

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00611_6 ~ C08XXSQXT-30LXXK-NDEX-TSG-NL.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] SP-00611_6
[TESTLAB] VLS-245-981
[MANUFAC] Spectrum Lighting
[ISSUEDATE] 6/29/2017
[UPDATE] 2/2/2018
[LUMCAT] C08xxSQXT-30L-xxK-ND-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, Narrow Beam
[OTHER] Lower Trim, Semi-diffuse Clear Anodized
[OTHER] No Lens
[OTHER] 21.9 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	2951
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	91
Total Luminaire Watts	32.6
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.32
Spacing Criterion (90-270)	0.36
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

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Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	600	733	350
55	168	234	175
65	146	180	148
75	218	257	274
85	760	957	535

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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	11763.350	11763.350	11763.350	11763.350	11763.350	11763.350	11763.350	11763.350	11763.350	11763.350
5	8876.901	9263.672	9359.971	9773.261	9865.599	9999.297	10589.150	10747.070	11138.190	10977.490
10	5206.954	5557.241	5570.386	6002.375	5989.185	6436.633	7144.229	7268.177	7811.285	7508.826
15	2865.615	3088.703	3089.422	3267.137	3198.219	3515.239	3921.177	3969.064	4339.478	4142.031
20	1858.274	2051.868	2062.574	2044.539	1917.232	2088.974	2256.467	2221.493	2372.909	2359.993
25	1468.519	1545.546	1535.728	1571.496	1435.339	1529.047	1607.221	1527.053	1568.359	1605.757
30	1106.825	984.078	941.967	1180.926	1130.727	900.197	941.082	1177.168	1219.475	846.145
35	568.532	295.820	308.723	686.169	549.466	244.204	269.295	563.248	734.880	194.625
40	138.775	28.698	26.454	176.017	73.581	20.428	33.284	94.617	182.137	14.919
45	9.860	10.926	12.048	12.884	5.749	9.034	11.288	9.342	6.384	6.750
50	4.400	7.022	6.197	4.049	2.823	5.251	5.662	3.376	2.815	2.670
55	2.244	3.483	3.116	2.387	2.338	2.946	4.794	2.784	2.172	2.365
60	1.949	1.832	3.283	2.286	1.926	2.416	2.582	2.556	2.869	2.349
65	1.439	1.474	1.769	1.606	1.456	2.898	2.406	3.185	2.351	3.021
70	1.732	1.739	1.490	2.004	1.288	3.016	3.110	2.528	2.652	4.179
75	1.311	1.691	1.549	1.380	1.651	5.086	4.198	4.161	4.624	4.984
80	0.937	1.377	1.405	1.316	0.938	7.213	6.949	7.704	6.934	6.856
85	1.540	1.687	1.940	2.087	1.083	9.793	8.257	9.147	8.408	9.753
90	1.025	0.401	1.056	0.470	2.242	12.854	5.460	12.632	4.122	14.377
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	11763.350	11763.350	11763.350	11763.350	11763.350	11763.350	11763.350
5	11010.480	10675.670	10681.930	9595.751	9134.093	9136.668	8876.901
10	7519.831	6998.925	6947.860	5995.335	5495.666	5517.415	5206.954
15	4151.130	3771.172	3733.740	3290.608	3026.328	3020.366	2865.615
20	2348.595	2139.830	2122.675	2094.439	1988.605	1871.187	1858.274
25	1590.338	1490.540	1547.969	1603.174	1545.345	1449.633	1468.519
30	781.616	1071.836	1295.973	968.120	905.563	1140.202	1106.825
35	161.303	445.025	815.534	274.984	246.799	622.275	568.532
40	11.416	41.042	197.120	25.507	20.902	146.956	138.775
45	4.896	4.125	13.895	8.861	7.277	7.337	9.860
50	2.105	2.194	2.778	3.606	3.063	4.170	4.400
55	1.769	1.690	1.903	1.855	2.322	2.439	2.244
60	2.055	1.747	2.813	1.477	1.791	2.043	1.949

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65	4.231	2.931	3.039	1.995	1.819	2.100	1.439
70	2.844	4.243	3.542	1.396	1.754	1.441	1.732
75	4.980	4.179	5.264	1.344	1.660	1.167	1.311
80	7.066	7.857	7.955	1.349	1.182	1.386	0.937
85	10.388	10.240	8.049	1.251	0.873	1.171	1.540
90	3.816	14.394	9.583	0.309	1.224	0.642	1.025
95	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
105	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
115	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
125	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
135	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
145	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
155	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
165	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
175	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

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Zone	Lumens	%Lamp	%Fixt
0-20	1905.96	N.A.	64.60
0-30	2614.89	N.A.	88.60
0-40	2917.48	N.A.	98.90
0-60	2938.43	N.A.	99.60
0-80	2944.17	N.A.	99.80
0-90	2949.7	N.A.	100.00
10-90	2099.11	N.A.	71.10
20-40	1011.52	N.A.	34.30
20-50	1029.96	N.A.	34.90
40-70	23.28	N.A.	0.80
60-80	5.74	N.A.	0.20
70-80	3.41	N.A.	0.10
80-90	5.53	N.A.	0.20
90-110	1.45	N.A.	0.00
90-120	1.45	N.A.	0.00
90-130	1.45	N.A.	0.00
90-150	1.45	N.A.	0.00
90-180	1.45	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	2951.15	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	850.59
10-20	1055.37
20-30	708.92
30-40	302.59
40-50	18.44
50-60	2.50
60-70	2.33
70-80	3.41
80-90	5.53
90-100	1.45
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

