

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00611_7 ~ C08XXSQXT-30LXXK-NDEX-TSG-SO.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] SP-00611_7
[TESTLAB] VLS-245-981
[MANUFAC] Spectrum Lighting
[ISSUE DATE] 6/29/2017
[UPDATE] 2/2/2018
[LUMCAT] C08xxSQXT-30L-xxK-ND-EX-TSG-SO
[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] Solite Lens, Regressed in Lower Trim
[OTHER] 25.4 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	2714
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	83
Total Luminaire Watts	32.6
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.40
Spacing Criterion (90-270)	0.48
Spacing Criterion (Diagonal)	0.48
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	3993	1621	5103
55	522	433	388
65	213	341	297
75	214	270	232
85	561	624	709

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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	8702.020	8702.020	8702.020	8702.020	8702.020	8702.020	8702.020	8702.020	8702.020	8702.020
5	7343.516	7613.814	7718.958	8027.171	8131.531	8146.300	8181.066	8020.716	8061.954	7831.880
10	5033.743	5366.255	5487.401	5924.773	6025.256	6087.234	6122.063	5864.035	5935.253	5605.420
15	3089.079	3341.186	3423.882	3762.798	3808.704	3866.359	3884.320	3666.326	3733.676	3483.023
20	1937.703	2107.505	2157.330	2320.860	2326.853	2369.765	2376.039	2250.207	2291.881	2191.570
25	1337.068	1405.343	1413.518	1547.235	1532.304	1536.286	1526.347	1497.773	1543.399	1514.882
30	917.354	800.148	771.849	1029.197	1047.730	921.732	877.111	995.100	1110.500	973.717
35	508.961	321.798	288.320	538.301	617.490	404.699	358.129	535.880	713.566	457.076
40	206.856	97.610	82.931	202.356	272.221	113.496	92.929	201.576	349.011	148.905
45	65.635	29.226	26.639	58.858	83.882	23.796	21.132	51.118	130.671	46.993
50	18.234	11.627	11.418	17.923	19.377	9.594	9.769	13.835	41.117	18.952
55	6.961	5.729	5.771	6.645	5.176	6.476	4.706	6.853	12.135	9.387
60	4.025	3.547	2.780	4.302	2.856	4.192	3.653	4.683	7.434	5.378
65	2.095	3.322	3.346	1.315	2.918	3.221	3.666	4.682	4.466	5.266
70	1.875	2.327	2.003	1.861	1.049	4.073	3.760	3.988	3.663	4.039
75	1.285	1.539	1.625	1.637	1.398	4.286	3.785	3.409	6.071	6.005
80	1.859	0.753	1.536	1.433	1.068	5.228	6.030	5.355	6.025	5.471
85	1.137	1.439	1.264	1.237	1.437	9.093	6.994	8.416	9.003	8.863
90	1.245	0.325	1.031	0.547	1.375	10.489	3.699	9.733	4.011	13.250
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	8702.020	8702.020	8702.020	8702.020	8702.020	8702.020	8702.020
5	7758.939	7431.549	7336.755	7201.797	7172.149	7385.375	7343.516
10	5524.998	5111.881	5015.687	4876.836	4833.994	5081.928	5033.743
15	3434.127	3126.247	3061.112	2975.214	2950.700	3131.035	3089.079
20	2165.828	1964.801	1924.962	1898.929	1894.699	1981.734	1937.703
25	1490.364	1368.377	1344.683	1306.696	1289.749	1378.088	1337.068
30	930.555	942.505	947.927	768.689	736.586	935.851	917.354
35	414.108	523.097	564.505	319.034	290.401	509.040	508.961
40	131.534	209.858	265.153	94.188	80.149	199.723	206.856
45	41.115	66.211	95.306	29.357	22.685	55.481	65.635
50	15.381	20.654	26.947	11.340	9.231	15.522	18.234
55	8.739	10.139	11.652	5.213	4.760	7.178	6.961
60	5.822	6.565	5.898	2.592	2.687	3.458	4.025

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65	5.890	6.217	5.917	2.689	2.094	2.920	2.095
70	5.290	4.055	4.154	1.984	1.311	1.639	1.875
75	4.502	4.955	4.134	1.367	2.008	2.456	1.285
80	7.705	6.864	6.299	1.284	0.876	2.013	1.859
85	8.498	9.429	9.109	1.768	2.107	1.376	1.137
90	4.178	10.610	10.304	0.523	1.820	0.394	1.245
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	1655.26	N.A.	61.00
0-30	2328.66	N.A.	85.80
0-40	2637.24	N.A.	97.20
0-60	2700.98	N.A.	99.50
0-80	2708.09	N.A.	99.80
0-90	2713.13	N.A.	100.00
10-90	2044.58	N.A.	75.30
20-40	981.98	N.A.	36.20
20-50	1037.73	N.A.	38.20
40-70	67.41	N.A.	2.50
60-80	7.11	N.A.	0.30
70-80	3.44	N.A.	0.10
80-90	5.04	N.A.	0.20
90-110	1.26	N.A.	0.00
90-120	1.26	N.A.	0.00
90-130	1.26	N.A.	0.00
90-150	1.26	N.A.	0.00
90-180	1.26	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	2714.39	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	668.54
10-20	986.72
20-30	673.40
30-40	308.59
40-50	55.75
50-60	7.99
60-70	3.67
70-80	3.44
80-90	5.04
90-100	1.26
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

