

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00611\_5 ~ C08XXSQXT-10LXXK-NDEX-TSG-GL.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] SP-00611\_5\_M-10L  
[TESTLAB] VLS-245-981  
[MANUFAC] Spectrum Lighting  
[ISSUEDATE] 6/29/2017  
[UPDATE] 2/2/2018  
[LUMCAT] C08xxSQXT-10L-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,scaled from 30L

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	881
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	97
Total Luminaire Watts	9.1
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-10LXXK-NDEX-TSG-GL.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	244	151	342
55	69	64	80
65	95	97	61
75	69	115	58
85	284	180	177

# 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	3442.065	3442.065	3442.065	3442.065	3442.065	3442.065	3442.065	3442.065	3442.065	3442.065
5	3119.764	3266.829	3254.772	3233.321	3089.160	3158.403	3113.451	2915.973	2819.953	2634.270
10	2071.463	2296.126	2279.980	2276.598	2064.029	2118.944	2069.736	1835.706	1745.531	1552.266
15	1131.171	1298.303	1287.188	1286.461	1136.109	1166.989	1150.251	1005.536	957.999	864.518
20	639.913	749.127	745.653	728.684	661.360	688.353	687.159	602.723	583.649	582.850
25	446.660	501.034	498.121	493.860	471.793	483.571	484.276	436.445	453.273	454.674
30	343.911	304.052	290.725	370.555	369.529	320.631	317.998	332.402	364.538	263.180
35	193.642	88.011	91.046	232.412	222.438	115.859	104.112	179.228	211.686	71.755
40	50.040	7.831	6.996	64.200	64.238	13.117	12.107	44.428	57.163	7.561
45	4.007	2.807	2.475	6.022	5.615	5.052	4.662	4.133	6.016	3.590
50	1.565	1.556	1.322	2.258	2.093	2.995	2.408	2.362	2.007	2.361
55	0.921	0.967	0.857	1.318	1.066	1.881	1.184	1.313	1.629	1.799
60	0.804	0.921	0.674	0.678	0.785	1.512	1.363	0.963	1.097	1.249
65	0.932	0.518	0.952	0.884	0.597	1.392	1.259	1.169	1.704	1.248
70	0.502	0.462	0.596	0.353	0.351	1.612	1.216	1.051	1.078	1.294
75	0.418	0.508	0.691	0.508	0.350	1.676	1.485	1.925	1.542	1.494
80	0.469	0.592	0.431	0.761	0.558	1.757	1.889	1.722	2.010	2.196
85	0.575	0.379	0.364	0.417	0.358	2.882	2.270	2.483	2.737	2.778
90	0.236	0.147	0.541	0.177	0.515	3.285	1.288	2.648	1.258	4.229
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	3442.065	3442.065	3442.065	3442.065	3442.065	3442.065	3442.065
5	2616.690	2558.194	2691.479	2773.506	2825.351	3025.469	3119.764
10	1551.742	1493.913	1637.368	1676.883	1717.572	1953.089	2071.463
15	863.769	825.091	895.738	908.911	924.776	1058.321	1131.171
20	584.975	542.959	538.630	567.043	574.414	607.320	639.913
25	455.178	433.316	394.473	443.544	437.943	435.328	446.660
30	248.324	318.240	323.562	247.960	240.337	350.521	343.911
35	60.925	136.313	188.209	62.613	58.620	178.729	193.642
40	7.709	20.293	41.219	9.591	9.331	38.176	50.040
45	3.080	3.176	4.315	4.276	3.560	4.045	4.007
50	1.541	2.398	2.379	2.204	1.786	1.772	1.565
55	1.353	1.994	1.307	1.258	1.265	1.053	0.921
60	1.204	1.663	1.320	0.787	0.843	0.702	0.804

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<b>65</b>	1.121	1.307	1.151	0.737	0.738	0.747	0.932
<b>70</b>	1.458	1.873	1.013	0.552	0.747	0.723	0.502
<b>75</b>	1.653	1.612	1.508	0.709	0.642	0.727	0.418
<b>80</b>	2.158	2.535	2.265	0.524	0.372	0.480	0.469
<b>85</b>	3.471	3.442	3.051	0.470	0.658	0.429	0.575
<b>90</b>	1.283	4.352	3.402	0.288	0.732	0.192	0.236
<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	%Fxt
0-20	562.38	N.A.	63.90
0-30	774.02	N.A.	87.90
0-40	867.93	N.A.	98.50
0-60	876.50	N.A.	99.50
0-80	878.67	N.A.	99.80
0-90	880.35	N.A.	100.00
10-90	630.88	N.A.	71.60
20-40	305.55	N.A.	34.70
20-50	312.84	N.A.	35.50
40-70	9.57	N.A.	1.10
60-80	2.16	N.A.	0.20
70-80	1.17	N.A.	0.10
80-90	1.68	N.A.	0.20
90-110	0.42	N.A.	0.00
90-120	0.42	N.A.	0.00
90-130	0.42	N.A.	0.00
90-150	0.42	N.A.	0.00
90-180	0.42	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	880.77	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	249.47
10-20	312.91
20-30	211.64
30-40	93.91
40-50	7.29
50-60	1.28
60-70	1.00
70-80	1.17
80-90	1.68
90-100	0.42
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

