

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00618_5 ~ C0611SQXT-20LXXK-NDEX-TCY-GLMW.IES
DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] SP-00618_5_M-20L

[TESTLAB] VLS-245-981

[MANUFAC] Spectrum Lighting

[ISSUEDATE] 6/29/2017

[UPDATE] 3/26/2018

[LUMCAT] C0611SQXT-20L-xxK-ND-EX-TCY-GL-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] Clear Glass Lens, Flush with Lower Trim

[OTHER] 21 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	2037
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	94
Total Luminaire Watts	21.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.36
Spacing Criterion (90-270)	0.36
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_5 ~ C0611SQXT-20LXXK-NDEX-TCY-GLMW.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4892	5509	4889
55	5644	5434	5701
65	5040	5893	5762
75	5220	5160	6300
85	3270	3987	5639

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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	8853.443	8853.443	8853.443	8853.443	8853.443	8853.443	8853.443	8853.443	8853.443	8853.443
5	7412.017	7375.842	7370.095	7412.037	7511.916	7474.734	7549.191	7431.498	7440.905	7362.748
10	4617.314	4585.614	4586.710	4566.934	4653.084	4656.389	4603.446	4628.949	4602.477	4600.177
15	2478.173	2471.340	2494.109	2496.181	2490.836	2510.223	2460.676	2497.436	2466.473	2492.070
20	1426.887	1429.637	1462.490	1451.073	1421.859	1442.371	1446.924	1439.116	1408.330	1437.859
25	847.568	935.701	994.953	910.310	819.545	891.675	988.932	922.453	808.195	892.477
30	331.403	520.223	713.348	385.982	302.148	425.347	719.921	471.090	290.891	394.770
35	66.119	130.363	383.571	95.841	47.842	91.789	394.272	121.567	44.494	95.322
40	36.480	40.133	89.288	38.444	34.823	37.367	79.221	37.743	32.194	38.666
45	32.261	33.499	36.335	32.536	32.246	32.038	36.419	32.540	29.638	33.551
50	31.916	31.348	29.754	28.884	31.543	31.400	32.825	30.272	29.875	30.540
55	30.195	28.896	29.069	27.854	30.496	30.887	30.205	29.287	28.720	28.363
60	24.095	24.803	26.774	26.593	26.838	29.467	28.123	27.645	24.748	27.401
65	19.866	22.768	23.229	25.451	22.710	27.433	26.849	26.117	23.276	25.703
70	18.340	18.909	19.791	19.522	18.422	26.726	24.065	25.657	23.363	26.565
75	12.601	14.001	12.457	15.691	15.209	22.975	21.180	20.582	20.664	20.914
80	6.873	7.022	8.530	8.290	9.300	18.203	15.419	16.423	15.475	15.841
85	2.658	2.405	3.241	3.848	4.584	11.799	12.024	11.561	10.901	12.731
90	0.375	0.000	1.587	1.055	1.129	9.664	8.556	8.688	6.556	9.337
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	8853.443	8853.443	8853.443	8853.443	8853.443	8853.443	8853.443
5	7339.920	7540.797	7444.232	7446.386	7475.981	7454.519	7412.017
10	4604.618	4568.430	4669.206	4664.788	4607.389	4628.736	4617.314
15	2513.829	2420.060	2520.567	2512.958	2490.478	2474.646	2478.173
20	1461.894	1402.556	1423.285	1434.777	1451.330	1431.522	1426.887
25	997.545	938.858	818.700	929.172	996.578	923.713	847.568
30	732.201	529.162	297.861	477.366	754.304	477.005	331.403
35	392.396	104.038	62.298	129.561	439.676	121.067	66.119
40	118.334	41.645	37.031	42.883	142.602	44.474	36.480
45	38.933	33.791	31.986	36.401	43.204	39.025	32.261

