

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00618\_1 ~ C0611SQXT-30LXXK-MDEX-TCY-GLMW.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] SP-00618\_1  
[TESTLAB] VLS-245-981  
[MANUFAC] Spectrum Lighting  
[ISSUEDATE] 6/29/2017  
[UPDATE] 3/26/2018  
[LUMCAT] C0611SQXT-30L-xxK-MD-EX-TCY-GL-xx-MW  
[LUMINAIRE] Nom. 6" Square, LED Cylinder Downlight  
[OTHER] Upper, Internal Reflector, Medium Beam  
[OTHER] Lower Trim, Semi-Diffuse Clear Anodized Alum.  
[OTHER] Clear Glass Lens, Flush with Lower Trim  
[OTHER] 38 Degree Beam Angle  
[LAMPCAT] N/A, 19mm LES  
[LAMPCAT] N/A, 83 CRI  
[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	2607
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	80
Total Luminaire Watts	32.6
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.62
Spacing Criterion (90-270)	0.62
Spacing Criterion (Diagonal)	0.68
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\_1 ~ C0611SQXT-30LXXK-MDEX-TCY-GLMW.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	11508	12218	11224
55	8120	8650	7625
65	7798	8468	6980
75	8504	8633	8383
85	5586	8224	9292

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : SP-00618\_1 ~ C0611SQXT-30LXXK-MDEX-TCY-GLMW.IES**

**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	5222.640	5222.640	5222.640	5222.640	5222.640	5222.640	5222.640	5222.640	5222.640	5222.640
5	4951.777	4943.641	4947.248	5015.704	4991.118	4970.987	5012.656	4965.030	4964.195	4943.245
10	4257.463	4255.237	4267.529	4310.071	4315.375	4301.831	4326.272	4289.320	4283.080	4257.469
15	3331.021	3342.874	3366.459	3368.900	3384.201	3398.408	3398.560	3380.421	3364.401	3348.041
20	2430.616	2459.766	2502.216	2457.810	2439.323	2477.088	2508.125	2478.657	2422.475	2437.113
25	1585.925	1726.317	1798.192	1637.739	1508.258	1642.071	1787.211	1702.057	1489.798	1612.570
30	673.712	1010.825	1236.883	772.448	631.277	822.531	1258.659	907.991	628.092	732.473
35	223.766	342.652	665.095	201.773	184.425	272.349	669.889	312.595	184.592	244.956
40	111.152	119.153	209.960	114.158	108.625	116.700	165.085	116.556	105.894	116.237
45	75.897	78.667	80.578	77.641	74.026	78.556	79.918	76.055	71.147	80.043
50	56.152	57.166	58.931	60.197	51.776	59.420	60.776	54.088	52.607	59.354
55	43.437	45.431	46.274	44.028	40.793	46.115	48.728	45.105	40.493	45.287
60	34.124	37.198	38.022	36.386	33.112	38.257	41.216	40.035	33.986	37.278
65	30.737	32.155	33.380	31.004	27.513	36.342	35.461	37.140	32.645	33.355
70	26.717	26.913	29.064	29.338	24.257	34.817	33.969	33.750	33.873	36.223
75	20.528	20.031	20.840	23.617	20.236	33.768	30.462	29.713	25.979	29.112
80	11.711	12.516	13.002	14.709	14.936	28.591	26.922	25.478	22.564	23.727
85	4.541	5.666	6.685	7.745	7.553	20.206	18.741	18.639	18.924	16.425
90	1.467	1.740	1.473	2.720	2.623	16.385	15.953	15.137	3.011	0.000
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	5222.640	5222.640	5222.640	5222.640	5222.640	5222.640	5222.640
5	4938.405	5012.386	4995.039	4981.397	5019.116	4958.313	4951.777
10	4257.294	4315.860	4313.861	4311.392	4328.871	4280.831	4257.463
15	3360.038	3363.123	3369.346	3388.362	3395.604	3373.175	3331.021
20	2497.400	2461.721	2439.814	2485.738	2493.460	2483.091	2430.616
25	1793.240	1724.564	1569.047	1727.174	1780.155	1709.131	1585.925
30	1251.908	1005.503	625.897	935.715	1283.919	901.794	673.712
35	645.896	262.307	215.979	332.030	736.441	306.523	223.766
40	213.923	119.354	113.749	129.192	203.227	126.379	111.152
45	87.112	81.760	80.345	86.450	89.120	85.849	75.897

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00618\_1 ~ C0611SQXT-30LXXK-MDEX-TCY-GLMW.IES****CANDELA TABULATION - (Cont.)**

50	63.431	63.096	57.666	63.811	64.367	64.878	56.152
55	49.515	47.815	45.588	48.884	53.681	50.573	43.437
60	41.468	40.224	36.252	40.154	43.806	39.246	34.124
65	40.785	34.604	31.863	34.675	34.602	34.706	30.737
70	32.176	35.623	29.744	29.680	25.197	28.604	26.717
75	28.810	28.035	24.900	19.369	17.865	22.026	20.528
80	22.335	21.948	20.478	9.791	12.800	12.215	11.711
85	16.594	16.870	13.314	3.604	4.369	4.233	4.541
90	0.000	0.000	0.000	0.000	0.000	0.000	1.467
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\_1 ~ C0611SQXT-30LXXK-MDEX-TCY-GLMW.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1389.13	N.A.	53.30
0-30	2151.55	N.A.	82.50
0-40	2423.37	N.A.	92.90
0-60	2534.23	N.A.	97.20
0-80	2594.03	N.A.	99.50
0-90	2606.33	N.A.	100.00
10-90	2152.88	N.A.	82.60
20-40	1034.24	N.A.	39.70
20-50	1102.6	N.A.	42.30
40-70	144.67	N.A.	5.50
60-80	59.80	N.A.	2.30
70-80	25.98	N.A.	1.00
80-90	12.30	N.A.	0.50
90-110	1.04	N.A.	0.00
90-120	1.04	N.A.	0.00
90-130	1.04	N.A.	0.00
90-150	1.04	N.A.	0.00
90-180	1.04	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	2607.36	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	453.45
10-20	935.68
20-30	762.42
30-40	271.82
40-50	68.36
50-60	42.50
60-70	33.81
70-80	25.98
80-90	12.30
90-100	1.04
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

