

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00611\_1 ~ C08XXSQXT-13LXXK-MDEX-TSG-GL.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] SP-00611\_1\_M-13L  
[TESTLAB] VLS-245-981  
[MANUFAC] Spectrum Lighting  
[ISSUE DATE] 6/29/2017  
[UPDATE] 2/2/2018  
[LUMCAT] C08xxSQXT-13L-xxK-MD-EX-TSG-MD-GL  
[LUMINAIRE] Nom. 8" Square LED Cylinder Downlight  
[OTHER] Data applicable to: 12"H and 16"H Square Cylinders  
[OTHER] Upper, Internal Reflector, Medium Beam  
[OTHER] Lower Trim, Semi-diffuse Clear Anodized  
[OTHER] Clear Glass Lens, Regressed in Lower Trim  
[OTHER] 39.9 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	1011
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	78
Total Luminaire Watts	13
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.66
Spacing Criterion (90-270)	0.68
Spacing Criterion (Diagonal)	0.72
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.50 ft
Luminous Width (90-270)	0.50 ft
Luminous Height	0.00 ft

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00611\_1 ~ C08XXSQXT-13LXXK-MDEX-TSG-GL.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1308	1194	1443
55	247	165	334
65	120	99	104
75	165	142	124
85	410	408	405

# IES INDOOR REPORT

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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	1864.522	1864.522	1864.522	1864.522	1864.522	1864.522	1864.522	1864.522	1864.522	1864.522
5	1807.474	1836.009	1836.276	1841.994	1818.225	1824.489	1814.897	1781.519	1764.436	1727.031
10	1588.138	1648.351	1652.077	1665.510	1617.534	1622.419	1605.772	1541.478	1513.018	1456.061
15	1268.280	1350.203	1360.226	1363.547	1307.101	1315.678	1295.506	1215.721	1185.662	1148.522
20	952.741	1056.068	1061.169	1040.433	991.791	1015.424	1003.196	910.870	897.536	905.341
25	710.212	780.351	782.503	776.992	746.280	762.548	748.002	676.753	699.630	693.182
30	515.034	485.034	479.805	564.182	544.963	479.402	475.368	483.812	512.868	401.736
35	281.185	169.847	181.977	359.055	305.100	185.108	161.978	259.984	283.485	134.728
40	86.243	44.964	42.618	102.302	84.328	42.670	41.375	78.510	87.240	35.479
45	21.495	20.440	19.630	27.361	23.721	20.279	19.863	19.632	23.150	17.638
50	9.790	6.909	7.082	10.435	11.257	8.369	7.835	9.848	9.969	7.734
55	3.294	2.274	2.202	4.038	4.447	3.703	3.203	4.288	4.122	3.447
60	1.321	1.314	1.220	1.338	1.687	2.731	1.672	2.183	2.435	2.041
65	1.182	1.062	0.976	1.143	1.024	2.241	1.621	2.436	2.295	1.729
70	0.835	0.861	0.912	1.030	0.835	2.202	2.122	2.489	2.542	2.468
75	0.992	0.858	0.856	0.958	0.744	2.762	2.580	2.321	2.499	2.606
80	0.791	0.677	0.843	0.822	0.829	2.818	3.431	3.092	3.748	3.306
85	0.830	0.571	0.827	0.980	0.821	3.861	3.872	4.454	4.087	4.455
90	0.618	0.607	0.796	0.501	0.861	4.144	3.251	4.343	4.063	4.872
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	1864.522	1864.522	1864.522	1864.522	1864.522	1864.522	1864.522
5	1726.091	1715.810	1743.334	1744.640	1751.499	1789.291	1807.474
10	1454.652	1437.379	1481.940	1480.784	1493.109	1556.031	1588.138
15	1145.393	1112.361	1150.845	1154.225	1169.640	1232.352	1268.280
20	900.546	842.491	846.895	885.312	894.304	921.289	952.741
25	687.896	646.754	625.889	691.347	687.946	695.693	710.212
30	391.882	452.110	472.364	405.802	404.158	521.691	515.034
35	125.108	215.643	255.975	127.735	131.465	288.388	281.185
40	34.231	48.714	64.115	35.649	36.419	83.385	86.243
45	16.081	17.475	19.146	17.885	17.268	21.211	21.495
50	6.094	8.622	8.944	7.002	6.769	10.332	9.790
55	2.839	3.378	3.572	2.995	2.717	4.282	3.294
60	2.010	2.084	2.252	1.866	1.528	1.756	1.321