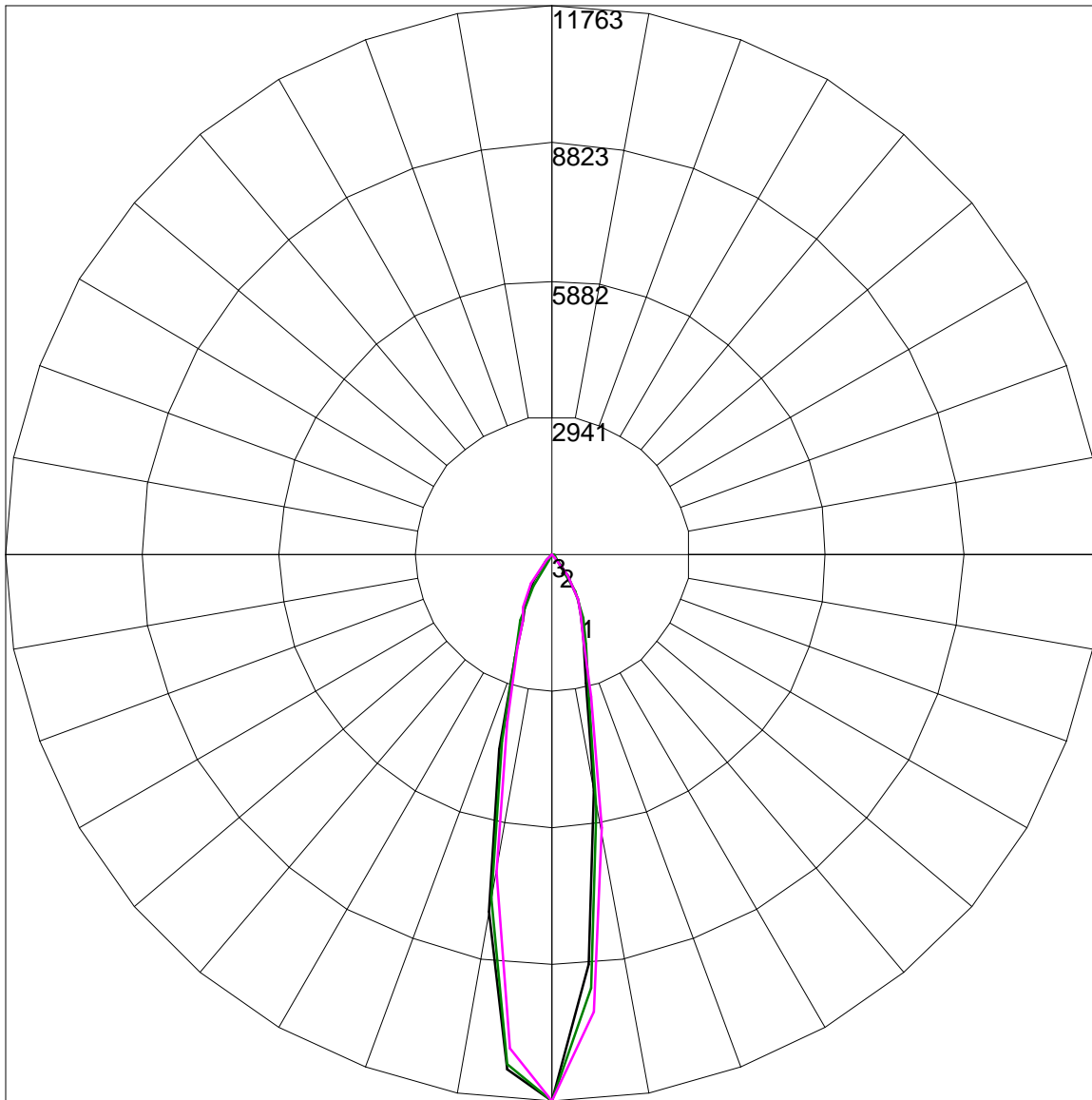
Effective Floor Cavity Reflectance 0.20

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	115	112	110	108	112	110	108	107	106	105	103	102	101	100	99	98	97	96
2	110	106	103	100	108	105	102	99	101	99	97	99	97	95	96	94	93	91
3	106	101	97	94	104	100	96	93	97	94	92	95	92	90	93	91	89	88
4	102	96	92	89	101	95	91	88	93	90	87	91	88	86	90	87	85	84
5	99	92	88	84	97	91	87	84	90	86	83	88	85	82	87	84	82	80
6	95	88	84	80	94	88	83	80	86	82	79	85	82	79	84	81	78	77
7	92	85	80	77	91	84	80	77	83	79	76	82	78	76	81	78	75	74
8	89	82	77	74	88	81	77	74	80	76	73	79	76	73	78	75	73	72
9	86	79	74	71	85	78	74	71	77	73	71	77	73	70	76	73	70	69
10	83	76	71	68	83	76	71	68	75	71	68	74	71	68	73	70	68	67

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POLAR GRAPH



Maximum Candela = 11763.35 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)