

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00611\_7 ~ C08XXSQXT-13LXXK-NDEX-TSG-SO.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] SP-00611\_7\_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-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	1176
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	90
Total Luminaire Watts	13
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

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00611\_7 ~ C08XXSQXT-13LXXK-NDEX-TSG-SO.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1730	702	2211
55	226	188	168
65	92	148	129
75	93	117	101
85	243	270	307

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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	3770.585	3770.585	3770.585	3770.585	3770.585	3770.585	3770.585	3770.585	3770.585	3770.585
5	3181.945	3299.066	3344.624	3478.173	3523.392	3529.792	3544.856	3475.376	3493.245	3393.554
10	2181.121	2325.198	2377.691	2567.204	2610.743	2637.598	2652.690	2540.886	2571.745	2428.828
15	1338.498	1447.736	1483.568	1630.420	1650.311	1675.293	1683.076	1588.619	1617.802	1509.194
20	839.607	913.182	934.771	1005.629	1008.225	1026.819	1029.538	975.015	993.072	949.607
25	579.352	608.935	612.477	670.417	663.947	665.673	661.366	648.985	668.755	656.398
30	397.489	346.704	334.442	445.951	453.981	399.386	380.052	431.177	481.180	421.912
35	220.533	139.435	124.929	233.246	267.558	175.356	155.177	232.197	309.188	198.051
40	89.631	42.294	35.934	87.681	117.953	49.178	40.266	87.343	151.226	64.521
45	28.440	12.664	11.543	25.503	36.346	10.311	9.156	22.149	56.620	20.362
50	7.901	5.038	4.947	7.766	8.396	4.157	4.233	5.995	17.816	8.212
55	3.016	2.482	2.501	2.879	2.243	2.806	2.039	2.969	5.258	4.067
60	1.744	1.537	1.205	1.864	1.238	1.816	1.583	2.029	3.221	2.330
65	0.908	1.439	1.450	0.570	1.264	1.396	1.588	2.029	1.935	2.282
70	0.812	1.008	0.868	0.806	0.455	1.765	1.629	1.728	1.587	1.750
75	0.557	0.667	0.704	0.709	0.606	1.857	1.640	1.477	2.631	2.602
80	0.806	0.326	0.666	0.621	0.463	2.265	2.613	2.320	2.611	2.371
85	0.493	0.624	0.548	0.536	0.623	3.940	3.031	3.647	3.901	3.840
90	0.539	0.141	0.447	0.237	0.596	4.545	1.603	4.217	1.738	5.741
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	3770.585	3770.585	3770.585	3770.585	3770.585	3770.585	3770.585
5	3361.948	3220.090	3179.016	3120.539	3107.692	3200.083	3181.945
10	2393.982	2214.978	2173.297	2113.133	2094.570	2201.999	2181.121
15	1488.007	1354.603	1326.380	1289.160	1278.538	1356.677	1338.498
20	938.453	851.348	834.086	822.806	820.973	858.685	839.607
25	645.775	592.918	582.651	566.191	558.848	597.126	579.352
30	403.209	408.387	410.737	333.073	319.163	405.504	397.489
35	179.433	226.658	244.600	138.237	125.831	220.567	220.533
40	56.994	90.931	114.891	40.812	34.729	86.540	89.631
45	17.815	28.689	41.296	12.720	9.829	24.040	28.440
50	6.665	8.949	11.676	4.914	4.000	6.726	7.901
55	3.787	4.393	5.049	2.259	2.063	3.110	3.016
60	2.523	2.845	2.556	1.123	1.164	1.498	1.744

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<b>65</b>	2.552	2.694	2.564	1.165	0.907	1.265	0.908
<b>70</b>	2.292	1.757	1.800	0.860	0.568	0.710	0.812
<b>75</b>	1.951	2.147	1.791	0.592	0.870	1.064	0.557
<b>80</b>	3.339	2.974	2.729	0.556	0.380	0.872	0.806
<b>85</b>	3.682	4.086	3.947	0.766	0.913	0.596	0.493
<b>90</b>	1.810	4.597	4.465	0.227	0.789	0.171	0.539
<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	717.22	N.A.	61.00
0-30	1009.01	N.A.	85.80
0-40	1142.72	N.A.	97.20
0-60	1170.33	N.A.	99.50
0-80	1173.41	N.A.	99.80
0-90	1175.6	N.A.	100.00
10-90	885.92	N.A.	75.30
20-40	425.49	N.A.	36.20
20-50	449.65	N.A.	38.20
40-70	29.21	N.A.	2.50
60-80	3.08	N.A.	0.30
70-80	1.49	N.A.	0.10
80-90	2.18	N.A.	0.20
90-110	0.55	N.A.	0.00
90-120	0.55	N.A.	0.00
90-130	0.55	N.A.	0.00
90-150	0.55	N.A.	0.00
90-180	0.55	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	1176.14	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	289.68
10-20	427.54
20-30	291.78
30-40	133.71
40-50	24.16
50-60	3.46
60-70	1.59
70-80	1.49
80-90	2.18
90-100	0.55
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

