

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00611\_9 ~ C08XXSQXT-30LXXK-WDEX-TSG-GL.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] SP-00611\_9  
[TESTLAB] VLS-245-981  
[MANUFAC] Spectrum Lighting  
[ISSUEDATE] 6/29/2017  
[UPDATE] 2/2/2018  
[LUMCAT] C08xxSQXT-30L-xxK-WD-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, Wide Beam  
[OTHER] Lower Trim, Semi-diffuse Clear Anodized  
[OTHER] Clear Glass Lens, Regressed in Lower Trim  
[OTHER] 47.4 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

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2284
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	70
Total Luminaire Watts	32.6
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.74
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\_9 ~ C08XXSQXT-30LXXK-WDEX-TSG-GL.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4831	3086	4151
55	805	313	610
65	201	253	284
75	409	288	240
85	668	626	842

**IES INDOOR REPORT**

**PHOTOMETRIC FILENAME : SP-00611\_9 ~ C08XXSQXT-30LXXK-WDEX-TSG-GL.IES**

**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>	3495.071	3495.071	3495.071	3495.071	3495.071	3495.071	3495.071	3495.071	3495.071	3495.071
<b>5</b>	3412.114	3446.146	3442.256	3428.902	3392.864	3443.647	3429.771	3436.571	3373.524	3355.798
<b>10</b>	3134.832	3199.709	3197.019	3176.835	3096.865	3173.774	3159.575	3160.402	3062.484	3019.261
<b>15</b>	2664.980	2768.911	2770.084	2722.091	2609.391	2716.202	2690.601	2681.000	2570.509	2537.286
<b>20</b>	2103.020	2247.989	2255.093	2166.328	2039.757	2172.671	2167.227	2104.962	2034.424	2114.732
<b>25</b>	1636.292	1724.244	1696.291	1670.446	1605.659	1714.316	1727.631	1643.588	1661.206	1730.813
<b>30</b>	1258.703	1078.508	969.759	1218.369	1221.895	1154.483	1083.386	1267.202	1294.533	1196.522
<b>35</b>	761.409	389.128	321.605	628.453	614.535	378.202	272.701	669.526	760.412	386.132
<b>40</b>	269.524	127.545	119.047	169.325	177.996	139.328	138.134	154.408	287.364	123.580
<b>45</b>	79.410	60.952	50.722	66.841	68.232	68.896	67.291	80.728	93.787	64.349
<b>50</b>	34.831	20.296	14.259	26.434	27.864	26.561	23.682	38.340	40.484	21.986
<b>55</b>	10.736	5.203	4.177	6.807	8.135	9.496	8.103	12.703	14.807	7.609
<b>60</b>	3.396	3.060	2.391	2.748	3.066	6.028	5.946	6.409	5.772	4.552
<b>65</b>	1.974	2.441	2.485	2.284	2.790	5.141	4.701	5.522	5.240	4.880
<b>70</b>	2.202	1.965	1.355	1.893	1.932	5.853	5.990	5.280	4.763	5.418
<b>75</b>	2.463	2.122	1.734	1.298	1.442	6.548	6.505	6.399	4.897	5.920
<b>80</b>	1.635	1.816	1.532	1.714	1.589	6.458	6.658	5.831	7.406	7.277
<b>85</b>	1.353	1.268	1.268	1.907	1.706	9.062	8.921	8.517	8.873	9.511
<b>90</b>	0.000	0.000	0.000	0.000	0.000	10.810	12.597	10.718	12.069	12.390
<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>	3495.071	3495.071	3495.071	3495.071	3495.071	3495.071	3495.071
<b>5</b>	3347.338	3356.436	3381.766	3377.557	3376.887	3384.915	3412.114
<b>10</b>	3013.359	3027.494	3085.541	3052.547	3057.316	3068.286	3134.832
<b>15</b>	2554.597	2534.183	2614.449	2557.095	2586.719	2573.615	2664.980
<b>20</b>	2115.785	2042.146	2067.697	2052.258	2114.161	2048.474	2103.020
<b>25</b>	1712.417	1689.609	1616.984	1720.866	1730.385	1665.348	1636.292
<b>30</b>	1122.507	1266.024	1288.167	1267.669	1183.580	1287.317	1258.703
<b>35</b>	443.896	678.913	859.328	434.246	443.595	698.811	761.409
<b>40</b>	129.776	175.986	378.626	144.953	151.409	172.579	269.524
<b>45</b>	64.064	76.947	121.522	74.367	74.351	79.485	79.410
<b>50</b>	24.073	37.536	50.170	30.311	27.865	36.970	34.831
<b>55</b>	8.081	12.974	23.303	10.031	8.938	11.805	10.736
<b>60</b>	5.242	5.203	9.120	4.573	4.096	3.293	3.396

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00611\_9 ~ C08XXSQXT-30LXXK-WDEX-TSG-GL.IES****CANDELA TABULATION - (Cont.)**

<b>65</b>	4.666	3.983	4.768	3.034	2.827	2.276	1.974
<b>70</b>	5.110	5.095	5.344	2.456	2.639	2.527	2.202
<b>75</b>	5.204	6.348	4.798	1.692	1.896	2.240	2.463
<b>80</b>	7.051	6.614	7.575	1.730	1.334	1.615	1.635
<b>85</b>	9.564	9.832	8.700	1.419	1.702	1.363	1.353
<b>90</b>	12.598	12.118	11.595	0.000	0.000	0.000	0.000
<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