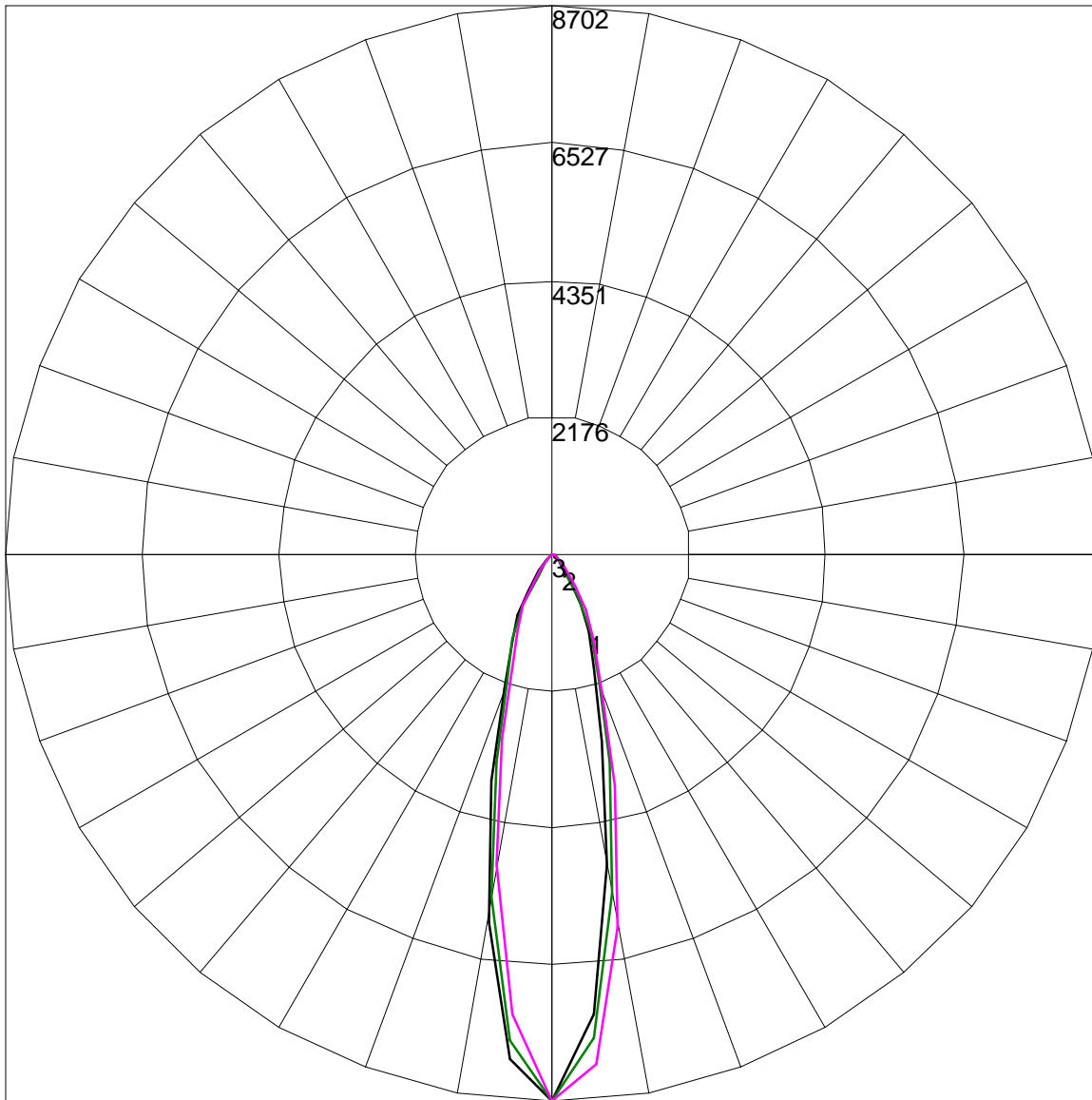
Effective Floor Cavity Reflectance 0.20

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	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95
2	110	106	102	99	108	104	101	98	101	98	96	98	96	94	95	94	92	91
3	105	100	96	93	104	99	95	92	96	93	90	94	91	89	92	90	88	86
4	101	95	91	87	100	94	90	87	92	88	86	90	87	85	88	86	84	82
5	98	91	86	82	96	90	85	82	88	84	81	86	83	81	85	82	80	79
6	94	87	82	78	93	86	81	78	84	80	77	83	80	77	82	79	76	75
7	90	83	78	74	89	82	78	74	81	77	74	80	76	74	79	76	73	72
8	87	79	75	71	86	79	74	71	78	74	71	77	73	70	76	73	70	69
9	84	76	71	68	83	76	71	68	75	71	68	74	70	68	73	70	67	66
10	81	73	69	66	80	73	68	65	72	68	65	72	68	65	71	67	65	64

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POLAR GRAPH



Maximum Candela = 8702.02 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)