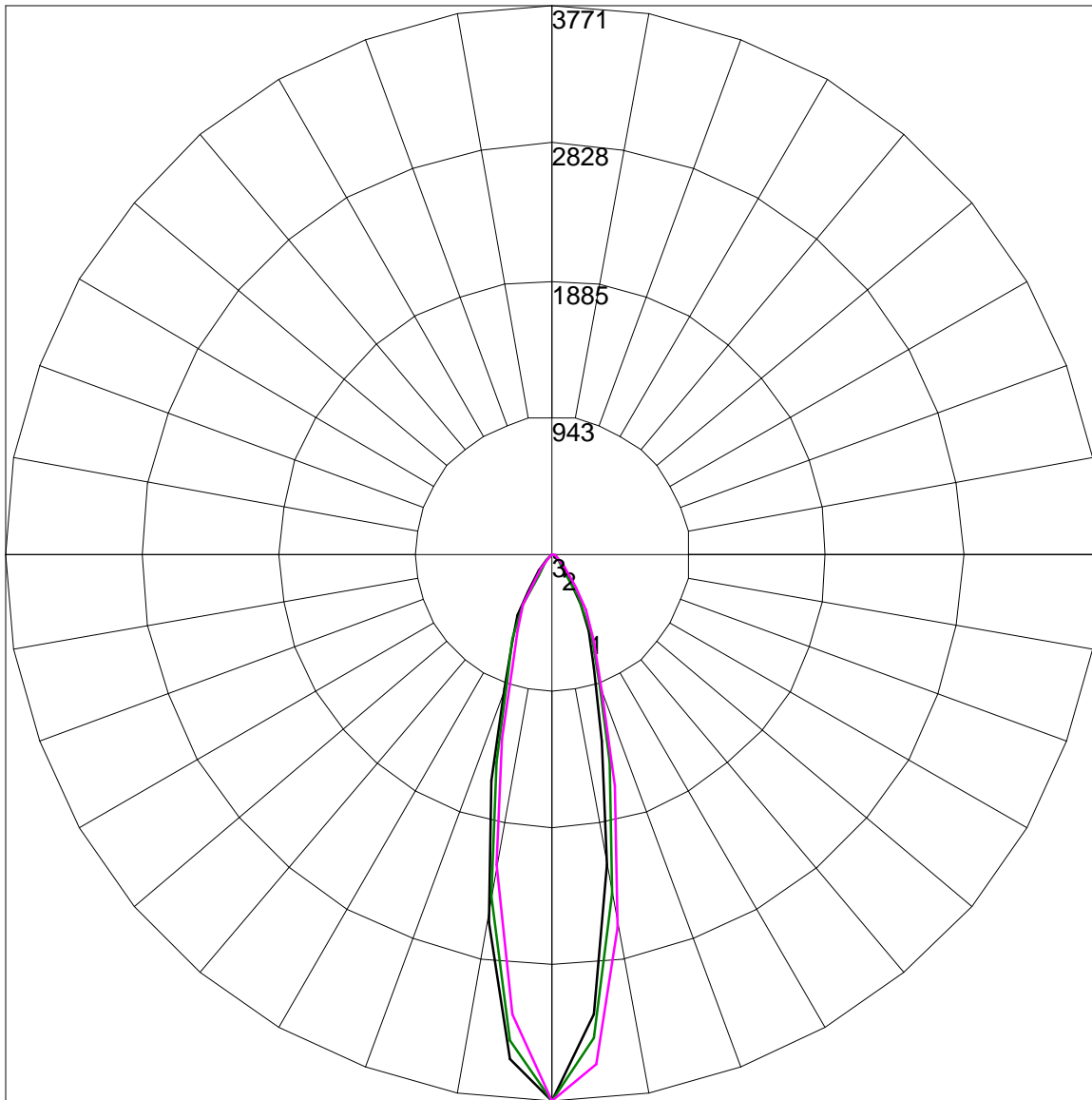
Effective Floor Cavity Reflectance 0.20

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	87	92	88	86	90	87	85	88	86	84	82
5	98	91	86	82	96	90	85	82	88	84	81	86	83	81	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	74	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	66	80	73	68	65	72	68	65	72	68	65	71	67	65	64

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## POLAR GRAPH



Maximum Candela = 3770.585 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)