476.667	1615.949	1640.527	1626.241	1634.047	1650.185
25	1079.955	1187.173	1208.383	1158.103	1076.905	1344.214	1374.930	1354.168	1344.612	1388.160
30	536.158	662.207	845.246	670.838	572.363	960.957	1063.962	948.331	855.729	993.402
35	270.782	289.219	444.911	295.903	267.855	484.384	694.017	464.651	386.261	495.212
40	166.893	165.608	182.340	161.071	156.795	217.339	354.840	216.045	212.644	233.936
45	102.018	104.153	99.278	101.572	98.928	128.900	155.079	130.315	133.248	141.869
50	58.850	64.416	64.925	64.181	61.107	85.272	88.651	84.206	81.748	89.526
55	33.385	39.958	43.832	42.198	37.819	58.247	60.912	56.543	50.124	57.399
60	23.919	28.239	31.378	29.836	27.578	42.291	44.526	39.933	34.594	38.326
65	21.370	24.024	24.425	23.886	23.537	34.793	35.740	32.566	28.379	29.766
70	17.884	19.509	19.182	19.671	20.211	32.630	30.234	30.728	27.805	27.249
75	12.761	13.589	12.806	11.819	14.169	27.649	23.927	28.478	25.045	25.079
80	7.962	7.560	7.169	7.606	7.497	22.200	20.798	21.391	19.981	18.808
85	3.123	3.624	2.547	2.795	3.115	15.896	15.236	15.219	14.351	13.894
90	1.747	1.469	1.161	1.403	1.309	9.222	8.906	9.041	9.003	8.524
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	2106.182	2106.182	2106.182	2106.182	2106.182	2106.182	2106.182
5	2101.964	2095.849	2093.181	2071.392	2066.444	2062.750	2049.550
10	2031.907	2026.284	2024.856	1977.214	1970.487	1966.412	1940.019
15	1901.305	1889.302	1885.629	1807.918	1804.795	1790.318	1751.152
20	1703.145	1677.321	1664.925	1555.192	1576.838	1552.603	1491.225
25	1462.936	1402.161	1355.145	1205.652	1316.313	1219.054	1079.955
30	1192.120	966.711	789.757	678.540	972.233	665.146	536.158
35	827.397	461.397	363.096	308.839	518.885	299.626	270.782
40	412.311	226.229	211.012	176.122	203.994	174.609	166.893
45	166.641	137.896	130.423	107.416	108.728	108.367	102.018

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50	95.584	86.104	77.997	63.664	66.757	66.116	58.850
55	61.730	53.447	45.517	37.539	42.493	40.313	33.385
60	41.978	35.506	27.663	24.081	28.917	26.701	23.919
65	30.659	28.323	23.489	19.373	21.460	22.533	21.370
70	26.357	26.276	23.439	16.615	16.865	18.519	17.884
75	23.413	23.455	21.764	12.373	11.953	14.049	12.761
80	19.102	19.090	18.212	6.878	7.009	8.290	7.962
85	15.367	15.498	12.272	3.346	2.893	4.002	3.123
90	10.282	10.199	10.887	1.409	1.413	0.469	1.747
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	700.52	N.A.	39.60
0-30	1268.68	N.A.	71.70
0-40	1562.88	N.A.	88.30
0-60	1710.75	N.A.	96.70
0-80	1757.56	N.A.	99.30
0-90	1767.65	N.A.	99.90
10-90	1572.68	N.A.	88.90
20-40	862.36	N.A.	48.70
20-50	964.99	N.A.	54.50
40-70	174.92	N.A.	9.90
60-80	46.81	N.A.	2.60
70-80	19.76	N.A.	1.10
80-90	10.09	N.A.	0.60
90-110	1.48	N.A.	0.10
90-120	1.48	N.A.	0.10
90-130	1.48	N.A.	0.10
90-150	1.48	N.A.	0.10
90-180	1.48	N.A.	0.10
110-180	0.00	N.A.	0.00
0-180	1769.13	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	194.97
10-20	505.55
20-30	568.16
30-40	294.20
40-50	102.63
50-60	45.23
60-70	27.05
70-80	19.76
80-90	10.09
90-100	1.48
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

