

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00611_7 ~ C08XXSQXT-20LXXK-NDEX-TSG-SO.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] SP-00611_7_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-SO
[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] Solite Lens, Regressed in Lower Trim
[OTHER] 25.4 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	1810
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	83
Total Luminaire Watts	21.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.40
Spacing Criterion (90-270)	0.48
Spacing Criterion (Diagonal)	0.48
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	2662	1080	3402
55	348	289	259
65	142	227	198
75	142	180	155
85	374	416	473

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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	5801.637	5801.637	5801.637	5801.637	5801.637	5801.637	5801.637	5801.637	5801.637	5801.637
5	4895.922	5076.130	5146.229	5351.715	5421.292	5431.138	5454.317	5347.411	5374.905	5221.514
10	3355.996	3577.682	3658.450	3950.046	4017.038	4058.359	4081.579	3909.552	3957.033	3737.134
15	2059.489	2227.569	2282.702	2508.657	2539.263	2577.702	2589.676	2444.340	2489.242	2322.131
20	1291.867	1405.074	1438.292	1547.317	1551.313	1579.922	1584.105	1500.213	1527.997	1461.120
25	891.423	936.942	942.392	1031.542	1021.587	1024.242	1017.616	998.565	1028.984	1009.972
30	611.600	533.459	514.592	686.166	698.522	614.519	584.770	663.433	740.370	649.177
35	339.324	214.543	192.223	358.885	411.681	269.813	238.765	357.271	475.734	304.733
40	137.911	65.077	55.290	134.911	181.490	75.668	61.956	134.391	232.686	99.275
45	43.759	19.485	17.760	39.241	55.924	15.865	14.089	34.080	87.118	31.330
50	12.157	7.752	7.612	11.949	12.919	6.396	6.513	9.224	27.413	12.635
55	4.641	3.820	3.848	4.430	3.451	4.318	3.137	4.569	8.090	6.258
60	2.683	2.365	1.853	2.868	1.904	2.795	2.435	3.122	4.956	3.586
65	1.397	2.215	2.231	0.877	1.945	2.147	2.444	3.121	2.977	3.511
70	1.250	1.551	1.335	1.241	0.699	2.715	2.507	2.659	2.442	2.693
75	0.857	1.026	1.083	1.091	0.932	2.857	2.523	2.273	4.048	4.004
80	1.239	0.502	1.024	0.955	0.712	3.486	4.020	3.570	4.017	3.648
85	0.758	0.959	0.843	0.825	0.958	6.062	4.663	5.611	6.002	5.909
90	0.830	0.217	0.687	0.365	0.917	6.993	2.466	6.489	2.674	8.834
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	5801.637	5801.637	5801.637	5801.637	5801.637	5801.637	5801.637
5	5172.885	4954.614	4891.415	4801.438	4781.672	4923.830	4895.922
10	3683.516	3408.091	3343.959	3251.387	3222.824	3388.121	3355.996
15	2289.532	2084.269	2040.843	1983.575	1967.232	2087.461	2059.489
20	1443.958	1309.933	1283.372	1266.016	1263.196	1321.222	1291.867
25	993.626	912.297	896.500	871.174	859.876	918.771	891.423
30	620.401	628.368	631.983	512.485	491.082	623.932	611.600
35	276.086	348.749	376.355	212.700	193.610	339.377	339.324
40	87.694	139.912	176.778	62.795	53.435	133.155	137.911
45	27.411	44.143	63.541	19.572	15.124	36.989	43.759
50	10.255	13.770	17.966	7.560	6.154	10.349	12.157
55	5.826	6.760	7.768	3.476	3.173	4.786	4.641
60	3.882	4.377	3.932	1.728	1.791	2.305	2.683

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65	3.927	4.145	3.945	1.793	1.396	1.947	1.397
70	3.527	2.703	2.769	1.323	0.874	1.093	1.250
75	3.001	3.303	2.756	0.911	1.339	1.637	0.857
80	5.137	4.576	4.200	0.856	0.584	1.342	1.239
85	5.666	6.286	6.073	1.179	1.405	0.917	0.758
90	2.785	7.074	6.870	0.349	1.213	0.263	0.830
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	1103.56	N.A.	61.00
0-30	1552.51	N.A.	85.80
0-40	1758.25	N.A.	97.20
0-60	1800.74	N.A.	99.50
0-80	1805.48	N.A.	99.80
0-90	1808.84	N.A.	100.00
10-90	1363.12	N.A.	75.30
20-40	654.69	N.A.	36.20
20-50	691.86	N.A.	38.20
40-70	44.94	N.A.	2.50
60-80	4.74	N.A.	0.30
70-80	2.29	N.A.	0.10
80-90	3.36	N.A.	0.20
90-110	0.84	N.A.	0.00
90-120	0.84	N.A.	0.00
90-130	0.84	N.A.	0.00
90-150	0.84	N.A.	0.00
90-180	0.84	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	1809.68	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	445.72
10-20	657.84
20-30	448.95
30-40	205.73
40-50	37.17
50-60	5.32
60-70	2.45
70-80	2.29
80-90	3.36
90-100	0.84
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