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50	33.668	32.925	30.731	31.647	33.612	34.376	31.916
55	33.763	29.503	30.564	28.263	32.237	29.011	30.195
60	31.590	30.529	27.015	26.660	28.144	25.167	24.095
65	29.000	28.297	25.391	25.432	22.051	21.968	19.866
70	22.306	24.934	20.288	19.306	18.865	20.662	18.340
75	18.668	20.418	17.836	10.807	13.077	14.407	12.601
80	14.538	15.171	14.684	5.498	5.397	5.672	6.873
85	12.009	11.217	10.841	3.027	2.127	2.715	2.658
90	0.000	0.000	0.000	0.000	0.000	0.000	0.375
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	1370.62	N.A.	67.30
0-30	1794.5	N.A.	88.10
0-40	1929.19	N.A.	94.70
0-60	1985.85	N.A.	97.50
0-80	2027.94	N.A.	99.60
0-90	2035.86	N.A.	100.00
10-90	1409.81	N.A.	69.20
20-40	558.57	N.A.	27.40
20-50	588.69	N.A.	28.90
40-70	81.05	N.A.	4.00
60-80	42.10	N.A.	2.10
70-80	17.71	N.A.	0.90
80-90	7.91	N.A.	0.40
90-110	0.80	N.A.	0.00
90-120	0.80	N.A.	0.00
90-130	0.80	N.A.	0.00
90-150	0.80	N.A.	0.00
90-180	0.80	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	2036.66	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	626.05
10-20	744.57
20-30	423.88
30-40	134.70
40-50	30.11
50-60	26.54
60-70	24.39
70-80	17.71
80-90	7.91
90-100	0.80
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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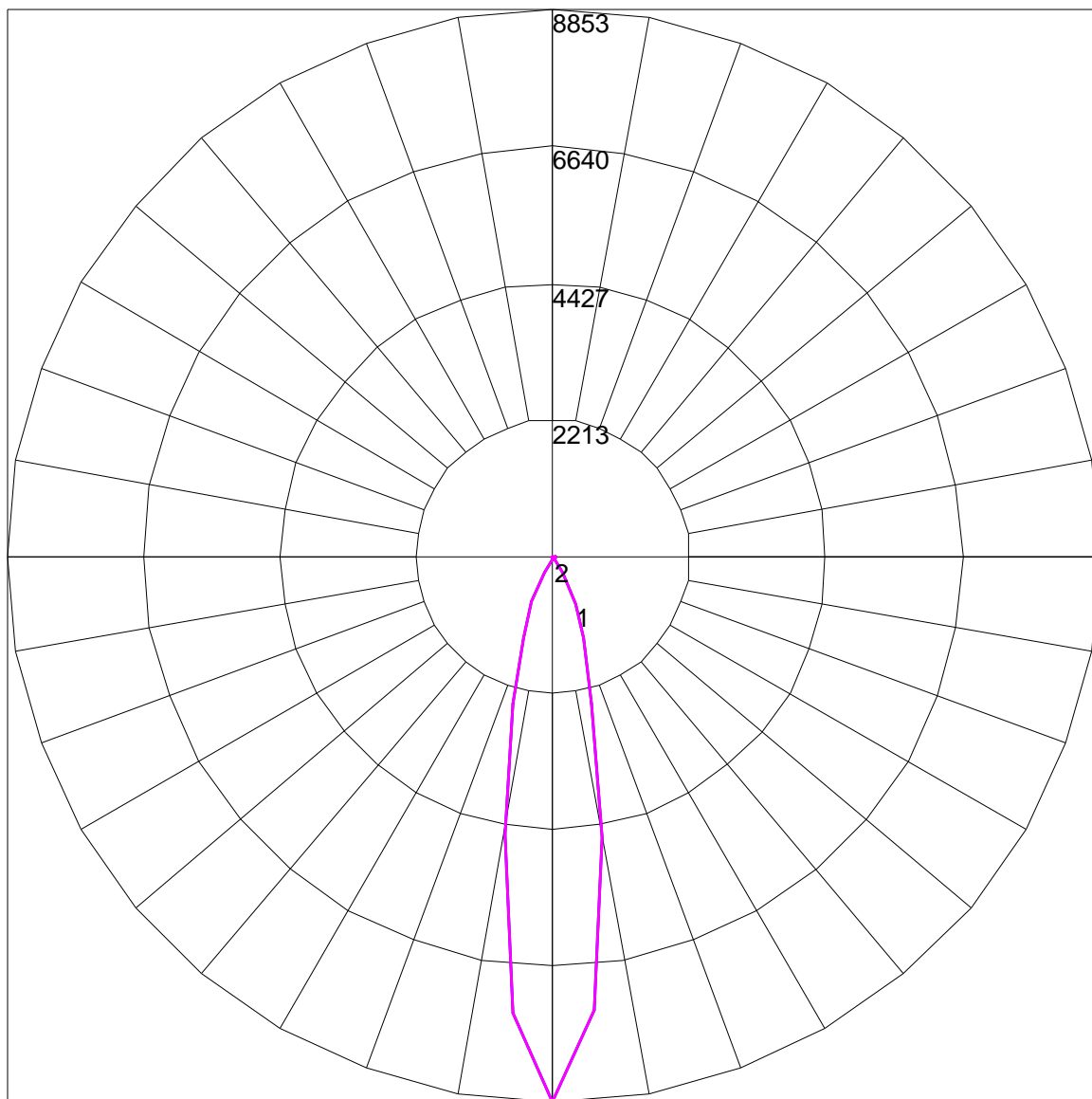
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	98	98	97	95
2	110	106	102	99	108	104	101	98	101	98	96	98	96	94	95	93	92	90
3	106	100	96	93	104	99	95	92	96	93	91	94	91	89	92	90	88	86
4	102	96	91	88	100	94	90	87	92	89	86	91	88	85	89	86	84	83
5	98	91	87	83	97	91	86	83	89	85	82	87	84	82	86	83	81	80
6	95	88	83	80	94	87	83	79	86	82	79	84	81	78	83	80	78	77
7	92	84	80	76	91	84	79	76	83	79	76	82	78	75	81	77	75	74
8	89	81	77	73	88	81	76	73	80	76	73	79	75	73	78	75	72	71
9	86	79	74	71	85	78	74	71	77	73	71	77	73	70	76	73	70	69
10	84	76	72	69	83	76	71	68	75	71	68	74	71	68	74	70	68	67

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POLAR GRAPH



Maximum Candela = 8853.443 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)