

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00594_1 ~ DC03XXSQXT-7LXXK-OSDEX-MBIMB.IES
DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] SP-00594_1_M-7L
 [TESTLAB] VLS-245-981
 [MANUFAC] Spectrum Lighting
 [ISSUE DATE] 7/20/2017
 [UPDATE] 9/14/2017
 [LUMCAT] DC03xxSQXT-7L-xxK-OSD-EX-MBI
 [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 Black interior finish
 [OTHER] Exterior finish not relevant to optical performance
 [OTHER] 35.4 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	155
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	25
Total Luminaire Watts	6.2
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.62
Spacing Criterion (90-270)	0.60
Spacing Criterion (Diagonal)	0.58
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	3660	4216	3515
55	1688	2283	1717
65	583	711	575
75	644	646	832
85	1923	2037	1773

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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	298.045	298.045	298.045	298.045	298.045	298.045	298.045	298.045	298.045	298.045
5	295.448	298.822	295.471	297.854	295.576	294.052	296.989	291.056	294.441	293.317
10	266.775	273.933	268.137	270.670	264.285	263.448	264.497	255.476	255.935	248.615
15	196.755	204.351	200.516	203.134	194.181	192.820	194.196	184.618	183.016	177.269
20	119.282	128.163	124.557	125.236	118.152	117.476	117.594	111.156	108.231	104.396
25	61.687	61.277	65.765	62.454	61.031	61.062	62.615	59.066	55.335	55.650
30	36.276	37.635	38.791	37.581	35.966	36.908	41.522	39.670	38.634	38.539
35	29.309	30.885	31.294	30.266	28.388	30.582	33.430	32.312	31.517	33.109
40	21.861	24.259	24.105	21.832	21.108	23.818	25.468	24.373	25.486	26.366
45	15.042	17.899	17.326	16.564	14.444	17.000	19.671	17.767	16.461	19.095
50	10.480	11.698	12.502	11.847	9.801	10.906	13.707	11.556	10.914	12.250
55	5.628	6.289	7.612	6.777	5.725	6.565	7.781	7.269	7.349	7.635
60	2.399	3.905	3.784	3.250	2.296	3.284	4.950	4.074	3.095	3.941
65	1.433	1.790	1.747	1.833	1.412	2.036	2.295	2.191	1.383	1.869
70	1.174	1.680	0.886	1.146	1.387	1.560	1.176	1.418	1.285	1.311
75	0.969	1.315	0.972	1.082	1.252	1.220	1.228	1.018	1.161	1.132
80	0.902	0.890	1.031	0.614	1.066	1.254	1.030	1.464	0.985	1.058
85	0.974	1.218	1.032	0.945	0.898	1.283	1.339	1.023	1.233	0.997
90	0.932	0.467	0.894	0.513	0.701	1.062	0.443	1.001	0.630	1.148
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	298.045	298.045	298.045	298.045	298.045	298.045	298.045
5	292.933	290.085	294.052	296.327	296.264	297.687	295.448
10	251.275	247.216	254.000	261.450	260.300	267.226	266.775
15	179.906	177.727	181.877	190.802	188.087	196.591	196.755
20	108.437	107.191	108.308	112.853	114.247	119.990	119.282
25	58.081	57.922	55.719	57.574	61.090	60.689	61.687
30	42.831	40.259	37.642	40.296	40.245	40.167	36.276
35	34.056	33.405	32.398	34.617	33.250	30.668	29.309
40	27.392	25.966	25.125	26.979	25.151	23.067	21.861
45	19.531	19.873	17.268	18.340	19.075	19.133	15.042

