

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00618_18 ~ C0611SQXT-30LXXK-XWEX-TCY-NLMW.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] SP-00618_18
[TESTLAB] VLS-245-981
[MANUFAC] Spectrum Lighting
[ISSUE DATE] 6/29/2017
[UPDATE] 3/26/2018
[LUMCAT] C0611SQXT-30L-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

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2854
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	88
Total Luminaire Watts	32.6
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

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Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	24640	24637	24550
55	10466	13175	10148
65	10014	10548	9381
75	10496	10895	11563
85	7375	9319	11152

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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	3501.977	3501.977	3501.977	3501.977	3501.977	3501.977	3501.977	3501.977	3501.977	3501.977
5	3443.531	3428.906	3439.336	3450.528	3444.436	3456.750	3446.741	3450.075	3450.234	3449.866
10	3282.284	3264.162	3277.539	3311.339	3307.083	3318.105	3292.175	3297.660	3292.913	3294.183
15	2997.553	2982.902	3023.781	3061.229	3046.806	3078.707	3050.027	3041.247	3034.530	3051.001
20	2580.753	2573.987	2639.785	2685.845	2647.222	2677.464	2661.276	2631.008	2617.953	2671.983
25	2028.497	2137.982	2232.806	2177.703	2017.193	2196.911	2246.224	2178.836	2042.840	2156.705
30	1046.307	1328.785	1747.318	1275.467	1010.126	1312.323	1776.991	1341.063	1022.664	1285.552
35	443.150	480.412	919.899	560.828	475.124	518.822	979.552	516.994	465.172	523.722
40	265.953	255.682	296.034	287.902	275.616	289.523	319.096	287.869	280.186	292.140
45	162.503	159.002	162.484	174.906	161.907	177.577	176.631	175.873	166.044	177.697
50	95.176	99.603	103.913	105.161	93.732	106.650	108.899	105.966	93.767	106.118
55	55.989	63.904	70.483	64.239	54.286	66.943	70.809	64.536	55.286	66.385
60	41.807	46.012	50.583	44.410	38.514	47.920	51.639	47.562	41.937	47.986
65	39.470	40.471	41.575	39.488	36.978	43.056	45.405	43.216	39.940	43.118
70	34.983	35.956	34.357	36.755	33.049	42.333	40.982	42.266	39.112	42.734
75	25.336	26.912	26.300	30.489	27.912	39.582	36.647	36.668	34.053	38.251
80	14.519	14.625	15.525	18.687	19.203	32.192	28.966	30.740	28.017	29.879
85	5.995	6.005	7.575	10.057	9.065	24.582	23.826	23.463	20.848	21.618
90	0.000	0.000	2.160	3.477	2.672	18.227	16.512	16.176	15.656	15.510
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	3501.977	3501.977	3501.977	3501.977	3501.977	3501.977	3501.977
5	3442.444	3433.055	3450.249	3454.740	3459.407	3445.394	3443.531
10	3288.882	3265.750	3294.831	3299.505	3315.983	3298.537	3282.284
15	3037.558	2967.632	3001.654	3005.245	3055.042	3032.908	2997.553
20	2660.774	2585.303	2609.621	2596.163	2656.625	2626.717	2580.753
25	2251.023	2143.390	2001.443	2127.604	2244.087	2139.809	2028.497
30	1746.829	1294.380	1083.832	1322.488	1771.870	1330.685	1046.307
35	995.289	550.809	486.563	520.536	1088.815	526.729	443.150
40	375.537	273.502	279.492	279.775	443.473	286.134	265.953
45	178.201	167.942	168.693	173.234	188.985	180.791	162.503

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50	112.907	104.199	98.444	104.861	120.351	111.234	95.176
55	75.971	65.174	57.027	64.432	79.284	67.280	55.989
60	55.649	49.190	43.789	45.498	55.430	48.388	41.807
65	46.984	46.649	42.111	39.919	43.249	42.758	39.470
70	41.270	42.304	38.099	33.147	35.586	36.659	34.983
75	33.110	34.488	33.051	23.641	24.731	26.800	25.336
80	25.423	26.590	23.066	12.710	14.389	14.542	14.519
85	21.197	18.745	20.173	5.303	5.523	6.401	5.995
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