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : SP-00618\_1 ~ C0611SQXT-30LXXK-MDEX-TCY-GLMW.IES

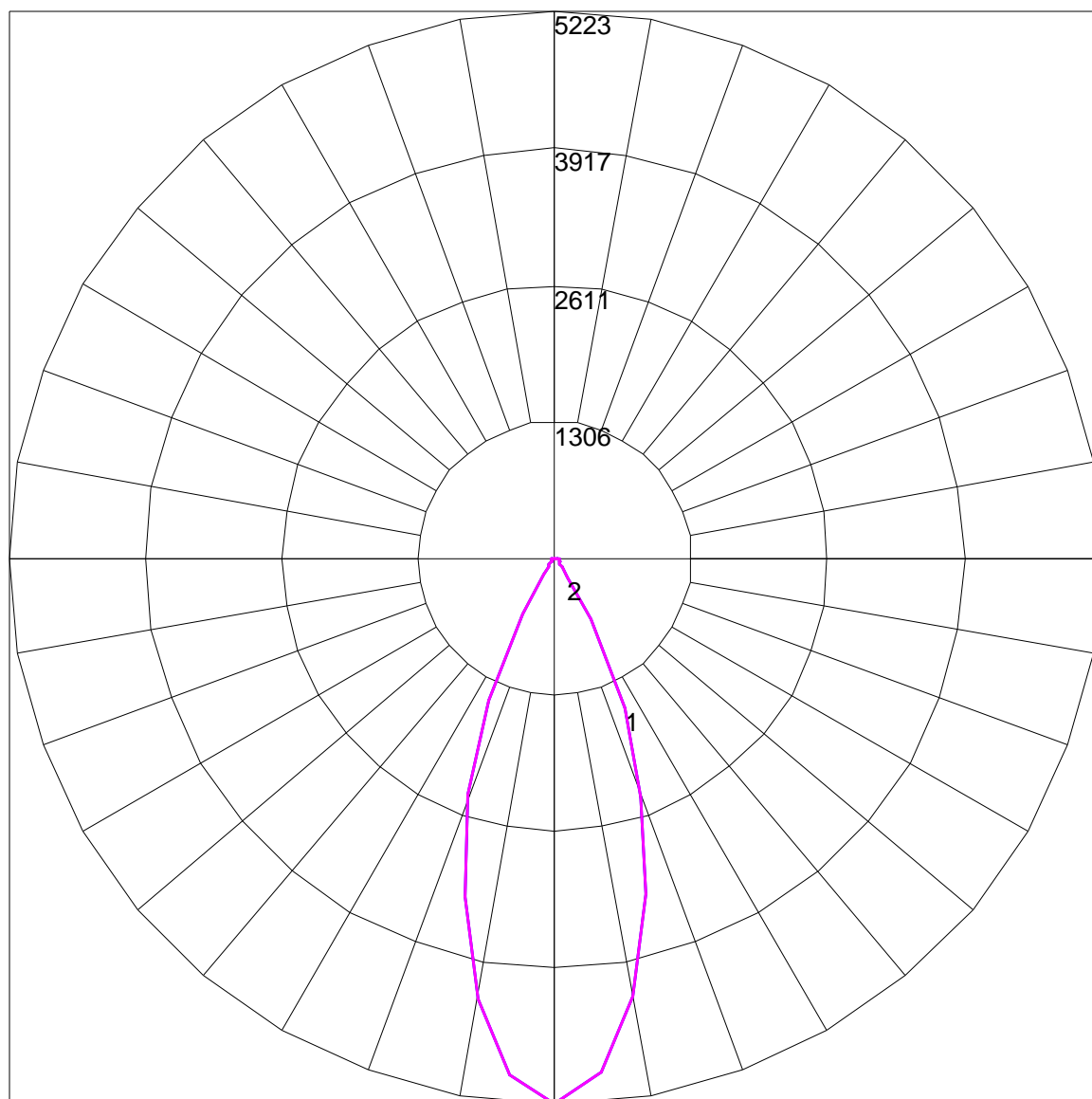
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	111	108	106	111	109	107	105	105	103	101	101	100	98	98	96	95	94
2	108	104	100	97	106	102	99	96	99	96	94	96	94	92	93	91	90	88
3	104	98	93	89	102	96	92	88	94	90	87	91	88	86	89	87	84	83
4	99	92	87	83	97	91	86	83	89	85	82	87	83	81	85	82	80	78
5	95	87	82	78	93	86	81	78	84	80	77	83	79	76	81	78	76	74
6	91	83	77	73	89	82	77	73	81	76	73	79	75	72	78	74	72	70
7	87	79	73	69	86	78	73	69	77	72	69	76	72	69	75	71	68	67
8	84	75	70	66	82	74	69	66	73	69	66	72	68	65	72	68	65	64
9	80	72	66	63	79	71	66	63	70	66	62	69	65	62	69	65	62	61
10	77	69	63	60	76	68	63	60	67	63	60	67	62	60	66	62	59	58

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : SP-00618\_1 ~ C0611SQXT-30LXXK-MDEX-TCY-GLMW.IES

POLAR GRAPH



Maximum Candela = 5222.64 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)