

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00611\_6 ~ C08XXSQXT-13LXXK-NDEX-TSG-NL.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] SP-00611\_6\_M-13L  
[TESTLAB] VLS-245-981  
[MANUFAC] Spectrum Lighting  
[ISSUE DATE] 6/29/2017  
[UPDATE] 2/2/2018  
[LUMCAT] C08xxSQXT-13L-xxK-ND-EX-TSG-NL  
[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] No Lens  
[OTHER] 21.9 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	1279
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	98
Total Luminaire Watts	13
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.32
Spacing Criterion (90-270)	0.36
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

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00611\_6 ~ C08XXSQXT-13LXXK-NDEX-TSG-NL.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	260	318	152
55	73	101	76
65	64	78	64
75	94	112	119
85	329	415	231

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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	5097.059	5097.059	5097.059	5097.059	5097.059	5097.059	5097.059	5097.059	5097.059	5097.059
5	3846.361	4013.949	4055.675	4234.754	4274.764	4332.695	4588.279	4656.705	4826.178	4756.546
10	2256.173	2407.952	2413.648	2600.829	2595.114	2788.993	3095.594	3149.301	3384.630	3253.574
15	1241.671	1338.335	1338.647	1415.650	1385.788	1523.153	1699.046	1719.795	1880.296	1794.742
20	805.190	889.074	893.713	885.899	830.737	905.152	977.727	962.573	1028.181	1022.585
25	636.309	669.685	665.431	680.929	621.932	662.536	696.409	661.672	679.570	695.774
30	479.587	426.401	408.154	511.695	489.944	390.055	407.771	510.067	528.399	366.635
35	246.345	128.179	133.770	297.317	238.084	105.814	116.686	244.055	318.423	84.331
40	60.131	12.435	11.463	76.268	31.883	8.851	14.422	40.998	78.920	6.464
45	4.272	4.734	5.220	5.583	2.491	3.914	4.891	4.048	2.766	2.925
50	1.907	3.043	2.685	1.754	1.223	2.275	2.453	1.463	1.220	1.157
55	0.972	1.509	1.350	1.034	1.013	1.277	2.077	1.206	0.941	1.025
60	0.845	0.794	1.423	0.991	0.835	1.047	1.119	1.108	1.243	1.018
65	0.624	0.639	0.767	0.696	0.631	1.256	1.043	1.380	1.019	1.309
70	0.750	0.754	0.646	0.868	0.558	1.307	1.348	1.095	1.149	1.811
75	0.568	0.733	0.671	0.598	0.715	2.204	1.819	1.803	2.004	2.160
80	0.406	0.597	0.609	0.570	0.406	3.125	3.011	3.338	3.005	2.971
85	0.667	0.731	0.841	0.904	0.469	4.243	3.578	3.963	3.643	4.226
90	0.444	0.174	0.458	0.204	0.971	5.570	2.366	5.473	1.786	6.230
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	5097.059	5097.059	5097.059	5097.059	5097.059	5097.059	5097.059
5	4770.841	4625.768	4628.480	4157.839	3957.802	3958.918	3846.361
10	3258.343	3032.634	3010.508	2597.779	2381.272	2390.696	2256.173
15	1798.685	1634.049	1617.829	1425.820	1311.308	1308.725	1241.671
20	1017.646	927.188	919.755	907.520	861.663	810.785	805.190
25	689.093	645.851	670.735	694.655	669.598	628.126	636.309
30	338.674	464.427	561.545	419.486	392.380	494.050	479.587
35	69.893	192.829	353.371	119.151	106.938	269.632	246.345
40	4.947	17.783	85.412	11.052	9.057	63.676	60.131
45	2.121	1.787	6.021	3.839	3.153	3.179	4.272
50	0.912	0.951	1.204	1.562	1.327	1.807	1.907
55	0.767	0.732	0.825	0.804	1.006	1.057	0.972
60	0.890	0.757	1.219	0.640	0.776	0.885	0.845

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<b>65</b>	1.833	1.270	1.317	0.864	0.788	0.910	0.624
<b>70</b>	1.232	1.838	1.535	0.605	0.760	0.624	0.750
<b>75</b>	2.158	1.811	2.281	0.582	0.719	0.506	0.568
<b>80</b>	3.062	3.404	3.447	0.585	0.512	0.601	0.406
<b>85</b>	4.501	4.437	3.488	0.542	0.378	0.507	0.667
<b>90</b>	1.653	6.237	4.152	0.134	0.530	0.278	0.444
<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	825.85	N.A.	64.60
0-30	1133.03	N.A.	88.60
0-40	1264.14	N.A.	98.90
0-60	1273.22	N.A.	99.60
0-80	1275.71	N.A.	99.80
0-90	1278.11	N.A.	100.00
10-90	909.54	N.A.	71.10
20-40	438.29	N.A.	34.30
20-50	446.28	N.A.	34.90
40-70	10.09	N.A.	0.80
60-80	2.49	N.A.	0.20
70-80	1.48	N.A.	0.10
80-90	2.40	N.A.	0.20
90-110	0.63	N.A.	0.00
90-120	0.63	N.A.	0.00
90-130	0.63	N.A.	0.00
90-150	0.63	N.A.	0.00
90-180	0.63	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	1278.73	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	368.56
10-20	457.29
20-30	307.18
30-40	131.11
40-50	7.99
50-60	1.08
60-70	1.01
70-80	1.48
80-90	2.40
90-100	0.63
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