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<b>65</b>	1.916	2.167	2.133	1.223	1.222	1.529	1.182
<b>70</b>	2.693	2.479	2.361	0.944	0.806	0.927	0.835
<b>75</b>	2.735	2.575	2.553	0.441	0.777	0.816	0.992
<b>80</b>	3.625	3.803	3.536	0.579	1.014	0.657	0.791
<b>85</b>	5.304	5.264	4.871	0.587	0.711	0.526	0.830
<b>90</b>	4.041	6.062	3.465	0.682	0.833	0.492	0.618
<b>95</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>100</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>105</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>110</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>115</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>120</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>125</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>130</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>135</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>140</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>145</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>150</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>155</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>160</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>165</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>170</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>175</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>180</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	507.94	N.A.	50.20
0-30	832.19	N.A.	82.30
0-40	979.99	N.A.	96.90
0-60	1004.32	N.A.	99.30
0-80	1007.88	N.A.	99.70
0-90	1010.56	N.A.	99.90
10-90	847.70	N.A.	83.80
20-40	472.05	N.A.	46.70
20-50	492.56	N.A.	48.70
40-70	26.00	N.A.	2.60
60-80	3.56	N.A.	0.40
70-80	1.89	N.A.	0.20
80-90	2.68	N.A.	0.30
90-110	0.68	N.A.	0.10
90-120	0.68	N.A.	0.10
90-130	0.68	N.A.	0.10
90-150	0.68	N.A.	0.10
90-180	0.68	N.A.	0.10
110-180	0.00	N.A.	0.00
0-180	1011.24	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	162.85
10-20	345.08
20-30	324.25
30-40	147.80
40-50	20.50
50-60	3.82
60-70	1.67
70-80	1.89
80-90	2.68
90-100	0.68
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

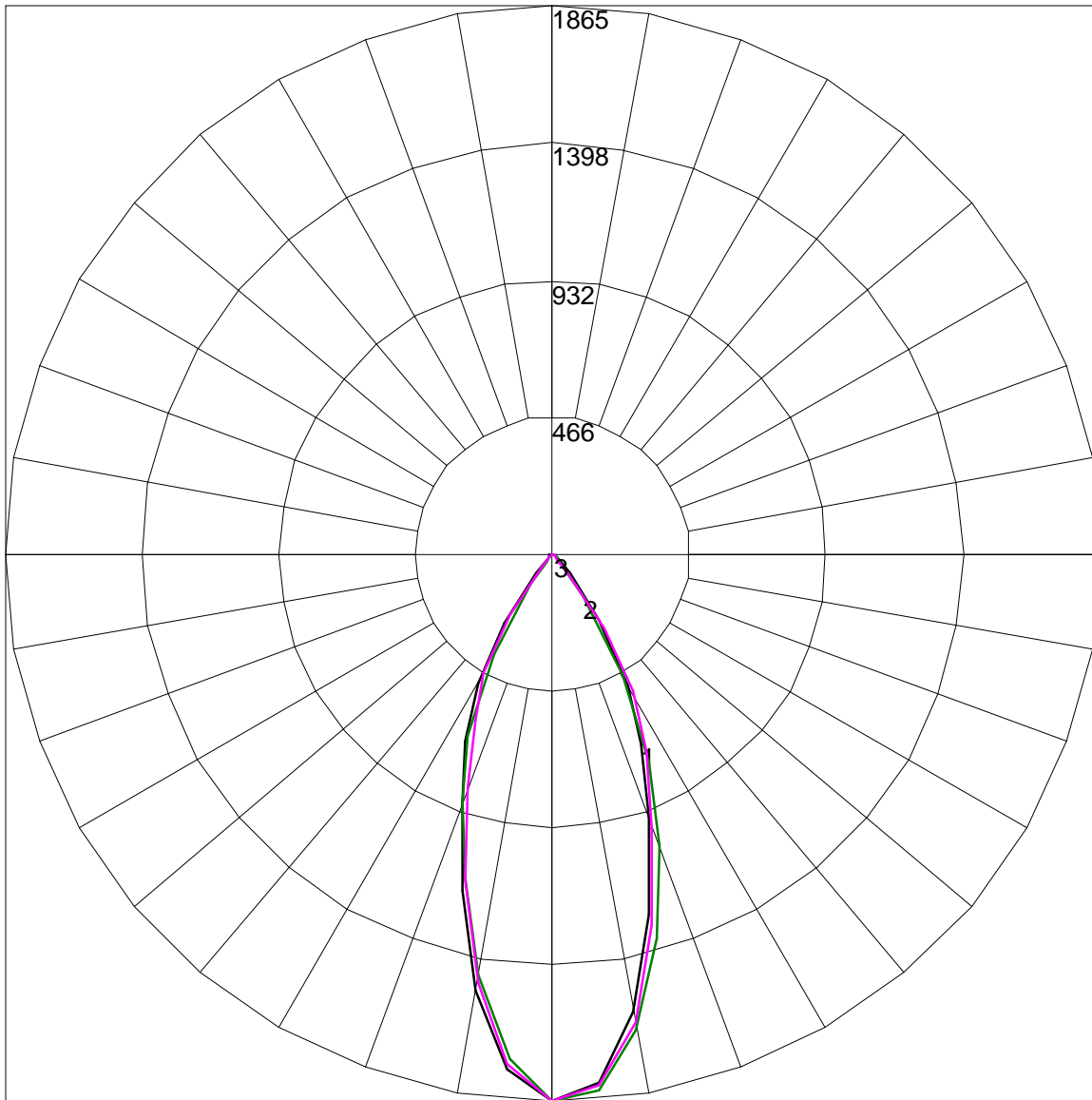
Effective Floor Cavity Reflectance 0.20

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

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## POLAR GRAPH



Maximum Candela = 1864.522 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)