

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00611_14 ~ C08XXSQXT-20LXXK-XWEX-TSG-NL.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] SP-00611_14_M-20L
[TESTLAB] VLS-245-981
[MANUFAC] Spectrum Lighting
[ISSUEDATE] 6/29/2017
[UPDATE] 2/2/2018
[LUMCAT] C08xxSQXT-20L-xxK-XW-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, Xtra Wide Beam
[OTHER] Lower Trim, Semi-diffuse Clear Anodized
[OTHER] No Lens
[OTHER] 62.4 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, scaled from 30L

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1760
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	81
Total Luminaire Watts	21.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.98
Spacing Criterion (90-270)	0.96
Spacing Criterion (Diagonal)	0.88
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	5029	4133	4622
55	963	335	696
65	169	173	147
75	231	226	232
85	694	513	658

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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	2025.889	2025.889	2025.889	2025.889	2025.889	2025.889	2025.889	2025.889	2025.889	2025.889
5	1988.701	1978.997	1979.342	1993.243	2009.208	1999.035	2008.482	1999.751	2004.090	2010.993
10	1887.641	1877.765	1883.001	1897.471	1922.484	1915.645	1928.477	1919.444	1922.234	1932.577
15	1737.442	1743.277	1771.823	1753.371	1780.844	1783.096	1799.815	1779.955	1778.554	1802.222
20	1563.737	1657.986	1661.433	1604.064	1585.312	1611.269	1627.040	1592.323	1574.032	1629.901
25	1422.554	1452.643	1432.618	1462.470	1401.714	1442.124	1457.569	1399.226	1374.237	1443.499
30	1144.557	1034.162	971.249	1118.131	1164.749	1054.908	1049.562	1116.970	1128.432	1035.214
35	671.457	369.729	434.918	636.186	693.086	416.910	370.103	589.507	680.003	410.680
40	251.413	148.087	150.452	204.272	191.987	160.576	168.079	186.435	200.263	180.791
45	82.670	69.433	67.936	71.893	75.976	73.972	76.943	78.459	77.318	85.419
50	39.505	21.632	20.882	29.122	33.752	23.441	25.282	31.990	30.732	24.735
55	12.845	4.752	4.471	6.626	9.284	5.616	6.351	9.862	7.047	4.158
60	2.554	2.399	1.888	1.825	2.524	3.436	3.977	3.874	2.739	2.416
65	1.661	1.857	1.695	1.379	1.449	3.342	3.902	3.334	2.848	3.022
70	1.220	1.075	1.750	1.239	1.241	3.471	3.926	4.018	3.534	3.751
75	1.387	1.217	1.357	1.158	1.396	4.852	4.652	5.048	4.585	3.961
80	1.149	1.397	1.357	1.061	1.421	7.531	6.032	6.339	6.078	5.524
85	1.407	1.099	1.040	0.852	1.333	7.661	8.916	8.010	8.014	7.018
90	1.135	0.000	0.000	0.000	1.090	10.028	0.000	0.000	0.000	9.888
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	2025.889	2025.889	2025.889	2025.889	2025.889	2025.889	2025.889
5	2007.639	2001.603	1988.553	1969.370	1972.425	1975.375	1988.701
10	1928.143	1910.434	1880.691	1859.750	1859.786	1872.906	1887.641
15	1793.424	1759.925	1714.468	1707.460	1704.232	1710.064	1737.442
20	1619.566	1555.521	1510.135	1605.745	1586.314	1530.211	1563.737
25	1437.753	1367.880	1366.698	1455.745	1437.953	1385.785	1422.554
30	975.953	1110.006	1161.970	1054.713	1048.469	1113.819	1144.557
35	397.128	630.821	705.687	333.373	376.851	659.752	671.457
40	193.180	194.314	248.828	155.006	148.213	220.058	251.413
45	89.043	94.079	85.652	74.170	72.110	81.347	82.670
50	21.595	37.559	38.013	21.572	23.787	35.679	39.505
55	3.948	8.608	10.177	4.446	4.814	8.546	12.845
60	2.771	2.803	2.991	2.253	2.275	2.695	2.554

