

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00611_2 ~ C08XXSQXT-20LXXK-MDEX-TSG-NL.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] SP-00611_2_M-20L
[TESTLAB] VLS-245-981
[MANUFAC] Spectrum Lighting
[ISSUE DATE] 6/29/2017
[UPDATE] 2/2/2018
[LUMCAT] C08xxSQXT-20L-xxK-MD-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, Medium Beam
[OTHER] Lower Trim, Semi-diffuse Clear Anodized
[OTHER] No Lens
[OTHER] 40 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	1705
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	79
Total Luminaire Watts	21.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.58
Spacing Criterion (90-270)	0.62
Spacing Criterion (Diagonal)	0.70
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	1739	1721	1756
55	349	235	301
65	140	139	180
75	213	219	323
85	363	546	352

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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	3193.110	3193.110	3193.110	3193.110	3193.110	3193.110	3193.110	3193.110	3193.110	3193.110
5	2930.561	2983.957	2996.765	3038.809	3042.747	3067.801	3107.901	3126.134	3151.348	3134.956
10	2449.598	2528.666	2545.682	2619.100	2619.410	2686.551	2773.845	2792.882	2842.184	2793.962
15	1894.064	2000.128	2017.370	2073.972	2053.080	2140.065	2253.741	2256.712	2325.642	2257.338
20	1436.124	1567.013	1608.893	1589.428	1528.390	1623.780	1726.982	1701.423	1757.199	1727.041
25	1108.507	1190.318	1189.458	1220.509	1140.822	1226.488	1297.460	1263.224	1287.437	1274.001
30	767.611	743.233	765.140	867.084	840.728	735.339	769.901	930.215	937.950	705.527
35	385.379	279.414	237.194	486.794	390.136	217.045	246.148	431.418	558.224	212.365
40	117.691	58.747	62.753	171.388	99.408	57.778	66.008	111.624	181.361	50.682
45	28.579	28.797	28.289	32.388	28.868	26.895	30.730	32.051	30.210	24.572
50	12.211	10.918	10.013	14.204	12.654	9.545	11.889	14.131	13.556	8.730
55	4.656	3.815	3.138	4.508	4.009	3.474	4.551	4.882	4.602	2.889
60	1.956	1.473	2.435	1.475	1.704	2.060	3.321	3.082	1.912	2.242
65	1.375	1.009	1.369	1.306	1.768	2.192	2.515	2.618	2.165	2.142
70	1.330	1.424	1.808	1.325	1.357	2.963	3.005	2.239	2.775	3.266
75	1.282	1.025	1.318	1.251	1.942	4.145	2.753	3.899	3.162	3.710
80	1.449	0.844	1.376	1.272	0.866	5.804	5.746	4.541	5.269	6.090
85	0.735	0.997	1.107	1.089	0.713	6.355	7.476	5.404	6.998	7.279
90	1.501	0.597	1.031	0.550	0.586	8.774	4.553	7.363	3.842	8.630
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	3193.110	3193.110	3193.110	3193.110	3193.110	3193.110	3193.110
5	3135.302	3094.398	3097.476	2999.977	2946.138	2957.144	2930.561
10	2791.422	2712.895	2711.696	2571.234	2483.095	2488.712	2449.598
15	2257.329	2156.180	2159.808	2039.070	1946.244	1923.064	1894.064
20	1712.988	1616.658	1622.017	1601.215	1525.848	1442.660	1436.124
25	1248.258	1190.922	1232.505	1243.659	1176.075	1102.187	1108.507
30	703.231	835.885	946.243	787.233	704.259	798.997	767.611
35	154.827	355.571	570.500	235.113	238.491	418.252	385.379
40	50.765	81.345	193.800	60.500	55.148	116.846	117.691
45	23.102	24.756	33.421	30.226	26.707	29.483	28.579
50	8.133	10.320	15.446	11.584	10.272	13.103	12.211
55	2.063	3.883	5.174	3.438	3.406	3.939	4.656
60	1.896	2.717	2.432	1.968	2.107	2.084	1.956

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65	2.291	2.053	2.517	1.248	1.432	1.706	1.375
70	2.711	2.929	2.659	0.959	1.345	1.486	1.330
75	4.023	4.061	3.520	0.990	1.364	1.077	1.282
80	4.721	5.161	4.945	1.347	1.103	1.419	1.449
85	7.350	7.941	7.726	0.810	1.207	0.914	0.735
90	4.445	8.382	4.564	0.456	1.392	0.791	1.501
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	867.67	N.A.	50.90
0-30	1418.75	N.A.	83.20
0-40	1659.26	N.A.	97.30
0-60	1695.3	N.A.	99.40
0-80	1700.00	N.A.	99.70
0-90	1704.05	N.A.	99.90
10-90	1425.45	N.A.	83.60
20-40	791.60	N.A.	46.40
20-50	822.84	N.A.	48.30
40-70	38.02	N.A.	2.20
60-80	4.71	N.A.	0.30
70-80	2.72	N.A.	0.20
80-90	4.05	N.A.	0.20
90-110	0.98	N.A.	0.10
90-120	0.98	N.A.	0.10
90-130	0.98	N.A.	0.10
90-150	0.98	N.A.	0.10
90-180	0.98	N.A.	0.10
110-180	0.00	N.A.	0.00
0-180	1705.04	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	278.60
10-20	589.07
20-30	551.08
30-40	240.52
40-50	31.24
50-60	4.79
60-70	1.98
70-80	2.72
80-90	4.05
90-100	0.98
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

