

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00611\_10 ~ C08XXSQXT-13LXXK-WDEX-TSG-NL.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] SP-00611\_10\_M-13L  
[TESTLAB] VLS-245-981  
[MANUFAC] Spectrum Lighting  
[ISSUEDATE] 6/29/2017  
[UPDATE] 2/2/2018  
[LUMCAT] C08xxSQXT-13L-xxK-WD-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, Wide Beam  
[OTHER] Lower Trim, Semi-diffuse Clear Anodized  
[OTHER] No Lens  
[OTHER] 47.5 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	1095
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	84
Total Luminaire Watts	13
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.72
Spacing Criterion (90-270)	0.72
Spacing Criterion (Diagonal)	0.78
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\_10 ~ C08XXSQXT-13LXXK-WDEX-TSG-NL.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2279	1742	2195
55	459	220	358
65	122	129	92
75	113	103	140
85	400	449	368

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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	1697.843	1697.843	1697.843	1697.843	1697.843	1697.843	1697.843	1697.843	1697.843	1697.843
5	1635.370	1634.443	1631.207	1634.138	1651.921	1649.605	1655.067	1657.156	1661.955	1674.275
10	1480.161	1474.444	1470.234	1473.837	1504.788	1514.957	1519.169	1514.796	1531.374	1550.197
15	1243.032	1248.673	1243.196	1239.221	1270.194	1290.227	1300.098	1277.467	1307.036	1327.762
20	992.076	1029.815	1039.041	999.708	1002.188	1039.540	1052.133	1002.789	1032.065	1068.975
25	803.573	826.955	817.393	809.510	791.394	832.806	829.927	788.704	795.058	826.680
30	606.880	562.361	558.450	604.938	618.536	548.898	535.341	614.699	604.708	469.756
35	354.175	223.722	209.573	347.806	342.421	216.876	164.896	234.560	342.333	155.021
40	131.559	59.951	63.723	129.243	110.922	65.557	67.823	66.562	94.877	53.139
45	37.461	30.386	28.642	32.805	36.078	32.110	31.876	31.037	29.275	23.344
50	17.754	11.911	10.297	15.604	16.767	11.872	11.320	12.749	12.012	6.915
55	6.119	3.382	2.934	5.044	4.772	3.902	3.344	3.169	2.890	1.927
60	1.748	1.402	1.633	1.720	1.322	2.279	2.219	1.398	1.426	1.575
65	1.194	0.984	1.269	1.088	0.907	1.637	2.259	2.158	1.290	1.207
70	0.925	0.809	0.847	0.820	0.634	2.289	2.534	2.215	1.896	2.144
75	0.680	0.921	0.620	0.979	0.842	3.131	2.491	2.750	3.343	2.423
80	0.599	0.563	1.031	0.560	0.774	3.022	3.329	3.956	3.663	3.023
85	0.811	0.672	0.910	0.761	0.745	4.376	4.300	4.094	4.505	5.295
90	0.903	0.712	0.635	0.175	0.624	5.695	0.000	0.000	0.000	0.000
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. Angles 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	1697.843	1697.843	1697.843	1697.843	1697.843	1697.843	1697.843
5	1677.576	1670.742	1655.520	1627.188	1631.149	1653.397	1635.370
10	1554.936	1544.079	1510.941	1471.474	1474.507	1506.617	1480.161
15	1340.290	1316.172	1276.390	1249.349	1238.731	1265.888	1243.032
20	1074.912	1038.986	1008.930	1030.740	1024.450	991.595	992.076
25	809.274	800.569	806.218	830.415	832.421	793.647	803.573
30	480.399	587.079	633.886	529.248	559.779	636.091	606.880
35	122.546	271.116	367.573	175.361	209.170	379.121	354.175
40	51.910	74.641	123.409	59.072	63.761	113.746	131.559
45	22.425	28.937	31.805	29.101	30.599	35.466	37.461
50	6.292	12.762	13.846	10.009	11.692	18.506	17.754
55	1.914	4.032	4.573	2.612	3.570	4.859	6.119
60	1.442	1.829	1.734	1.205	1.017	1.429	1.748

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<b>65</b>	1.620	1.638	1.311	0.880	0.813	1.061	1.194
<b>70</b>	1.981	2.069	1.977	0.909	0.673	0.856	0.925
<b>75</b>	2.588	2.468	2.791	1.121	1.074	0.920	0.680
<b>80</b>	3.350	2.639	3.765	0.599	0.759	0.683	0.599
<b>85</b>	3.972	4.958	4.239	0.961	0.901	0.776	0.811
<b>90</b>	0.000	5.638	0.000	0.000	0.867	0.644	0.903
<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	507.89	N.A.	46.40
0-30	875.92	N.A.	80.00
0-40	1054.81	N.A.	96.30
0-60	1089.37	N.A.	99.50
0-80	1092.68	N.A.	99.80
0-90	1094.94	N.A.	100.00
10-90	942.01	N.A.	86.00
20-40	546.92	N.A.	49.90
20-50	576.73	N.A.	52.70
40-70	35.98	N.A.	3.30
60-80	3.31	N.A.	0.30
70-80	1.89	N.A.	0.20
80-90	2.26	N.A.	0.20
90-110	0.27	N.A.	0.00
90-120	0.27	N.A.	0.00
90-130	0.27	N.A.	0.00
90-150	0.27	N.A.	0.00
90-180	0.27	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	1095.21	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	152.93
10-20	354.96
20-30	368.03
30-40	178.90
40-50	29.81
50-60	4.74
60-70	1.42
70-80	1.89
80-90	2.26
90-100	0.27
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