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Zone	Lumens	%Lamp	%Fixt
0-20	1165.89	N.A.	40.80
0-30	2110.08	N.A.	73.90
0-40	2557.04	N.A.	89.60
0-60	2763.01	N.A.	96.80
0-80	2837.33	N.A.	99.40
0-90	2852.66	N.A.	99.90
10-90	2528.46	N.A.	88.60
20-40	1391.15	N.A.	48.70
20-50	1534.27	N.A.	53.80
40-70	248.03	N.A.	8.70
60-80	74.32	N.A.	2.60
70-80	32.26	N.A.	1.10
80-90	15.33	N.A.	0.50
90-110	1.55	N.A.	0.10
90-120	1.55	N.A.	0.10
90-130	1.55	N.A.	0.10
90-150	1.55	N.A.	0.10
90-180	1.55	N.A.	0.10
110-180	0.00	N.A.	0.00
0-180	2854.2	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	324.19
10-20	841.70
20-30	944.19
30-40	446.95
40-50	143.12
50-60	62.85
60-70	42.06
70-80	32.26
80-90	15.33
90-100	1.55
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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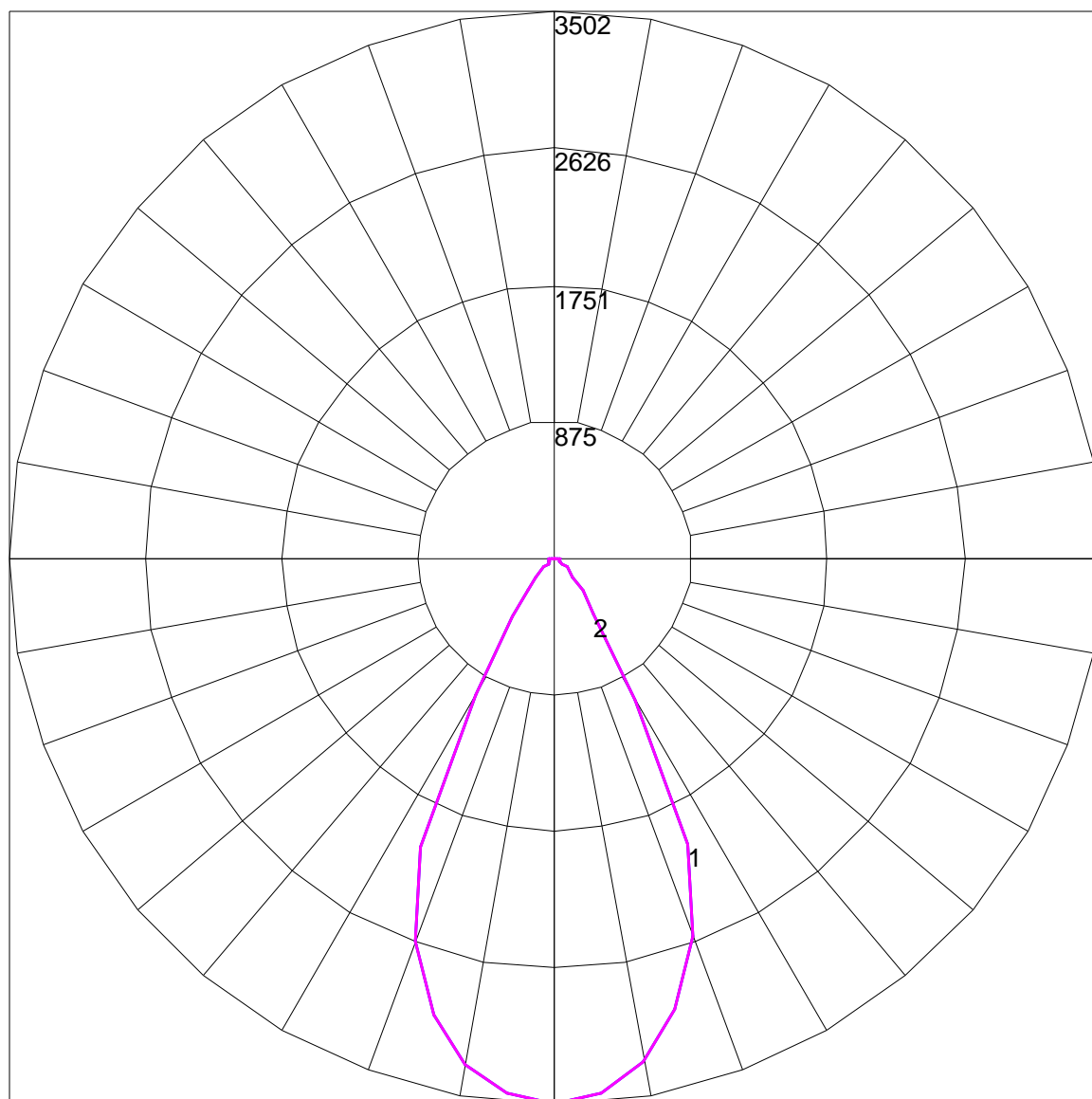
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	95	105	101	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	84	78	73	90	83	77	73	81	76	72	79	75	72	78	74	71	69
6	87	79	73	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 = 3501.977 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)