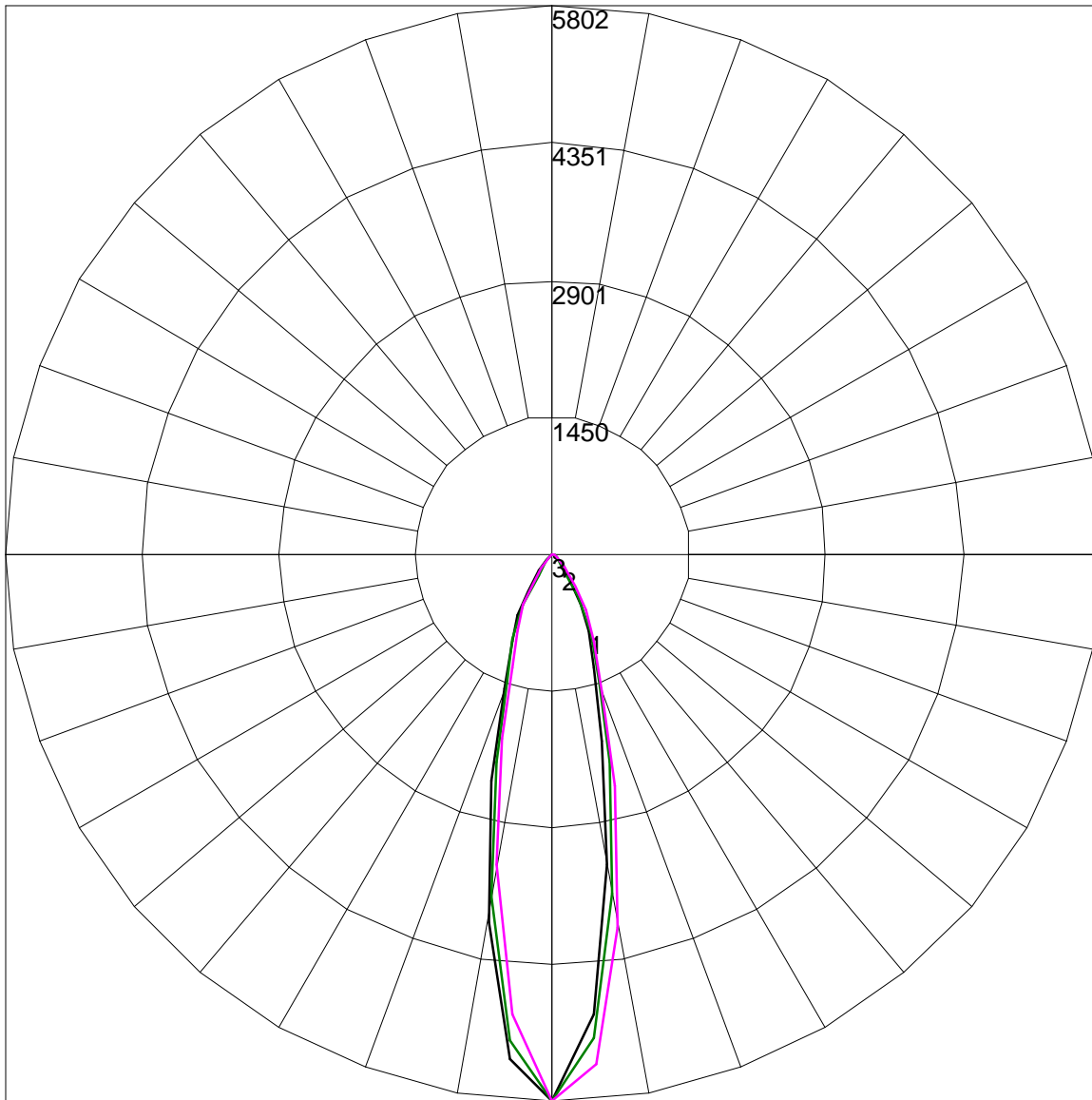
Effective Floor Cavity Reflectance 0.20

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	99	98	97	95
2	110	106	102	99	108	104	101	98	101	98	96	98	96	94	95	94	92	91
3	105	100	96	93	104	99	95	92	96	93	90	94	91	89	92	90	88	86
4	101	95	91	87	100	94	90	86	92	88	85	90	87	85	88	86	84	82
5	98	91	86	82	96	90	85	82	88	84	81	86	83	80	85	82	80	79
6	94	87	82	78	93	86	81	78	84	80	77	83	80	77	82	79	76	75
7	90	83	78	74	89	82	78	74	81	77	74	80	76	73	79	76	73	72
8	87	79	75	71	86	79	74	71	78	74	71	77	73	70	76	73	70	69
9	84	76	71	68	83	76	71	68	75	71	68	74	70	68	73	70	67	66
10	81	73	69	65	80	73	68	65	72	68	65	72	68	65	71	67	65	64

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POLAR GRAPH



Maximum Candela = 5801.637 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)