

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00611_2 ~ C08XXSQXT-30LXXK-MDEX-TSG-NL.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] SP-00611_2
[TESTLAB] VLS-245-981
[MANUFAC] Spectrum Lighting
[ISSUE DATE] 6/29/2017
[UPDATE] 2/2/2018
[LUMCAT] C08xxSQXT-30L-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

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2556
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	78
Total Luminaire Watts	32.6
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	2607	2580	2633
55	523	353	451
65	210	209	270
75	319	328	484
85	544	819	528

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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	4787.271	4787.271	4787.271	4787.271	4787.271	4787.271	4787.271	4787.271	4787.271	4787.271
5	4393.644	4473.699	4492.901	4555.935	4561.840	4599.402	4659.522	4686.858	4724.660	4700.084
10	3672.560	3791.104	3816.615	3926.687	3927.152	4027.813	4158.688	4187.230	4261.145	4188.848
15	2839.676	2998.692	3024.543	3109.403	3078.081	3208.493	3378.922	3383.377	3486.719	3384.315
20	2153.110	2349.345	2412.133	2382.950	2291.440	2434.453	2589.179	2550.859	2634.482	2589.267
25	1661.929	1784.584	1783.295	1829.849	1710.378	1838.813	1945.217	1893.889	1930.191	1910.047
30	1150.841	1114.292	1147.136	1299.976	1260.462	1102.457	1154.274	1394.625	1406.222	1057.761
35	577.780	418.911	355.613	729.826	584.912	325.405	369.037	646.804	836.918	318.388
40	176.449	88.077	94.082	256.953	149.037	86.623	98.962	167.353	271.905	75.985
45	42.847	43.174	42.413	48.558	43.280	40.322	46.072	48.053	45.293	36.840
50	18.308	16.369	15.012	21.296	18.972	14.311	17.824	21.186	20.324	13.089
55	6.980	5.720	4.704	6.758	6.010	5.209	6.823	7.320	6.899	4.332
60	2.933	2.208	3.651	2.212	2.554	3.089	4.979	4.620	2.867	3.362
65	2.061	1.513	2.053	1.958	2.651	3.287	3.771	3.925	3.246	3.212
70	1.994	2.135	2.711	1.986	2.035	4.443	4.505	3.357	4.160	4.897
75	1.922	1.536	1.976	1.875	2.912	6.214	4.127	5.845	4.741	5.562
80	2.172	1.266	2.063	1.907	1.298	8.701	8.614	6.808	7.900	9.131
85	1.102	1.495	1.659	1.632	1.069	9.527	11.208	8.102	10.492	10.913
90	2.251	0.895	1.546	0.824	0.879	13.154	6.826	11.039	5.760	12.939
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	4787.271	4787.271	4787.271	4787.271	4787.271	4787.271	4787.271
5	4700.603	4639.278	4643.892	4497.716	4416.998	4433.500	4393.644
10	4185.040	4067.309	4065.511	3854.923	3722.781	3731.203	3672.560
15	3384.302	3232.653	3238.093	3057.077	2917.907	2883.154	2839.676
20	2568.198	2423.775	2431.810	2400.622	2287.628	2162.908	2153.110
25	1871.452	1785.490	1847.834	1864.556	1763.231	1652.454	1661.929
30	1054.319	1253.201	1418.655	1180.260	1055.861	1197.897	1150.841
35	232.124	533.090	855.323	352.493	357.558	627.065	577.780
40	76.110	121.957	290.555	90.705	82.681	175.182	176.449
45	34.636	37.116	50.106	45.317	40.041	44.203	42.847
50	12.193	15.473	23.157	17.367	15.400	19.644	18.308
55	3.093	5.821	7.757	5.154	5.107	5.906	6.980
60	2.842	4.074	3.646	2.951	3.159	3.125	2.933

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65	3.435	3.078	3.773	1.871	2.147	2.558	2.061
70	4.065	4.392	3.986	1.438	2.016	2.228	1.994
75	6.031	6.089	5.277	1.484	2.045	1.614	1.922
80	7.078	7.737	7.414	2.019	1.654	2.127	2.172
85	11.019	11.905	11.583	1.214	1.810	1.370	1.102
90	6.664	12.567	6.842	0.684	2.087	1.186	2.251
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	1300.85	N.A.	50.90
0-30	2127.06	N.A.	83.20
0-40	2487.65	N.A.	97.30
0-60	2541.67	N.A.	99.40
0-80	2548.73	N.A.	99.70
0-90	2554.8	N.A.	99.90
10-90	2137.11	N.A.	83.60
20-40	1186.8	N.A.	46.40
20-50	1233.64	N.A.	48.30
40-70	56.99	N.A.	2.20
60-80	7.06	N.A.	0.30
70-80	4.08	N.A.	0.20
80-90	6.07	N.A.	0.20
90-110	1.47	N.A.	0.10
90-120	1.47	N.A.	0.10
90-130	1.47	N.A.	0.10
90-150	1.47	N.A.	0.10
90-180	1.47	N.A.	0.10
110-180	0.00	N.A.	0.00
0-180	2556.28	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	417.69
10-20	883.16
20-30	826.21
30-40	360.59
40-50	46.84
50-60	7.18
60-70	2.97
70-80	4.08
80-90	6.07
90-100	1.47
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