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00611\_9 ~ C08XXSQXT-30LXXK-WDEX-TSG-GL.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1047.05	N.A.	45.90
0-30	1810.21	N.A.	79.30
0-40	2187.95	N.A.	95.80
0-60	2268.17	N.A.	99.30
0-80	2276.23	N.A.	99.70
0-90	2281.9	N.A.	99.90
10-90	1966.8	N.A.	86.10
20-40	1140.91	N.A.	50.00
20-50	1208.93	N.A.	52.90
40-70	84.13	N.A.	3.70
60-80	8.06	N.A.	0.40
70-80	4.15	N.A.	0.20
80-90	5.67	N.A.	0.20
90-110	1.62	N.A.	0.10
90-120	1.62	N.A.	0.10
90-130	1.62	N.A.	0.10
90-150	1.62	N.A.	0.10
90-180	1.62	N.A.	0.10
110-180	0.00	N.A.	0.00
0-180	2283.52	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	315.10
10-20	731.94
20-30	763.16
30-40	377.74
40-50	68.02
50-60	12.19
60-70	3.92
70-80	4.15
80-90	5.67
90-100	1.62
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

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : SP-00611\_9 ~ C08XXSQXT-30LXXK-WDEX-TSG-GL.IES

## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

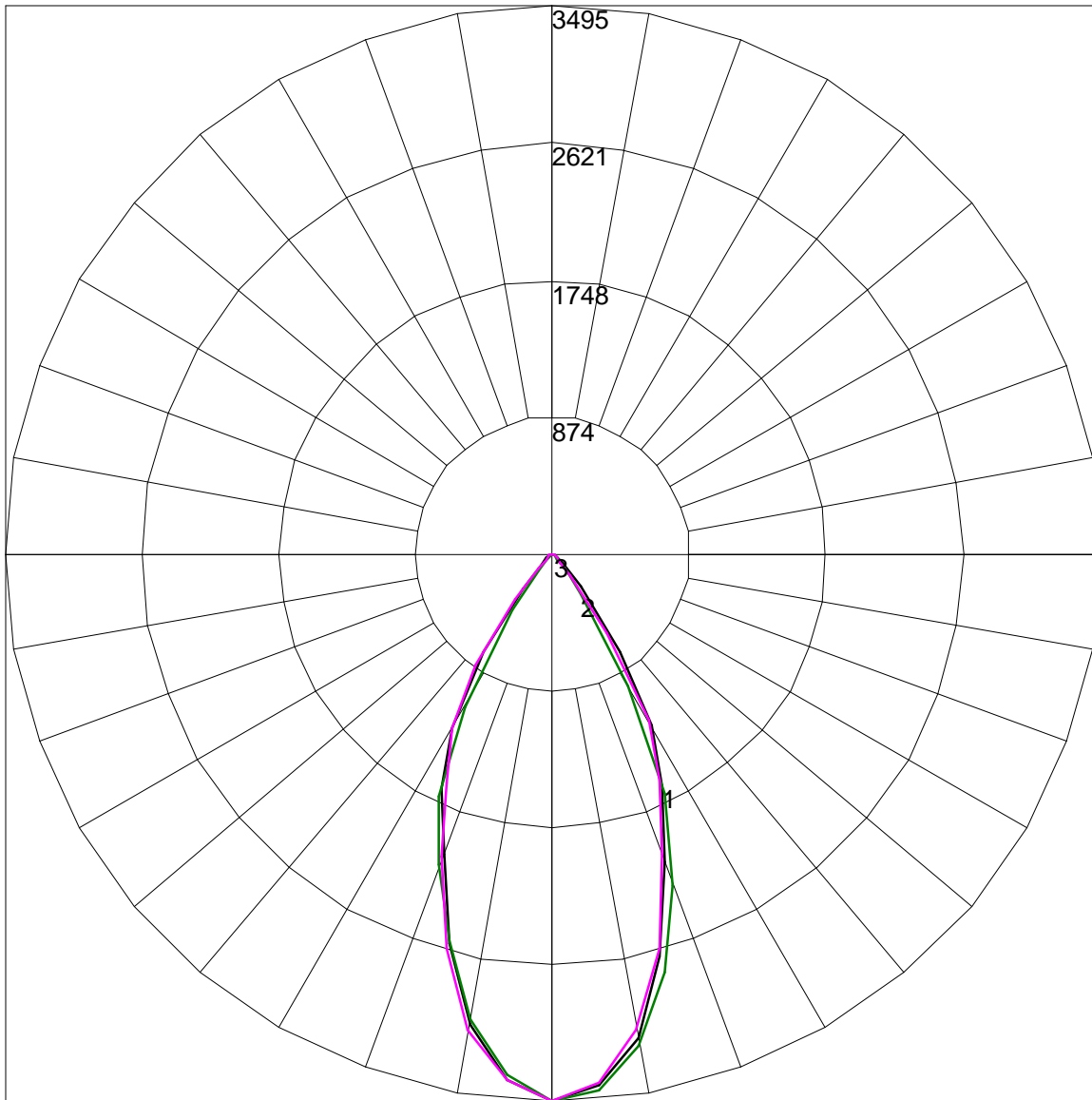
Effective Floor Cavity Reflectance 0.20

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

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : SP-00611\_9 ~ C08XXSQXT-30LXXK-WDEX-TSG-GL.IES

## POLAR GRAPH



Maximum Candela = 3495.071 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)