

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00611\_5 ~ C08XXSQXT-30LXXK-NDEX-TSG-GL.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] SP-00611\_5  
[TESTLAB] VLS-245-981  
[MANUFAC] Spectrum Lighting  
[ISSUE DATE] 6/29/2017  
[UPDATE] 2/2/2018  
[LUMCAT] C08xxSQXT-30L-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

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2739
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	84
Total Luminaire Watts	32.6
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

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00611\_5 ~ C08XXSQXT-30LXXK-NDEX-TSG-GL.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	758	468	1062
55	215	200	249
65	295	301	189
75	216	357	181
85	882	559	549

# 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>
<b>0</b>	10702.940	10702.940	10702.940	10702.940	10702.940	10702.940	10702.940	10702.940	10702.940	10702.940
<b>5</b>	9700.759	10158.050	10120.560	10053.860	9605.598	9820.906	9681.129	9067.080	8768.512	8191.139
<b>10</b>	6441.115	7139.696	7089.491	7078.975	6418.001	6588.755	6435.746	5708.040	5427.647	4826.699
<b>15</b>	3517.323	4037.013	4002.451	4000.191	3532.676	3628.698	3576.652	3126.666	2978.854	2688.179
<b>20</b>	1989.779	2329.374	2318.573	2265.810	2056.469	2140.401	2136.690	1874.138	1814.830	1812.345
<b>25</b>	1388.867	1557.942	1548.884	1535.633	1467.019	1503.641	1505.832	1357.105	1409.432	1413.786
<b>30</b>	1069.375	945.436	903.996	1152.222	1149.032	996.987	988.799	1033.588	1133.513	818.346
<b>35</b>	602.120	273.667	283.102	722.673	691.659	360.259	323.731	557.300	658.227	223.119
<b>40</b>	155.597	24.349	21.754	199.627	199.744	40.787	37.647	138.147	177.747	23.510
<b>45</b>	12.461	8.727	7.697	18.724	17.461	15.708	14.495	12.850	18.708	11.163
<b>50</b>	4.867	4.839	4.110	7.022	6.507	9.314	7.489	7.346	6.240	7.341
<b>55</b>	2.864	3.008	2.666	4.099	3.315	5.850	3.681	4.082	5.065	5.595
<b>60</b>	2.500	2.863	2.096	2.109	2.440	4.700	4.239	2.993	3.410	3.885
<b>65</b>	2.898	1.611	2.960	2.748	1.856	4.327	3.914	3.634	5.299	3.880
<b>70</b>	1.560	1.436	1.852	1.098	1.091	5.013	3.780	3.268	3.353	4.024
<b>75</b>	1.301	1.579	2.150	1.580	1.088	5.212	4.617	5.985	4.795	4.646
<b>80</b>	1.458	1.841	1.340	2.365	1.735	5.464	5.873	5.356	6.251	6.827
<b>85</b>	1.787	1.178	1.132	1.298	1.112	8.960	7.058	7.721	8.511	8.638
<b>90</b>	0.733	0.458	1.681	0.551	1.602	10.216	4.004	8.235	3.911	13.151
<b>95</b>	0.000	0.000	0.000	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	0.000	0.000	0.000
<b>105</b>	0.000	0.000	0.000	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	0.000	0.000	0.000
<b>115</b>	0.000	0.000	0.000	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	0.000	0.000	0.000
<b>125</b>	0.000	0.000	0.000	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	0.000	0.000	0.000
<b>135</b>	0.000	0.000	0.000	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	0.000	0.000	0.000
<b>145</b>	0.000	0.000	0.000	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	0.000	0.000	0.000
<b>155</b>	0.000	0.000	0.000	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	0.000	0.000	0.000
<b>165</b>	0.000	0.000	0.000	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	0.000	0.000	0.000
<b>175</b>	0.000	0.000	0.000	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	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>
<b>0</b>	10702.940	10702.940	10702.940	10702.940	10702.940	10702.940	10702.940
<b>5</b>	8136.473	7954.583	8369.028	8624.086	8785.297	9407.553	9700.759
<b>10</b>	4825.068	4645.253	5091.319	5214.190	5340.710	6073.039	6441.115
<b>15</b>	2685.849	2565.582	2785.254	2826.216	2875.547	3290.799	3517.323
<b>20</b>	1818.953	1688.306	1674.844	1763.192	1786.113	1888.433	1989.779
<b>25</b>	1415.354	1347.375	1226.594	1379.180	1361.762	1353.631	1388.867
<b>30</b>	772.152	989.553	1006.102	771.020	747.318	1089.930	1069.375
<b>35</b>	189.443	423.860	585.227	194.691	182.277	555.750	602.120
<b>40</b>	23.970	63.099	128.170	29.823	29.015	118.706	155.597
<b>45</b>	9.577	9.877	13.416	13.297	11.070	12.579	12.461
<b>50</b>	4.793	7.456	7.398	6.852	5.552	5.510	4.867
<b>55</b>	4.206	6.199	4.064	3.911	3.932	3.273	2.864
<b>60</b>	3.745	5.172	4.105	2.447	2.620	2.183	2.500

