

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00618_19 ~ C0611SQXT-30LXXK-XWEX-TCY-SOMW.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] SP-00618_19
[TESTLAB] VLS-245-981
[MANUFAC] Spectrum Lighting
[ISSUE DATE] 6/29/2017
[UPDATE] 3/26/2018
[LUMCAT] C0611SQXT-30L-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

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2654
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	81
Total Luminaire Watts	32.6
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	23202	22579	22499
55	9360	12289	10604
65	8132	9294	8957
75	7929	7957	8804
85	5763	4699	5749

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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	3159.115	3159.115	3159.115	3159.115	3159.115	3159.115	3159.115	3159.115	3159.115	3159.115
5	3074.172	3066.199	3054.361	3077.587	3086.745	3129.331	3132.393	3123.915	3136.276	3132.340
10	2909.883	2890.083	2868.970	2904.795	2911.258	3009.237	3010.393	3000.808	3014.779	3015.404
15	2626.597	2617.987	2585.926	2609.766	2613.274	2774.461	2793.891	2774.020	2787.463	2797.330
20	2236.725	2264.896	2226.435	2237.529	2214.890	2423.802	2460.667	2439.240	2450.948	2475.153
25	1619.851	1780.671	1812.484	1737.068	1615.277	2016.220	2062.292	2031.150	2016.817	2082.136
30	804.197	993.261	1267.805	1006.206	858.502	1441.364	1595.863	1422.425	1283.529	1490.028
35	406.152	433.807	667.333	443.832	401.762	726.539	1040.974	696.941	579.363	742.781
40	250.327	248.400	273.496	241.594	235.181	325.992	532.234	324.051	318.950	350.887
45	153.020	156.222	148.909	152.350	148.385	193.340	232.607	195.463	199.862	212.793
50	88.271	96.619	97.382	96.266	91.656	127.901	132.970	126.302	122.616	134.283
55	50.075	59.934	65.744	63.294	56.726	87.366	91.363	84.811	75.182	86.094
60	35.876	42.357	47.064	44.752	41.365	63.434	66.785	59.896	51.889	57.486
65	32.054	36.034	36.635	35.827	35.304	52.187	53.607	48.847	42.567	44.647
70	26.824	29.262	28.772	29.505	30.315	48.942	45.349	46.090	41.706	40.871
75	19.141	20.383	19.208	17.727	21.253	41.472	35.889	42.715	37.565	37.617
80	11.943	11.340	10.753	11.408	11.245	33.299	31.195	32.085	29.970	28.210
85	4.685	5.435	3.820	4.192	4.673	23.843	22.853	22.828	21.525	20.840
90	2.620	2.203	1.741	2.104	1.964	13.832	13.359	13.561	13.504	12.785
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	3159.115	3159.115	3159.115	3159.115	3159.115	3159.115	3159.115
5	3152.789	3143.616	3139.614	3106.932	3099.511	3093.970	3074.172
10	3047.708	3039.274	3037.132	2965.672	2955.583	2949.471	2909.883
15	2851.815	2833.811	2828.302	2711.741	2707.057	2685.343	2626.597
20	2554.589	2515.855	2497.262	2332.672	2365.138	2328.788	2236.725
25	2194.295	2103.137	2032.616	1808.388	1974.371	1828.490	1619.851
30	1788.090	1449.994	1184.576	1017.759	1458.276	997.669	804.197
35	1241.033	692.061	544.617	463.235	778.288	449.416	406.152
40	618.435	339.327	316.502	264.170	305.975	261.901	250.327
45	249.949	206.833	195.625	161.116	163.084	162.543	153.020