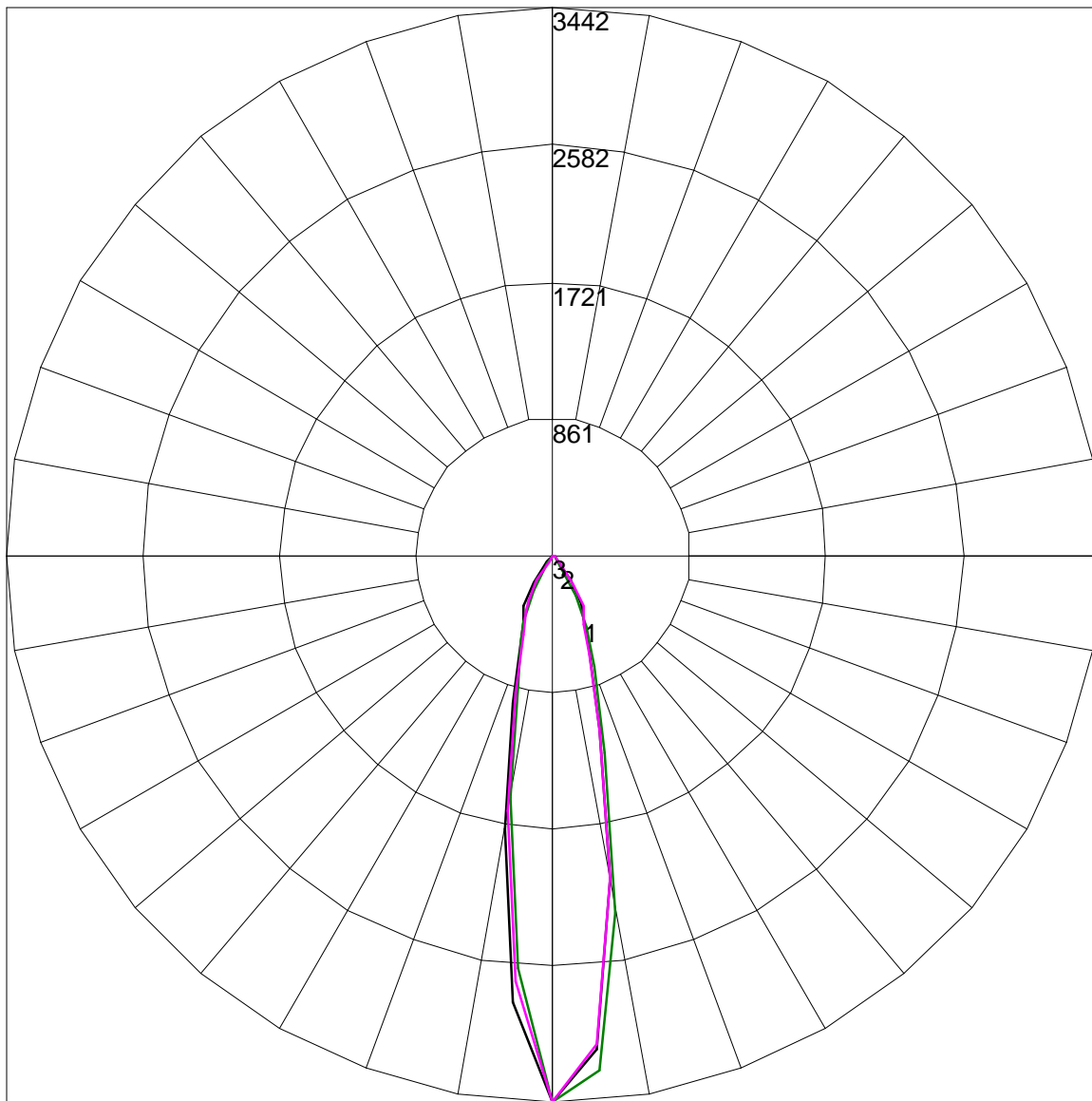
Effective Floor Cavity Reflectance 0.20

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	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	100	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	72	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 = 3442.065 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)