

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00611\_3 ~ C08XXSQXT-10LXXK-MDEX-TSG-SO.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] SP-00611\_3\_M-10L  
[TESTLAB] VLS-245-981  
[MANUFAC] Spectrum Lighting  
[ISSUE DATE] 6/29/2017  
[UPDATE] 2/2/2018  
[LUMCAT] C08xxSQXT-10L-xxK-MD-TSG-SO  
[LUMINAIRE] Nom. 8" Square LED Cylinder Downlight  
[OTHER] Data applicable to: 12"H and 16"H Square Cylinders  
[OTHER] Upper, Internal Reflector, Medium Beam  
[OTHER] Lower Trim, Semi-diffuse Clear Anodized  
[OTHER] Solite Lens, Regressed in Lower Trim  
[OTHER] 41.1 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	751
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	82
Total Luminaire Watts	9.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.64
Spacing Criterion (90-270)	0.70
Spacing Criterion (Diagonal)	0.72
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\_3 ~ C08XXSQXT-10LXXK-MDEX-TSG-SO.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2274	1312	3021
55	414	265	431
65	134	106	128
75	84	100	74
85	313	148	232

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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	1320.443	1320.443	1320.443	1320.443	1320.443	1320.443	1320.443	1320.443	1320.443	1320.443
5	1258.583	1278.198	1279.189	1296.870	1298.092	1278.426	1280.812	1267.270	1266.391	1247.569
10	1094.866	1127.117	1132.760	1165.172	1168.921	1133.428	1134.734	1106.367	1108.538	1077.174
15	878.381	917.810	926.768	962.503	966.438	929.138	932.158	893.300	896.136	865.279
20	669.019	712.046	725.137	748.962	749.858	718.930	722.074	685.816	686.213	674.496
25	494.874	531.453	538.695	565.415	560.669	528.721	525.074	506.780	511.198	509.261
30	343.697	342.587	330.126	397.155	400.147	337.336	323.457	340.128	363.059	326.308
35	203.318	159.814	148.854	228.758	250.121	162.522	144.502	182.038	225.174	152.984
40	94.380	57.707	54.247	96.987	124.759	57.428	48.426	72.977	112.893	58.692
45	37.380	21.041	21.566	35.940	49.659	19.244	17.272	24.978	47.118	22.800
50	13.908	9.075	8.913	14.138	16.742	8.198	7.319	9.029	18.866	10.027
55	5.521	4.262	3.530	5.784	5.743	3.494	2.963	4.991	7.427	5.018
60	2.571	1.744	1.858	2.739	2.267	1.880	1.686	2.645	3.272	3.131
65	1.315	1.358	1.046	1.385	1.260	1.535	1.681	2.100	2.180	2.062
70	0.594	0.841	0.885	0.627	0.574	1.943	1.823	1.448	1.693	2.039
75	0.508	0.588	0.602	0.528	0.443	1.546	1.723	1.672	1.975	1.834
80	0.492	0.416	0.528	0.483	0.458	2.277	2.471	2.428	1.799	2.180
85	0.634	0.473	0.299	0.427	0.471	2.584	2.614	2.820	2.838	3.306
90	0.577	0.213	0.437	0.240	0.563	3.751	1.547	3.891	1.892	3.157
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	1320.443	1320.443	1320.443	1320.443	1320.443	1320.443	1320.443
5	1242.744	1219.368	1216.938	1243.338	1244.795	1262.848	1258.583
10	1072.129	1035.525	1032.703	1073.295	1073.986	1100.610	1094.866
15	862.909	820.172	816.775	863.118	864.689	888.000	878.381
20	672.760	626.702	616.785	665.664	669.491	683.014	669.019
25	501.453	464.397	450.947	489.972	490.885	509.258	494.874
30	312.474	309.617	306.225	306.768	293.458	349.601	343.697
35	142.350	162.662	177.831	141.354	128.292	194.856	203.318
40	52.637	68.093	84.809	49.775	44.209	81.097	94.380
45	20.917	26.160	35.147	18.492	17.144	27.770	37.380
50	9.516	10.576	13.645	8.846	7.255	10.125	13.908
55	4.632	4.643	6.107	3.737	2.844	4.502	5.521
60	2.794	2.300	3.245	1.436	1.539	2.143	2.571

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<b>65</b>	2.272	2.234	2.103	1.134	1.140	1.055	1.315
<b>70</b>	1.954	2.254	2.054	0.808	0.534	0.752	0.594
<b>75</b>	2.197	2.327	1.905	0.602	0.572	0.619	0.508
<b>80</b>	2.370	2.490	2.509	0.511	0.486	0.522	0.492
<b>85</b>	3.253	2.970	3.256	0.477	0.318	0.579	0.634
<b>90</b>	1.930	3.464	4.588	0.207	0.440	0.336	0.577
<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	364.14	N.A.	48.50
0-30	597.30	N.A.	79.60
0-40	713.99	N.A.	95.10
0-60	745.38	N.A.	99.30
0-80	748.45	N.A.	99.70
0-90	750.22	N.A.	99.90
10-90	634.80	N.A.	84.60
20-40	349.85	N.A.	46.60
20-50	376.21	N.A.	50.10
40-70	33.09	N.A.	4.40
60-80	3.06	N.A.	0.40
70-80	1.36	N.A.	0.20
80-90	1.78	N.A.	0.20
90-110	0.47	N.A.	0.10
90-120	0.47	N.A.	0.10
90-130	0.47	N.A.	0.10
90-150	0.47	N.A.	0.10
90-180	0.47	N.A.	0.10
110-180	0.00	N.A.	0.00
0-180	750.69	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	115.42
10-20	248.72
20-30	233.16
30-40	116.70
40-50	26.35
50-60	5.04
60-70	1.70
70-80	1.36
80-90	1.78
90-100	0.47
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

