

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00611_5 ~ C08XXSQXT-20LXXK-NDEX-TSG-GL.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] SP-00611_5_M-20L
[TESTLAB] VLS-245-981
[MANUFAC] Spectrum Lighting
[ISSUE DATE] 6/29/2017
[UPDATE] 2/2/2018
[LUMCAT] C08xxSQXT-20L-xxK-ND-EX-TSG-GL
[LUMINAIRE] Nom. 8" Square LED Cylinder Downlight
[OTHER] Data applicable to: 12"H and 16"H Square Cylinders
[OTHER] Upper, Internal Reflector, Narrow Beam
[OTHER] Lower Trim, Semi-diffuse Clear Anodized
[OTHER] Clear Glass Lens, Regressed in Lower Trim
[OTHER] 22.1 Degree Beam Angle
[LAMPCAT] N/A, 19mm LES
[LAMP] N/A, 83 CRI
[OTHER] Total Luminaire Watts is approximate
[OTHER] LEDXT lumen output is the same for all available CCT's
[OTHER] Former Cat. No: SPC08SQ-LEDXT-series
[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	1826
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	84
Total Luminaire Watts	21.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.40
Spacing Criterion (90-270)	0.40
Spacing Criterion (Diagonal)	0.42
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.50 ft
Luminous Width (90-270)	0.50 ft
Luminous Height	0.00 ft

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Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	505	312	708
55	143	133	166
65	197	201	126
75	144	238	120
85	588	373	366

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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	7135.650	7135.650	7135.650	7135.650	7135.650	7135.650	7135.650	7135.650	7135.650	7135.650
5	6467.496	6772.372	6747.377	6702.909	6404.052	6547.598	6454.409	6045.022	5845.967	5461.032
10	4294.291	4760.035	4726.564	4719.553	4278.881	4392.723	4290.712	3805.550	3618.612	3217.960
15	2344.999	2691.477	2668.434	2666.927	2355.235	2419.253	2384.554	2084.548	1986.002	1792.209
20	1326.586	1552.994	1545.793	1510.616	1371.048	1427.005	1424.531	1249.488	1209.947	1208.290
25	925.958	1038.680	1032.641	1023.807	978.062	1002.477	1003.938	904.782	939.668	942.571
30	712.952	630.322	602.694	768.186	766.060	664.691	659.232	689.093	755.713	545.591
35	401.433	182.454	188.744	481.806	461.129	240.185	215.831	371.552	438.840	148.753
40	103.737	16.233	14.503	133.091	133.169	27.193	25.099	92.103	118.504	15.674
45	8.308	5.818	5.132	12.483	11.641	10.473	9.664	8.567	12.473	7.442
50	3.245	3.226	2.740	4.682	4.338	6.210	4.993	4.898	4.160	4.894
55	1.909	2.005	1.777	2.733	2.210	3.900	2.454	2.721	3.377	3.730
60	1.667	1.909	1.397	1.406	1.627	3.133	2.826	1.995	2.273	2.590
65	1.932	1.074	1.973	1.832	1.237	2.885	2.609	2.423	3.533	2.587
70	1.040	0.957	1.235	0.732	0.727	3.342	2.520	2.179	2.235	2.683
75	0.867	1.053	1.433	1.053	0.725	3.475	3.078	3.990	3.197	3.097
80	0.972	1.227	0.893	1.577	1.157	3.643	3.916	3.571	4.168	4.552
85	1.191	0.785	0.755	0.865	0.741	5.974	4.706	5.148	5.674	5.759
90	0.489	0.305	1.121	0.367	1.068	6.811	2.669	5.490	2.607	8.768
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	7135.650	7135.650	7135.650	7135.650	7135.650	7135.650	7135.650
5	5424.587	5303.321	5579.631	5749.678	5857.158	6272.016	6467.496
10	3216.873	3096.990	3394.382	3476.301	3560.651	4048.895	4294.291
15	1790.656	1710.474	1856.929	1884.238	1917.127	2193.976	2344.999
20	1212.696	1125.594	1116.619	1175.520	1190.802	1259.018	1326.586
25	943.617	898.295	817.770	919.499	907.887	902.466	925.958
30	514.794	659.735	670.768	514.039	498.237	726.656	712.952
35	126.302	282.587	390.171	129.800	121.524	370.519	401.433
40	15.981	42.068	85.451	19.883	19.344	79.141	103.737
45	6.385	6.585	8.944	8.865	7.380	8.386	8.308
50	3.195	4.971	4.932	4.568	3.702	3.674	3.245
55	2.804	4.133	2.709	2.607	2.621	2.182	1.909
60	2.497	3.448	2.737	1.631	1.747	1.455	1.667

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65	2.324	2.709	2.385	1.528	1.529	1.549	1.932
70	3.023	3.884	2.099	1.145	1.548	1.499	1.040
75	3.426	3.341	3.125	1.469	1.331	1.507	0.867
80	4.473	5.255	4.696	1.087	0.771	0.995	0.972
85	7.195	7.136	6.324	0.975	1.363	0.889	1.191
90	2.659	9.021	7.053	0.598	1.518	0.398	0.489
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	1165.86	N.A.	63.90
0-30	1604.6	N.A.	87.90
0-40	1799.29	N.A.	98.50
0-60	1817.05	N.A.	99.50
0-80	1821.54	N.A.	99.80
0-90	1825.03	N.A.	100.00
10-90	1307.85	N.A.	71.60
20-40	633.43	N.A.	34.70
20-50	648.54	N.A.	35.50
40-70	19.83	N.A.	1.10
60-80	4.49	N.A.	0.20
70-80	2.42	N.A.	0.10
80-90	3.49	N.A.	0.20
90-110	0.87	N.A.	0.00
90-120	0.87	N.A.	0.00
90-130	0.87	N.A.	0.00
90-150	0.87	N.A.	0.00
90-180	0.87	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	1825.9	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	517.18
10-20	648.68
20-30	438.74
30-40	194.69
40-50	15.11
50-60	2.66
60-70	2.07
70-80	2.42
80-90	3.49
90-100	0.87
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