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50	143.369	129.149	116.989	95.491	100.130	99.169	88.271
55	92.590	80.167	68.272	56.305	63.736	60.466	50.075
60	62.964	53.257	41.492	36.119	43.373	40.049	35.876
65	45.986	42.483	35.231	29.058	32.188	33.798	32.054
70	39.534	39.412	35.157	24.922	25.296	27.777	26.824
75	35.117	35.180	32.644	18.558	17.928	21.072	19.141
80	28.651	28.633	27.316	10.316	10.513	12.435	11.943
85	23.050	23.246	18.407	5.018	4.340	6.003	4.685
90	15.422	15.298	16.329	2.114	2.120	0.704	2.620
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	1050.73	N.A.	39.60
0-30	1902.92	N.A.	71.70
0-40	2344.21	N.A.	88.30
0-60	2565.99	N.A.	96.70
0-80	2636.21	N.A.	99.30
0-90	2651.34	N.A.	99.90
10-90	2358.91	N.A.	88.90
20-40	1293.48	N.A.	48.70
20-50	1447.42	N.A.	54.50
40-70	262.36	N.A.	9.90
60-80	70.22	N.A.	2.60
70-80	29.64	N.A.	1.10
80-90	15.13	N.A.	0.60
90-110	2.22	N.A.	0.10
90-120	2.22	N.A.	0.10
90-130	2.22	N.A.	0.10
90-150	2.22	N.A.	0.10
90-180	2.22	N.A.	0.10
110-180	0.00	N.A.	0.00
0-180	2653.56	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	292.44
10-20	758.29
20-30	852.20
30-40	441.28
40-50	153.94
50-60	67.85
60-70	40.58
70-80	29.64
80-90	15.13
90-100	2.22
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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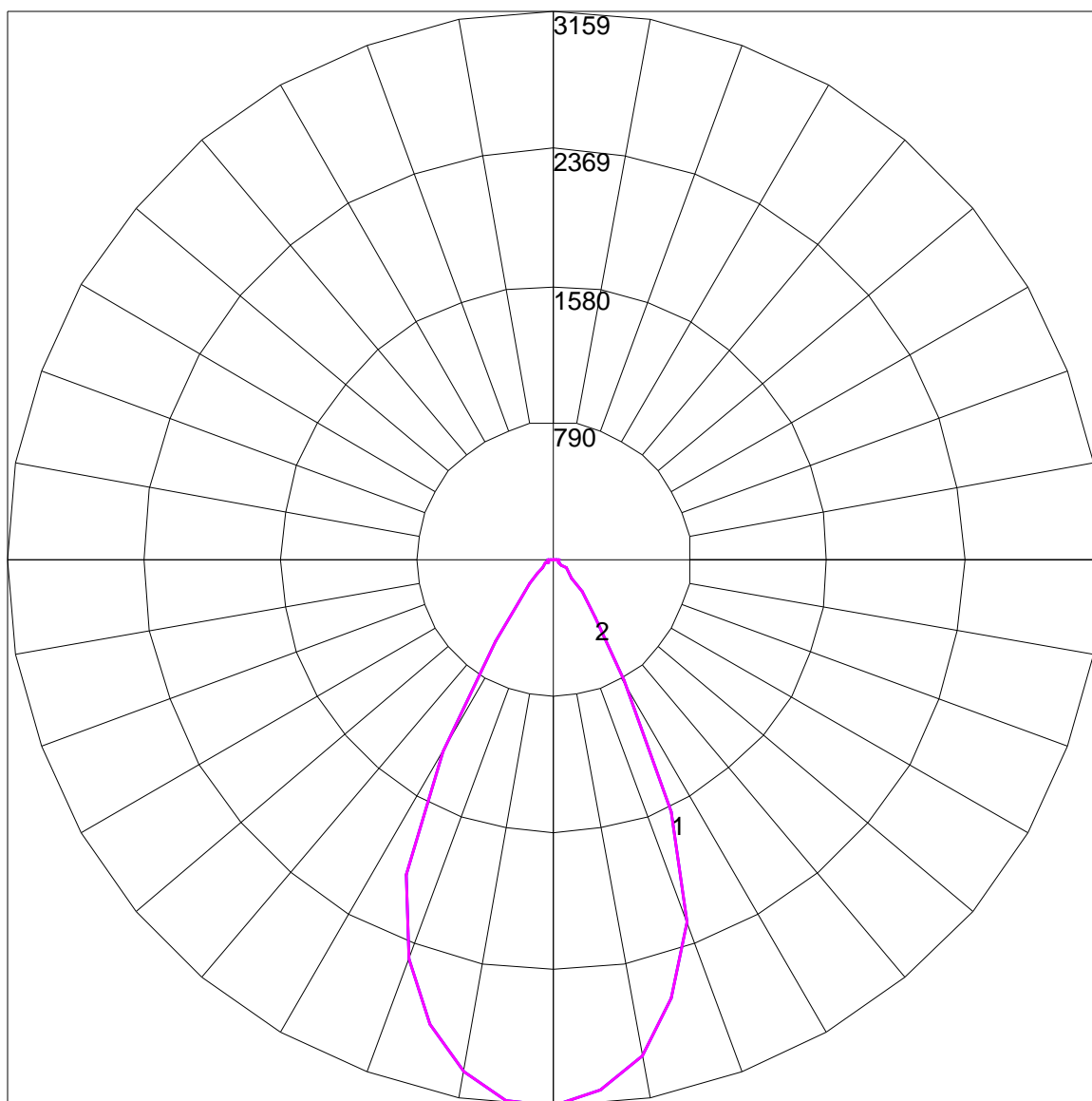
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	85	100	93	89	85	91	87	83	88	85	82	86	83	81	79
4	96	89	83	78	94	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	68	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 = 3159.115 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)