

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00594 ~ DC03XXSQXT-7LXXK-OSDEX-MWIMW.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] SP-00594_M-7L
[TESTLAB] VLS-245-981
[MANUFAC] Spectrum Lighting
[ISSUE DATE] 7/20/2017
[UPDATE] 9/14/2017
[LUMCAT] DC03xxSQXT-7L-xxK-OSD-MWI
[LUMINAIRE] Nom. 3" Square, LED Decorative Cylinder Downlight
[OTHER] Regressed Open Sphere Diffuser
[OTHER] Data applicable to 12"H, 18"H, and 24"H Cylinders
[OTHER] Matte White interior finish
[OTHER] Exterior finish not relevant to optical performance
[OTHER] 37.8 Degree Beam Angle
[LAMPCAT] N/A, 19mm LES
[LAMPCAT] N/A, 83 CRI
[OTHER] Total Luminaire Watts is approximate
[OTHER] LEDXT lumen output is the same for all available CCT's
[OTHER] This report prepared by Spectrum Lighting, scaled from 13L

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	245
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	39
Total Luminaire Watts	6.2
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.64
Spacing Criterion (90-270)	0.66
Spacing Criterion (Diagonal)	0.64
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.25 ft
Luminous Width (90-270)	0.25 ft
Luminous Height	0.00 ft

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Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	9351	9656	9107
55	6757	6343	6719
65	4756	4261	5004
75	3693	3539	3529
85	3678	4132	4381

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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	320.095	320.095	320.095	320.095	320.095	320.095	320.095	320.095	320.095	320.095
5	318.833	321.914	319.836	320.035	320.118	317.212	319.389	316.136	314.222	312.987
10	292.035	298.605	297.907	299.862	295.238	286.892	288.812	280.863	278.725	275.280
15	226.880	236.680	236.006	239.042	228.780	218.492	221.743	211.842	209.667	204.487
20	150.606	160.809	159.719	161.082	152.216	143.983	146.949	139.350	136.265	135.206
25	90.618	98.962	98.097	97.963	90.928	89.276	92.130	88.409	84.235	88.137
30	63.253	68.437	68.005	66.341	61.382	64.633	68.986	66.703	62.492	67.853
35	55.067	56.635	57.360	55.824	53.616	56.907	58.347	58.377	55.406	59.531
40	48.154	49.523	47.887	48.217	46.006	47.803	48.050	49.473	48.705	51.537
45	38.428	40.275	39.682	38.952	37.425	36.374	39.502	38.686	38.149	40.639
50	28.883	31.502	29.863	29.534	29.262	27.508	30.146	28.633	28.262	29.783
55	22.524	23.518	21.145	22.509	22.399	21.643	22.058	20.857	22.942	22.247
60	16.764	17.070	15.628	16.771	16.306	15.893	15.360	15.139	17.234	17.314
65	11.682	12.022	10.467	12.115	12.292	11.209	11.445	11.514	12.104	11.990
70	8.136	9.217	7.431	8.262	8.692	8.473	7.902	7.680	8.312	7.978
75	5.555	5.303	5.324	4.675	5.308	5.284	6.107	5.819	5.821	5.735
80	3.457	3.763	3.339	4.260	2.925	3.427	3.866	3.661	3.518	3.386
85	1.863	1.711	2.093	2.308	2.219	2.652	2.478	2.604	2.295	2.056
90	1.360	1.027	1.319	1.347	1.147	1.510	1.510	1.443	1.586	1.872
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	320.095	320.095	320.095	320.095	320.095	320.095	320.095
5	315.894	313.116	314.944	317.240	318.900	318.895	318.833
10	279.635	274.398	277.294	288.305	290.363	293.403	292.035
15	212.422	207.181	207.423	225.091	224.314	230.522	226.880
20	141.563	137.552	135.972	152.265	152.529	155.886	150.606
25	92.777	91.096	87.308	97.781	98.030	98.398	90.618
30	72.657	71.475	66.844	72.178	72.194	71.058	63.253
35	62.577	61.581	58.634	62.155	62.944	61.373	55.067
40	52.322	52.690	50.816	53.650	53.625	52.545	48.154
45	42.676	42.795	40.241	43.901	42.869	41.808	38.428

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CANDELA TABULATION - (Cont.)