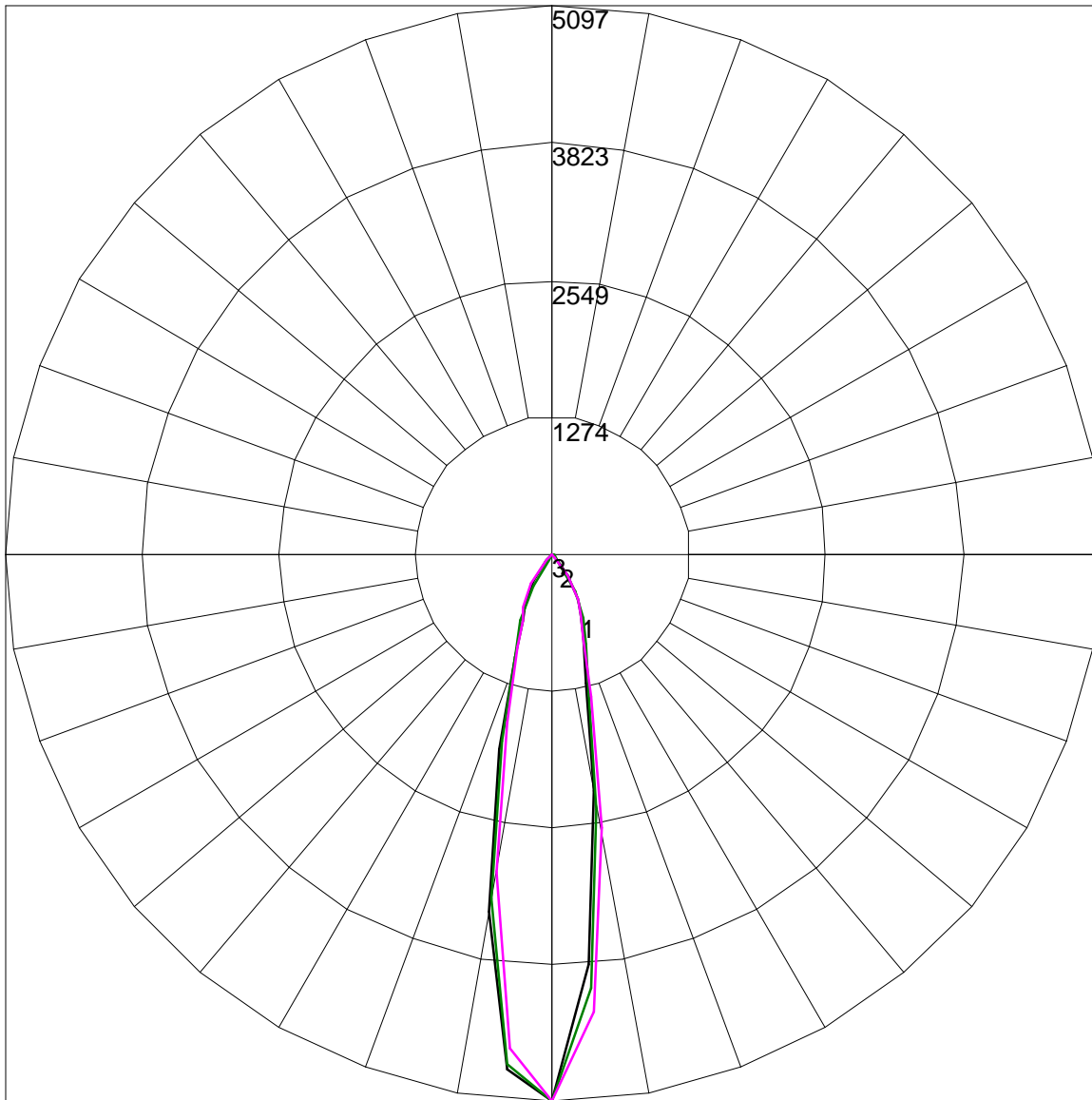
Effective Floor Cavity Reflectance 0.20

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	115	112	110	108	112	110	108	107	106	105	103	102	101	100	99	98	97	96
2	110	106	103	100	108	105	102	99	101	99	97	99	97	95	96	94	93	91
3	106	101	97	94	104	100	96	93	97	94	92	95	92	90	93	91	89	87
4	102	96	92	89	101	95	91	88	93	90	87	91	88	86	90	87	85	84
5	99	92	88	84	97	91	87	84	90	86	83	88	85	82	87	84	82	80
6	95	88	84	80	94	88	83	80	86	82	79	85	82	79	84	81	78	77
7	92	85	80	77	91	84	80	77	83	79	76	82	78	76	81	78	75	74
8	89	82	77	74	88	81	77	74	80	76	73	79	76	73	78	75	73	72
9	86	79	74	71	85	78	74	71	77	73	71	77	73	70	76	73	70	69
10	83	76	71	68	83	76	71	68	75	71	68	74	70	68	73	70	68	67

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## POLAR GRAPH



Maximum Candela = 5097.059 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)