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50	13.704	14.163	11.710	12.110	12.676	10.978	10.480
55	8.313	8.473	7.850	8.451	7.734	6.954	5.628
60	5.020	4.239	3.321	3.785	3.992	2.852	2.399
65	2.144	2.022	1.977	1.955	1.836	1.268	1.433
70	1.288	1.489	1.264	1.160	1.272	1.322	1.174
75	1.151	0.899	1.177	1.267	1.031	1.042	0.969
80	1.268	1.030	1.417	1.298	0.746	1.010	0.902
85	1.139	1.202	1.298	0.827	1.117	0.843	0.974
90	0.849	1.083	1.479	0.421	1.155	0.406	0.932
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	78.93	N.A.	51.00
0-30	109.80	N.A.	70.90
0-40	129.63	N.A.	83.70
0-60	150.16	N.A.	97.00
0-80	153.50	N.A.	99.10
0-90	154.61	N.A.	99.90
10-90	127.63	N.A.	82.40
20-40	50.69	N.A.	32.70
20-50	64.53	N.A.	41.70
40-70	22.66	N.A.	14.60
60-80	3.34	N.A.	2.20
70-80	1.22	N.A.	0.80
80-90	1.11	N.A.	0.70
90-110	0.23	N.A.	0.10
90-120	0.23	N.A.	0.10
90-130	0.23	N.A.	0.10
90-150	0.23	N.A.	0.10
90-180	0.23	N.A.	0.10
110-180	0.00	N.A.	0.00
0-180	154.83	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	26.97
10-20	51.96
20-30	30.87
30-40	19.83
40-50	13.84
50-60	6.70
60-70	2.12
70-80	1.22
80-90	1.11
90-100	0.23
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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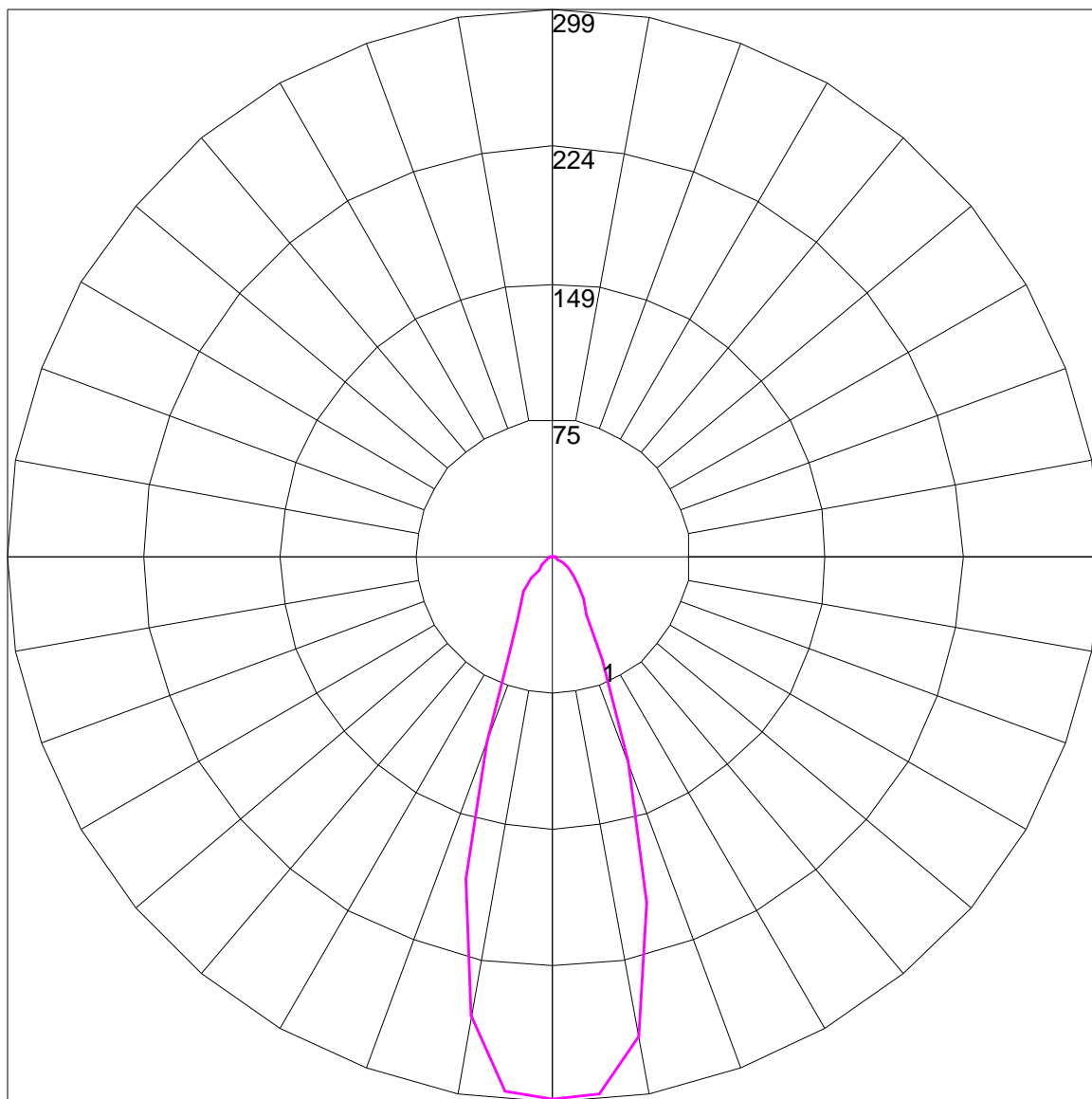
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	113	110	108	105	111	108	106	103	104	102	100	100	99	97	97	95	94	93
2	107	102	98	95	105	101	97	94	97	94	92	94	92	90	92	90	88	86
3	102	96	90	86	100	94	89	86	91	88	84	89	86	83	87	84	82	80
4	97	90	84	80	95	88	83	79	86	82	78	84	80	77	82	79	76	75
5	92	84	78	74	91	83	78	74	81	77	73	80	76	72	78	75	72	70
6	88	79	74	69	87	79	73	69	77	72	69	76	71	68	74	71	68	66
7	84	75	69	65	83	75	69	65	73	68	65	72	68	64	71	67	64	63
8	81	71	66	62	79	71	65	62	70	65	61	69	64	61	68	64	61	59
9	77	68	62	59	76	68	62	58	67	62	58	66	61	58	65	61	58	57
10	74	65	59	56	73	65	59	56	64	59	56	63	59	55	62	58	55	54

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POLAR GRAPH



Maximum Candela = 298.822 Located At Horizontal Angle = 22.5, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (0 - 180)