

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00611_6 ~ C08XXSQXT-20LXXK-NDEX-TSG-NL.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] SP-00611_6_M-20L
[TESTLAB] VLS-245-981
[MANUFAC] Spectrum Lighting
[ISSUE DATE] 6/29/2017
[UPDATE] 2/2/2018
[LUMCAT] C08xxSQXT-20L-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, scaled from 30L

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1968
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	91
Total Luminaire Watts	21.7
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	400	489	233
55	112	156	117
65	98	120	99
75	145	172	183
85	507	638	356

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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	7842.626	7842.626	7842.626	7842.626	7842.626	7842.626	7842.626	7842.626	7842.626	7842.626
5	5918.230	6176.090	6240.293	6515.833	6577.395	6666.531	7059.786	7165.072	7425.831	7318.693
10	3471.476	3705.013	3713.776	4001.783	3992.990	4291.303	4763.058	4845.694	5207.784	5006.134
15	1910.506	2059.238	2059.718	2178.200	2132.253	2343.610	2614.249	2646.175	2893.130	2761.492
20	1238.911	1367.980	1375.118	1363.094	1278.219	1392.719	1504.387	1481.069	1582.018	1573.407
25	979.062	1030.416	1023.870	1047.716	956.941	1019.416	1071.534	1018.086	1045.625	1070.558
30	737.920	656.085	628.009	787.323	753.856	600.161	627.419	784.818	813.024	564.125
35	379.040	197.223	205.826	457.469	366.329	162.811	179.539	375.517	489.945	129.756
40	92.521	19.133	17.637	117.351	49.056	13.619	22.190	63.081	121.431	9.946
45	6.574	7.284	8.032	8.590	3.833	6.023	7.526	6.228	4.256	4.500
50	2.933	4.682	4.132	2.699	1.882	3.501	3.775	2.251	1.877	1.780
55	1.496	2.322	2.077	1.591	1.559	1.964	3.196	1.856	1.448	1.577
60	1.299	1.221	2.189	1.524	1.284	1.611	1.721	1.704	1.913	1.566
65	0.959	0.983	1.179	1.071	0.971	1.932	1.604	2.123	1.567	2.014
70	1.155	1.159	0.993	1.336	0.859	2.011	2.073	1.685	1.768	2.786
75	0.874	1.127	1.033	0.920	1.101	3.391	2.799	2.774	3.083	3.323
80	0.625	0.918	0.937	0.877	0.625	4.809	4.633	5.136	4.623	4.571
85	1.027	1.125	1.293	1.391	0.722	6.529	5.505	6.098	5.606	6.502
90	0.683	0.267	0.704	0.313	1.495	8.570	3.640	8.422	2.748	9.585
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	7842.626	7842.626	7842.626	7842.626	7842.626	7842.626	7842.626
5	7340.687	7117.469	7121.643	6397.487	6089.700	6091.417	5918.230
10	5013.471	4666.183	4632.138	3997.090	3663.961	3678.461	3471.476
15	2767.558	2514.240	2489.284	2193.848	2017.653	2013.678	1910.506
20	1565.808	1426.625	1415.187	1396.362	1325.803	1247.520	1238.911
25	1060.278	993.743	1032.031	1068.836	1030.282	966.470	979.062
30	521.103	714.593	864.025	645.446	603.739	760.173	737.920
35	107.541	296.698	543.717	183.332	164.541	414.871	379.040
40	7.611	27.363	131.420	17.006	13.935	97.976	92.521
45	3.264	2.750	9.264	5.908	4.852	4.892	6.574
50	1.403	1.463	1.852	2.404	2.042	2.780	2.933
55	1.179	1.127	1.269	1.237	1.548	1.626	1.496
60	1.370	1.165	1.875	0.985	1.194	1.362	1.299

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65	2.821	1.954	2.026	1.330	1.213	1.400	0.959
70	1.896	2.829	2.361	0.931	1.169	0.961	1.155
75	3.320	2.786	3.510	0.896	1.107	0.778	0.874
80	4.711	5.238	5.304	0.899	0.788	0.924	0.625
85	6.926	6.827	5.366	0.834	0.582	0.781	1.027
90	2.544	9.596	6.389	0.206	0.816	0.428	0.683
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	1270.71	N.A.	64.60
0-30	1743.35	N.A.	88.60
0-40	1945.08	N.A.	98.90
0-60	1959.05	N.A.	99.60
0-80	1962.88	N.A.	99.80
0-90	1966.57	N.A.	100.00
10-90	1399.48	N.A.	71.10
20-40	674.38	N.A.	34.30
20-50	686.68	N.A.	34.90
40-70	15.52	N.A.	0.80
60-80	3.83	N.A.	0.20
70-80	2.27	N.A.	0.10
80-90	3.69	N.A.	0.20
90-110	0.97	N.A.	0.00
90-120	0.97	N.A.	0.00
90-130	0.97	N.A.	0.00
90-150	0.97	N.A.	0.00
90-180	0.97	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	1967.53	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	567.09
10-20	703.62
20-30	472.64
30-40	201.74
40-50	12.30
50-60	1.67
60-70	1.56
70-80	2.27
80-90	3.69
90-100	0.97
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