50	30.868	31.777	31.753	32.518	31.463	31.408	28.883
55	22.632	22.885	24.404	23.642	23.281	23.515	22.524
60	17.397	16.512	18.265	17.645	17.238	17.062	16.764
65	11.843	12.396	12.833	12.285	11.990	12.324	11.682
70	8.373	9.189	9.220	8.355	8.476	8.589	8.136
75	5.910	6.099	5.754	5.424	4.897	5.939	5.555
80	3.930	3.677	4.012	3.437	3.204	3.367	3.457
85	2.368	2.959	2.288	2.316	2.062	2.205	1.863
90	1.414	1.360	1.250	1.480	1.157	0.881	1.360
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	89.83	N.A.	36.70
0-30	135.36	N.A.	55.30
0-40	172.08	N.A.	70.30
0-60	223.58	N.A.	91.40
0-80	241.77	N.A.	98.80
0-90	244.36	N.A.	99.80
10-90	215.10	N.A.	87.90
20-40	82.24	N.A.	33.60
20-50	113.16	N.A.	46.20
40-70	63.61	N.A.	26.00
60-80	18.19	N.A.	7.40
70-80	6.09	N.A.	2.50
80-90	2.59	N.A.	1.10
90-110	0.37	N.A.	0.20
90-120	0.37	N.A.	0.20
90-130	0.37	N.A.	0.20
90-150	0.37	N.A.	0.20
90-180	0.37	N.A.	0.20
110-180	0.00	N.A.	0.00
0-180	244.73	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	29.26
10-20	60.58
20-30	45.53
30-40	36.72
40-50	30.92
50-60	20.59
60-70	12.10
70-80	6.09
80-90	2.59
90-100	0.37
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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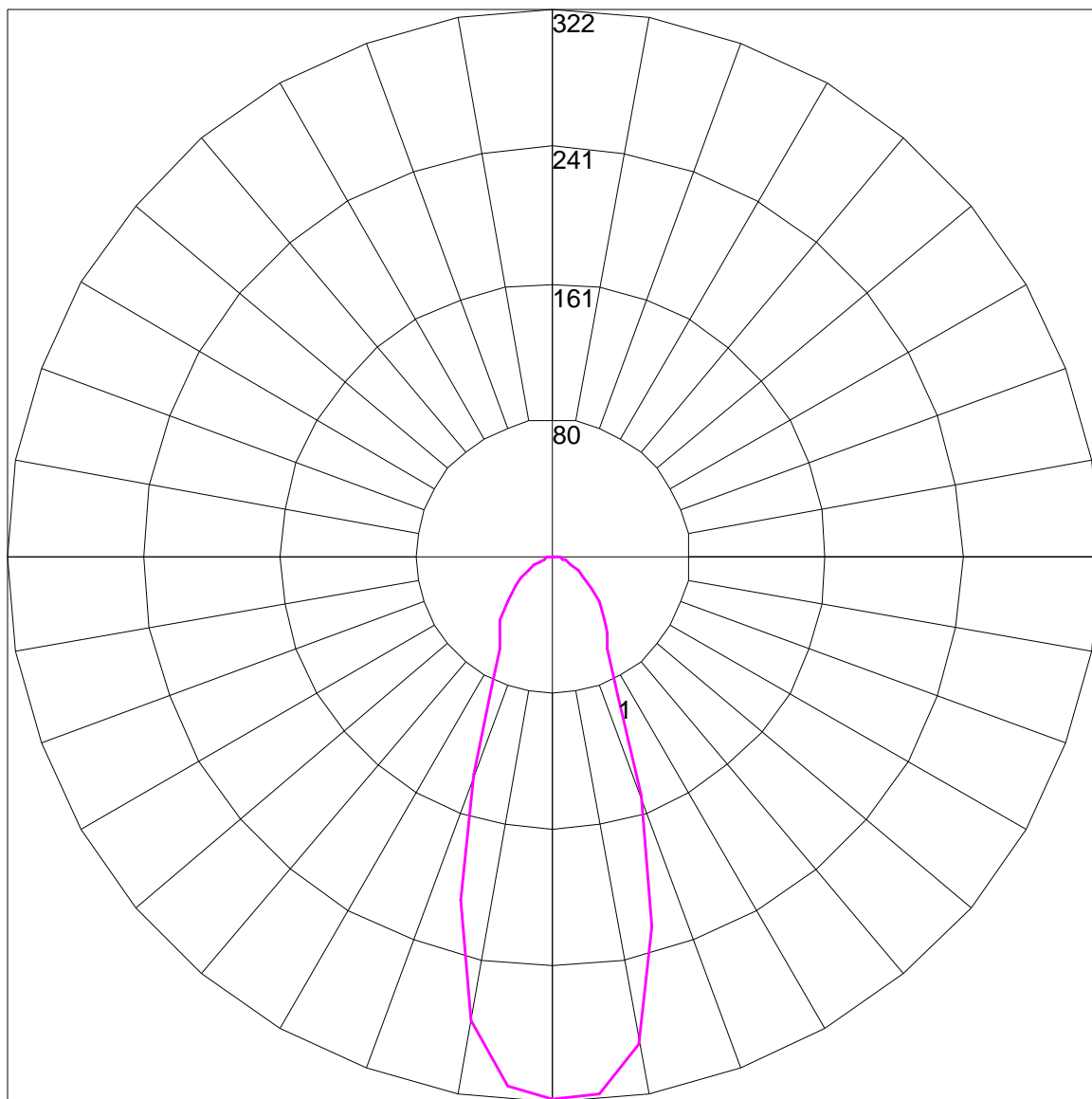
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	90
2	104	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	80
3	98	90	84	79	96	89	83	78	86	81	77	83	79	76	81	77	75	73
4	92	83	76	71	90	82	75	71	79	74	70	77	73	69	75	71	68	66
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	63	61
6	82	71	64	59	80	71	64	59	69	63	59	67	62	58	66	61	58	56
7	77	67	60	55	76	66	59	55	65	59	55	63	58	54	62	57	54	52
8	73	63	56	51	72	62	56	51	61	55	51	60	54	51	59	54	50	49
9	70	59	52	48	69	58	52	48	57	52	48	57	51	48	56	51	47	46
10	66	56	49	45	65	55	49	45	54	49	45	54	48	45	53	48	45	43

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POLAR GRAPH



Maximum Candela = 321.914 Located At Horizontal Angle = 22.5, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (0 - 180)