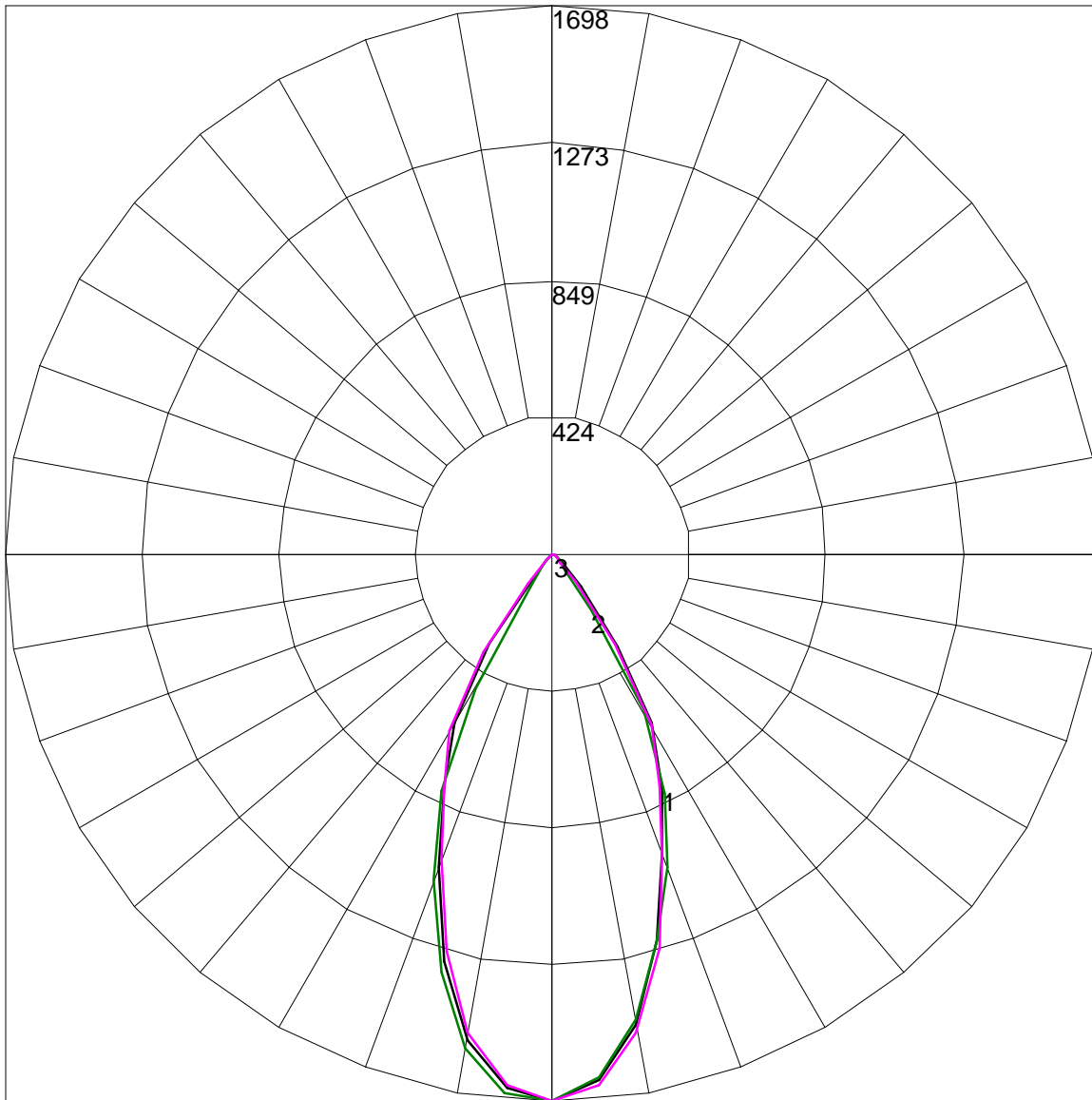
Effective Floor Cavity Reflectance 0.20

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	103	102	101	100	99	98	97	96	94
2	109	104	100	97	107	102	99	96	99	96	94	96	94	92	94	92	90	88
3	104	98	93	89	102	96	92	89	94	90	87	91	88	86	89	87	85	83
4	99	92	87	83	97	91	86	82	89	85	82	87	83	81	85	82	80	78
5	95	87	81	77	93	86	81	77	84	80	76	83	79	76	81	78	75	74
6	90	82	77	73	89	81	76	72	80	75	72	78	74	71	77	74	71	70
7	86	78	72	68	85	77	72	68	76	71	68	75	70	67	74	70	67	66
8	83	74	68	64	81	73	68	64	72	67	64	71	67	64	70	66	63	62
9	79	70	65	61	78	70	64	61	69	64	61	68	63	60	67	63	60	59
10	76	67	61	58	75	66	61	58	65	61	57	65	60	57	64	60	57	56

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## POLAR GRAPH



Maximum Candela = 1697.843 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)