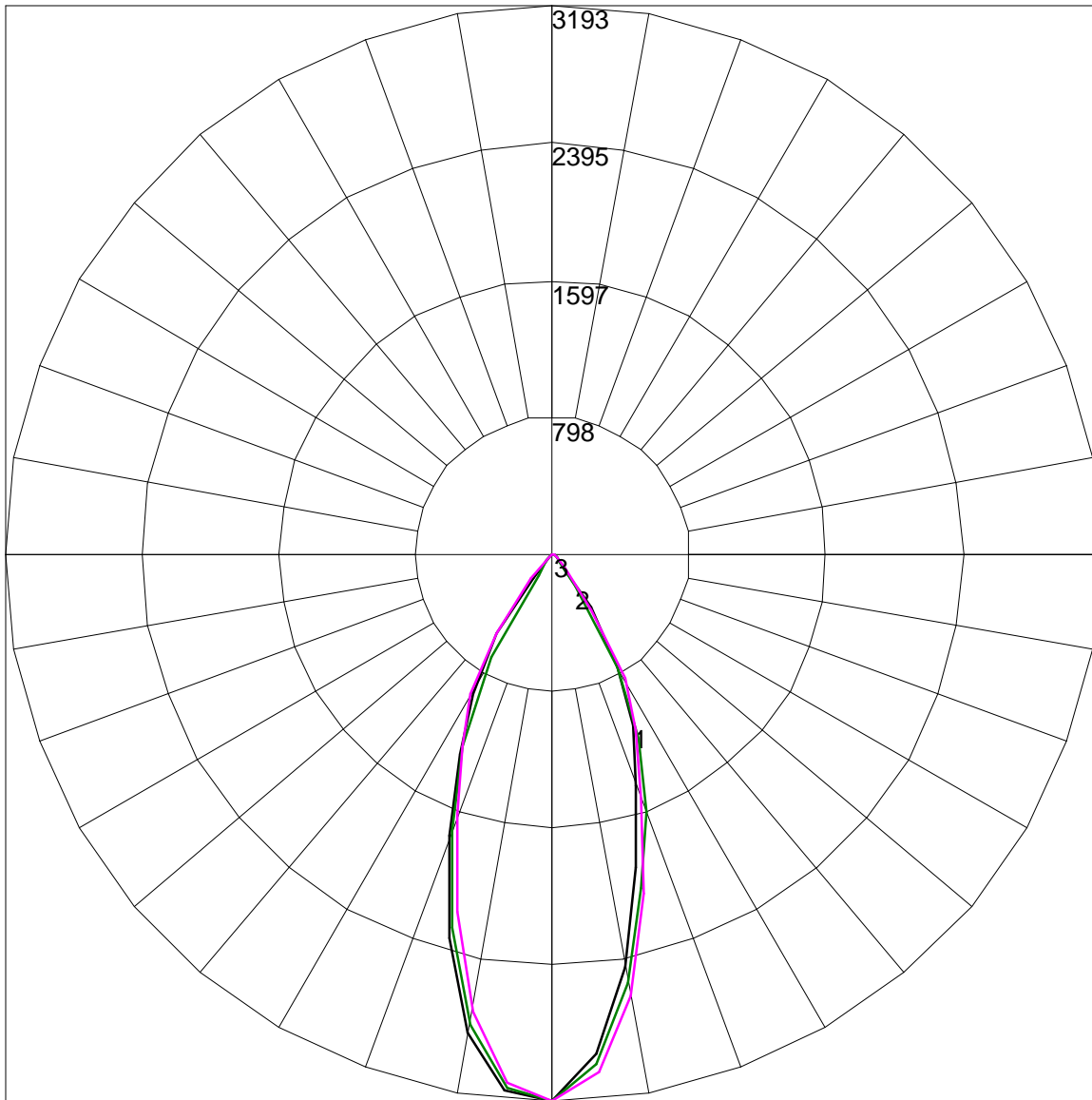
Effective Floor Cavity Reflectance 0.20

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	112	109	107	105	105	104	102	102	100	99	98	97	96	94
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	92	91	89
3	104	99	94	91	102	97	93	90	95	91	88	92	89	87	90	88	86	84
4	100	93	88	84	98	92	87	84	90	86	83	88	85	82	86	83	81	80
5	96	88	83	79	94	87	82	79	85	81	78	84	80	77	82	79	77	75
6	91	84	78	74	90	83	78	74	81	77	74	80	76	73	79	75	73	71
7	88	79	74	70	86	79	74	70	78	73	70	76	72	69	75	72	69	68
8	84	76	70	67	83	75	70	66	74	69	66	73	69	66	72	68	66	64
9	81	72	67	63	80	72	67	63	71	66	63	70	66	63	69	65	63	61
10	77	69	64	60	77	68	63	60	68	63	60	67	63	60	66	62	60	58

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POLAR GRAPH



Maximum Candela = 3193.11 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)