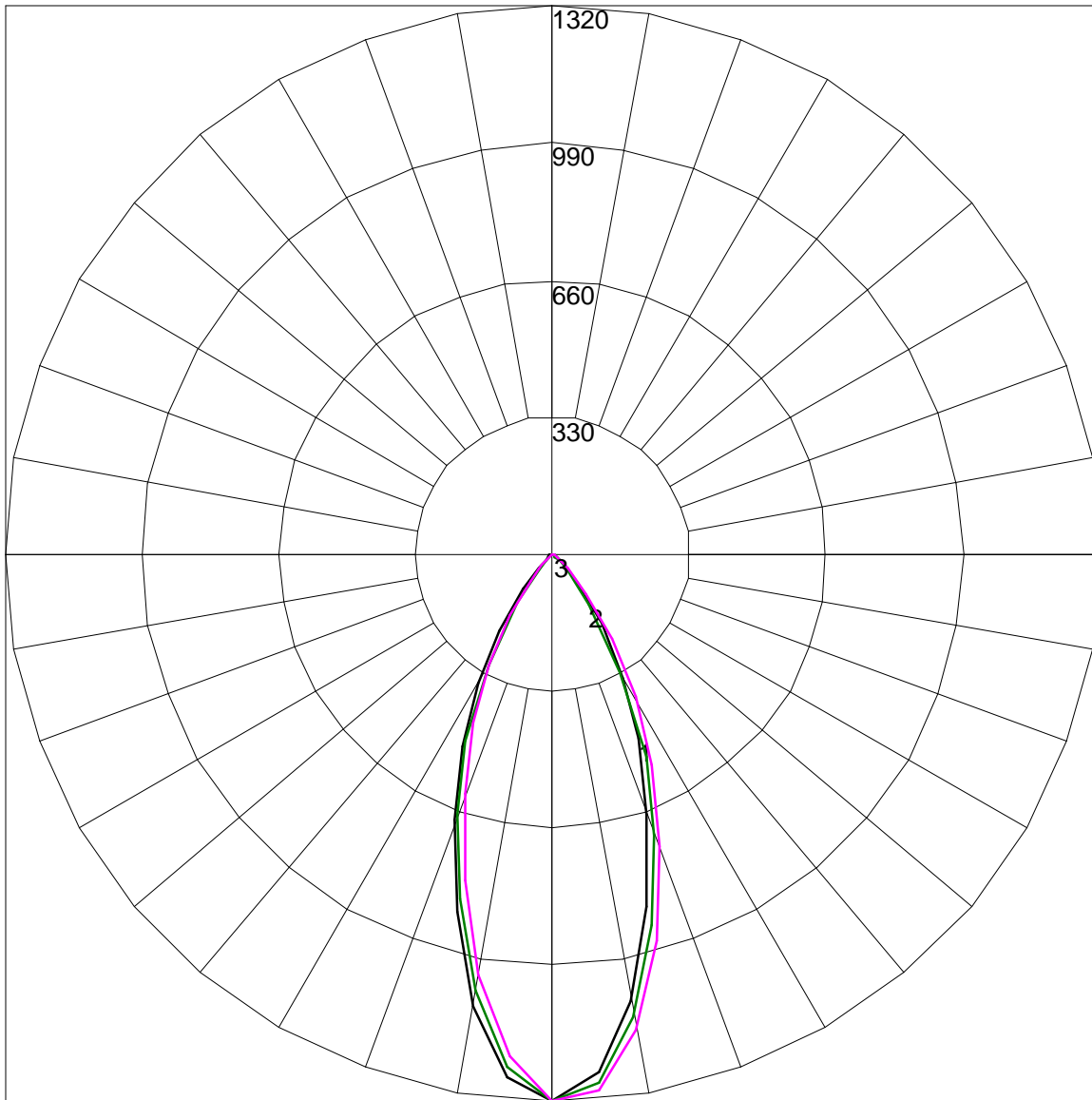
Effective Floor Cavity Reflectance 0.20

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	106	102	99	96	99	96	94	96	94	92	93	92	90	88
3	104	98	93	90	102	96	92	89	94	90	87	91	88	86	89	87	85	83
4	99	92	87	83	97	91	86	83	89	85	82	87	83	81	85	82	80	78
5	95	87	82	78	93	86	81	77	84	80	77	83	79	76	81	78	75	74
6	90	82	77	73	89	81	76	73	80	75	72	79	75	72	77	74	71	70
7	87	78	72	69	85	77	72	68	76	71	68	75	71	68	74	70	67	66
8	83	74	69	65	82	74	68	65	72	68	64	71	67	64	71	67	64	63
9	79	70	65	61	78	70	65	61	69	64	61	68	64	61	67	64	61	59
10	76	67	62	58	75	67	62	58	66	61	58	65	61	58	65	61	58	57

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## POLAR GRAPH



Maximum Candela = 1320.443 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)