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<b>65</b>	3.486	4.064	3.578	2.292	2.294	2.323	2.898
<b>70</b>	4.534	5.825	3.149	1.717	2.322	2.248	1.560
<b>75</b>	5.139	5.011	4.688	2.204	1.996	2.261	1.301
<b>80</b>	6.709	7.882	7.044	1.630	1.156	1.493	1.458
<b>85</b>	10.792	10.703	9.486	1.462	2.045	1.333	1.787
<b>90</b>	3.989	13.531	10.579	0.897	2.277	0.597	0.733
<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	1748.71	N.A.	63.90
0-30	2406.78	N.A.	87.90
0-40	2698.8	N.A.	98.50
0-60	2725.44	N.A.	99.50
0-80	2732.17	N.A.	99.80
0-90	2737.41	N.A.	100.00
10-90	1961.68	N.A.	71.60
20-40	950.09	N.A.	34.70
20-50	972.75	N.A.	35.50
40-70	29.75	N.A.	1.10
60-80	6.73	N.A.	0.20
70-80	3.63	N.A.	0.10
80-90	5.24	N.A.	0.20
90-110	1.31	N.A.	0.00
90-120	1.31	N.A.	0.00
90-130	1.31	N.A.	0.00
90-150	1.31	N.A.	0.00
90-180	1.31	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	2738.72	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	775.73
10-20	972.98
20-30	658.07
30-40	292.02
40-50	22.66
50-60	3.98
60-70	3.10
70-80	3.63
80-90	5.24
90-100	1.31
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

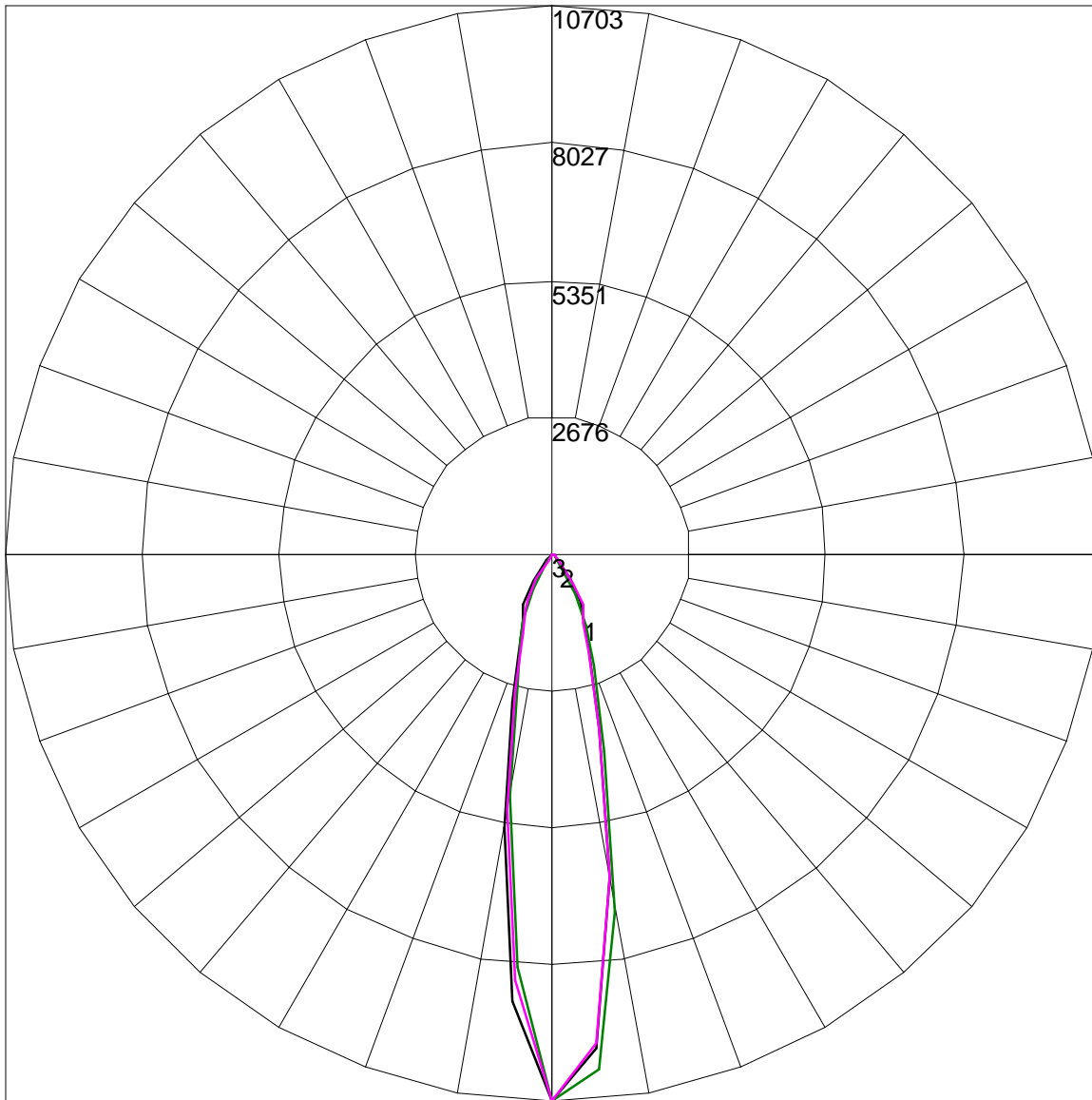
Effective Floor Cavity Reflectance 0.20

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 = 10702.94 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)