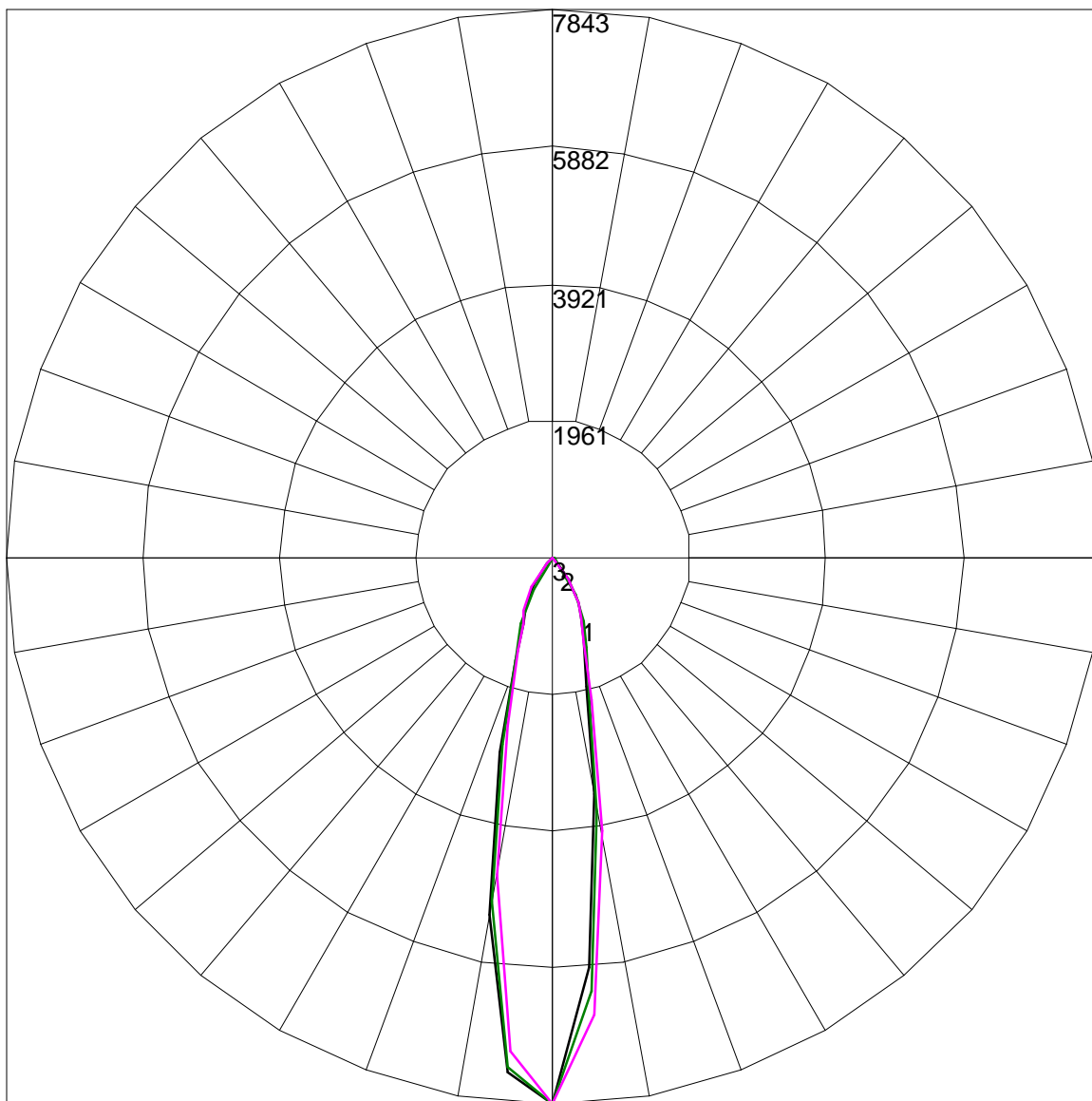
Effective Floor Cavity Reflectance 0.20

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	106	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	87
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	70	68	73	70	68	67

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POLAR GRAPH



Maximum Candela = 7842.626 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)