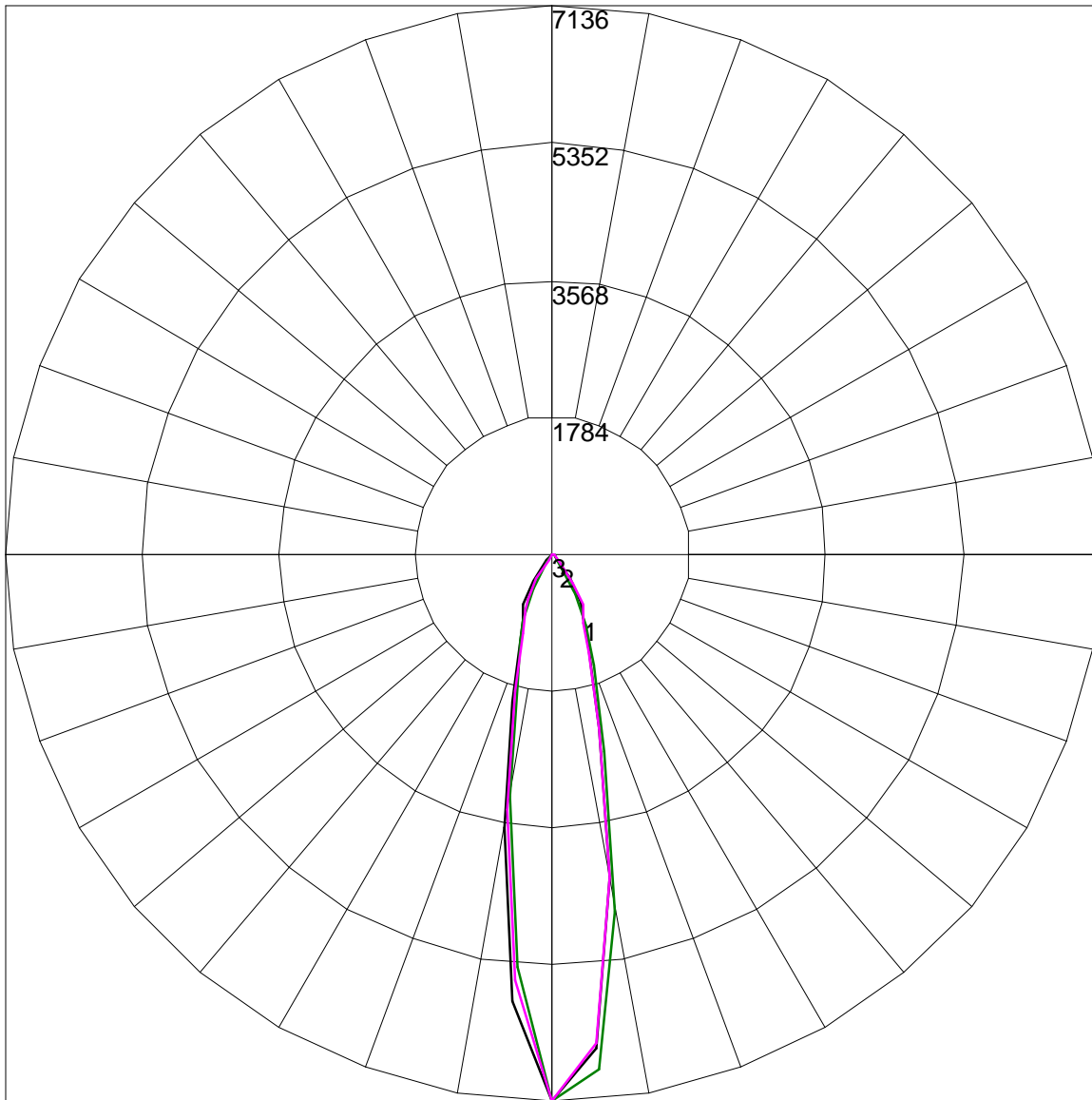
Effective Floor Cavity Reflectance 0.20

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	105	103	102	101	100	99	98	97	95
2	110	106	103	100	108	104	101	99	101	99	97	98	96	95	96	94	93	91
3	106	101	97	94	104	99	96	93	97	94	91	95	92	90	92	90	89	87
4	102	96	92	88	101	95	91	88	93	90	87	91	88	86	89	87	85	84
5	98	92	87	84	97	91	87	83	89	86	83	88	85	82	86	84	81	80
6	95	88	83	80	94	87	83	80	86	82	79	85	81	79	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	76	73	88	81	76	73	80	76	73	79	75	73	78	75	72	71
9	86	78	74	70	85	78	73	70	77	73	70	76	73	70	75	72	70	69
10	83	75	71	68	82	75	71	68	74	70	68	74	70	67	73	70	67	66

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POLAR GRAPH



Maximum Candela = 7135.65 Located At Horizontal Angle = 0, Vertical Angle = 0

1 - Vertical Plane Through Horizontal Angles (0 - 180)

2 - Vertical Plane Through Horizontal Angles (45 - 225)

3 - Vertical Plane Through Horizontal Angles (90 - 270)