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65	3.241	2.634	2.614	1.715	1.707	2.025	1.661
70	3.551	3.125	3.292	1.458	1.677	1.143	1.220
75	4.167	4.464	4.817	1.437	1.591	1.673	1.387
80	6.016	5.958	5.547	1.340	1.425	1.233	1.149
85	7.685	6.698	7.399	1.365	1.039	1.352	1.407
90	9.986	9.044	0.000	0.000	1.160	1.346	1.135
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	680.52	N.A.	38.70
0-30	1313.4	N.A.	74.60
0-40	1668.2	N.A.	94.80
0-60	1749.15	N.A.	99.40
0-80	1754.84	N.A.	99.70
0-90	1759.01	N.A.	100.00
10-90	1571.71	N.A.	89.30
20-40	987.68	N.A.	56.10
20-50	1058.63	N.A.	60.20
40-70	83.42	N.A.	4.70
60-80	5.69	N.A.	0.30
70-80	3.22	N.A.	0.20
80-90	4.17	N.A.	0.20
90-110	0.75	N.A.	0.00
90-120	0.75	N.A.	0.00
90-130	0.75	N.A.	0.00
90-150	0.75	N.A.	0.00
90-180	0.75	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	1759.76	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	187.30
10-20	493.22
20-30	632.88
30-40	354.80
40-50	70.95
50-60	10.00
60-70	2.48
70-80	3.22
80-90	4.17
90-100	0.75
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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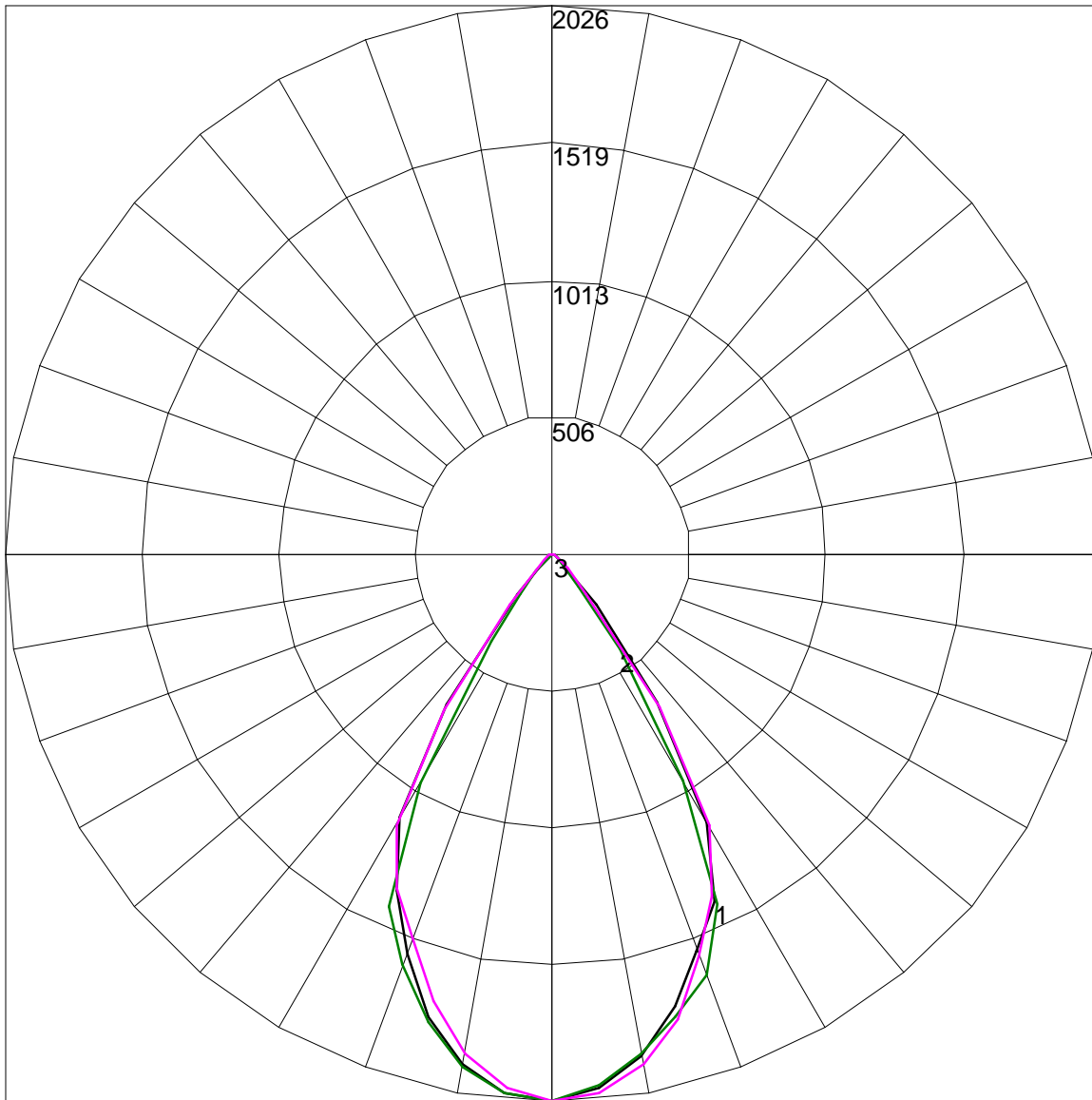
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	94
2	108	103	99	96	106	102	98	95	98	95	93	95	93	91	93	91	89	87
3	103	96	92	88	101	95	91	87	92	89	86	90	87	84	88	85	83	81
4	98	90	85	81	96	89	84	80	87	83	79	85	81	78	83	80	78	76
5	93	85	79	75	91	84	78	74	82	77	74	80	76	73	79	75	72	71
6	88	80	74	70	87	79	73	69	77	72	69	76	72	68	75	71	68	67
7	84	75	69	65	83	74	69	65	73	68	64	72	67	64	71	67	64	62
8	80	71	65	61	79	70	65	61	69	64	60	68	63	60	67	63	60	59
9	76	67	61	57	75	66	61	57	65	60	57	65	60	57	64	59	56	55
10	73	63	58	54	72	63	57	54	62	57	54	61	57	53	61	56	53	52

POLAR GRAPH



Maximum Candela = 2025.889 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)