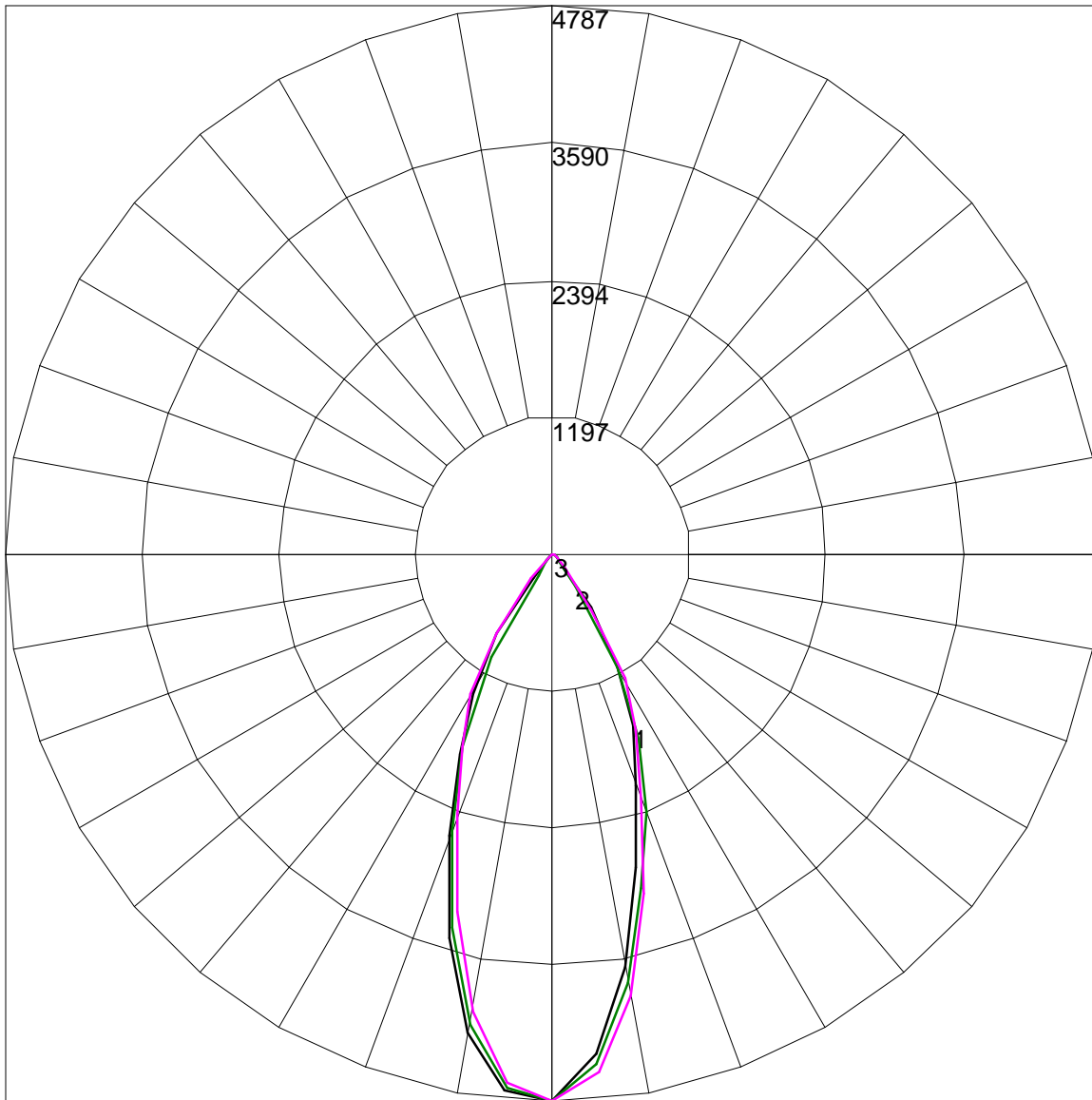
Effective Floor Cavity Reflectance 0.20

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 = 4787.271 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)