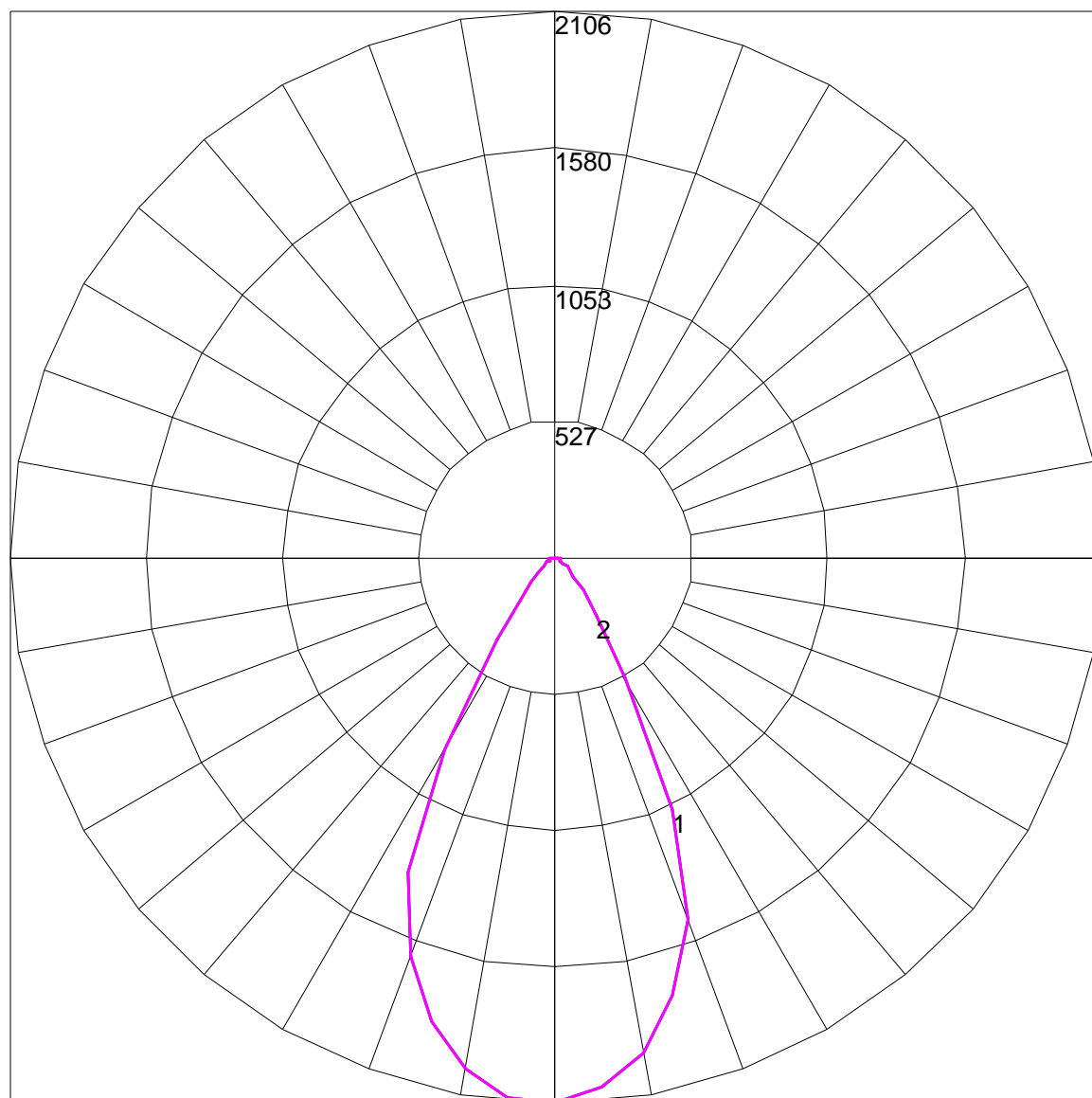
Effective Floor Cavity Reflectance 0.20

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	107	105	110	108	105	103	104	102	100	100	98	97	97	95	94	92
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	85
3	102	95	90	86	100	93	89	85	91	87	83	88	85	82	86	83	81	79
4	96	89	83	78	95	87	82	78	85	81	77	83	79	76	81	78	75	74
5	91	83	77	72	90	82	76	72	80	75	71	78	74	71	77	73	70	69
6	87	78	72	67	85	77	71	67	75	70	67	74	70	66	73	69	66	64
7	83	73	67	63	81	73	67	63	71	66	62	70	65	62	69	65	62	60
8	79	69	63	59	77	69	63	59	67	62	58	66	62	58	65	61	58	57
9	75	65	59	55	74	65	59	55	64	59	55	63	58	55	62	58	55	53
10	72	62	56	52	71	61	56	52	61	55	52	60	55	52	59	55	52	50

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POLAR GRAPH



Maximum Candela = 2106.182 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)