

**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : SP-00594\_1 ~ DC03XXSQXT-10LXXK-OSDEX-MBIMB.IES**
**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] SP-00594\_1\_M-10L  
 [TESTLAB] VLS-245-981  
 [MANUFAC] Spectrum Lighting  
 [ISSUEDATE] 7/20/2017  
 [UPDATE] 9/14/2017  
 [LUMCAT] DC03xxSQXT-10L-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	208
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	23
Total Luminaire Watts	9.1
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

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00594\_1 ~ DC03XXSQXT-10LXXK-OSDEX-MBIMB.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4906	5651	4711
55	2263	3061	2302
65	782	954	770
75	863	866	1116
85	2576	2730	2375

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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	399.492	399.492	399.492	399.492	399.492	399.492	399.492	399.492	399.492	399.492
5	396.012	400.534	396.042	399.236	396.183	394.141	398.077	390.125	394.662	393.155
10	357.579	367.173	359.405	362.800	354.241	353.120	354.525	342.433	343.049	333.238
15	263.725	273.907	268.767	272.276	260.275	258.451	260.295	247.458	245.311	237.607
20	159.883	171.787	166.954	167.864	158.368	157.462	157.620	148.991	145.070	139.929
25	82.684	82.134	88.150	83.712	81.804	81.846	83.927	79.171	74.169	74.592
30	48.624	50.445	51.994	50.372	48.208	49.471	55.655	53.173	51.784	51.657
35	39.285	41.397	41.945	40.568	38.050	40.992	44.809	43.310	42.244	44.378
40	29.302	32.516	32.310	29.264	28.292	31.925	34.136	32.669	34.161	35.340
45	20.162	23.992	23.223	22.201	19.361	22.786	26.366	23.814	22.063	25.595
50	14.047	15.680	16.757	15.879	13.136	14.618	18.373	15.490	14.629	16.420
55	7.543	8.430	10.203	9.084	7.674	8.800	10.429	9.743	9.851	10.234
60	3.215	5.234	5.072	4.356	3.077	4.402	6.635	5.460	4.148	5.282
65	1.921	2.400	2.342	2.457	1.892	2.729	3.076	2.937	1.854	2.505
70	1.574	2.252	1.187	1.536	1.859	2.090	1.576	1.900	1.723	1.758
75	1.298	1.763	1.303	1.450	1.678	1.635	1.646	1.365	1.556	1.517
80	1.209	1.193	1.382	0.823	1.428	1.681	1.381	1.962	1.320	1.418
85	1.305	1.632	1.383	1.266	1.203	1.720	1.795	1.371	1.653	1.336
90	1.249	0.626	1.199	0.688	0.939	1.424	0.594	1.342	0.845	1.539
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	399.492	399.492	399.492	399.492	399.492	399.492	399.492
5	392.640	388.823	394.140	397.190	397.105	399.013	396.012
10	336.802	331.362	340.456	350.441	348.900	358.183	357.579
15	241.142	238.220	243.783	255.746	252.107	263.506	263.725
20	145.346	143.676	145.174	151.266	153.134	160.831	159.883
25	77.851	77.638	74.685	77.171	81.884	81.346	82.684
30	57.410	53.962	50.454	54.011	53.944	53.838	48.624
35	45.648	44.776	43.426	46.400	44.567	41.106	39.285
40	36.716	34.804	33.677	36.162	33.712	30.919	29.302
45	26.179	26.637	23.146	24.583	25.567	25.646	20.162

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50	18.368	18.984	15.695	16.233	16.991	14.715	14.047
55	11.143	11.357	10.521	11.327	10.366	9.321	7.543
60	6.728	5.682	4.451	5.073	5.351	3.822	3.215
65	2.874	2.710	2.650	2.620	2.461	1.699	1.921
70	1.726	1.996	1.694	1.555	1.704	1.772	1.574
75	1.543	1.205	1.577	1.698	1.382	1.396	1.298
80	1.700	1.381	1.899	1.740	1.000	1.354	1.209
85	1.526	1.611	1.739	1.109	1.497	1.130	1.305
90	1.138	1.452	1.982	0.564	1.548	0.545	1.249
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	105.80	N.A.	51.00
0-30	147.17	N.A.	70.90
0-40	173.75	N.A.	83.70
0-60	201.27	N.A.	97.00
0-80	205.75	N.A.	99.10
0-90	207.23	N.A.	99.90
10-90	171.08	N.A.	82.40
20-40	67.95	N.A.	32.70
20-50	86.49	N.A.	41.70
40-70	30.37	N.A.	14.60
60-80	4.47	N.A.	2.20
70-80	1.63	N.A.	0.80
80-90	1.48	N.A.	0.70
90-110	0.30	N.A.	0.10
90-120	0.30	N.A.	0.10
90-130	0.30	N.A.	0.10
90-150	0.30	N.A.	0.10
90-180	0.30	N.A.	0.10
110-180	0.00	N.A.	0.00
0-180	207.53	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	36.16
10-20	69.64
20-30	41.37
30-40	26.58
40-50	18.55
50-60	8.98
60-70	2.84
70-80	1.63
80-90	1.48
90-100	0.30
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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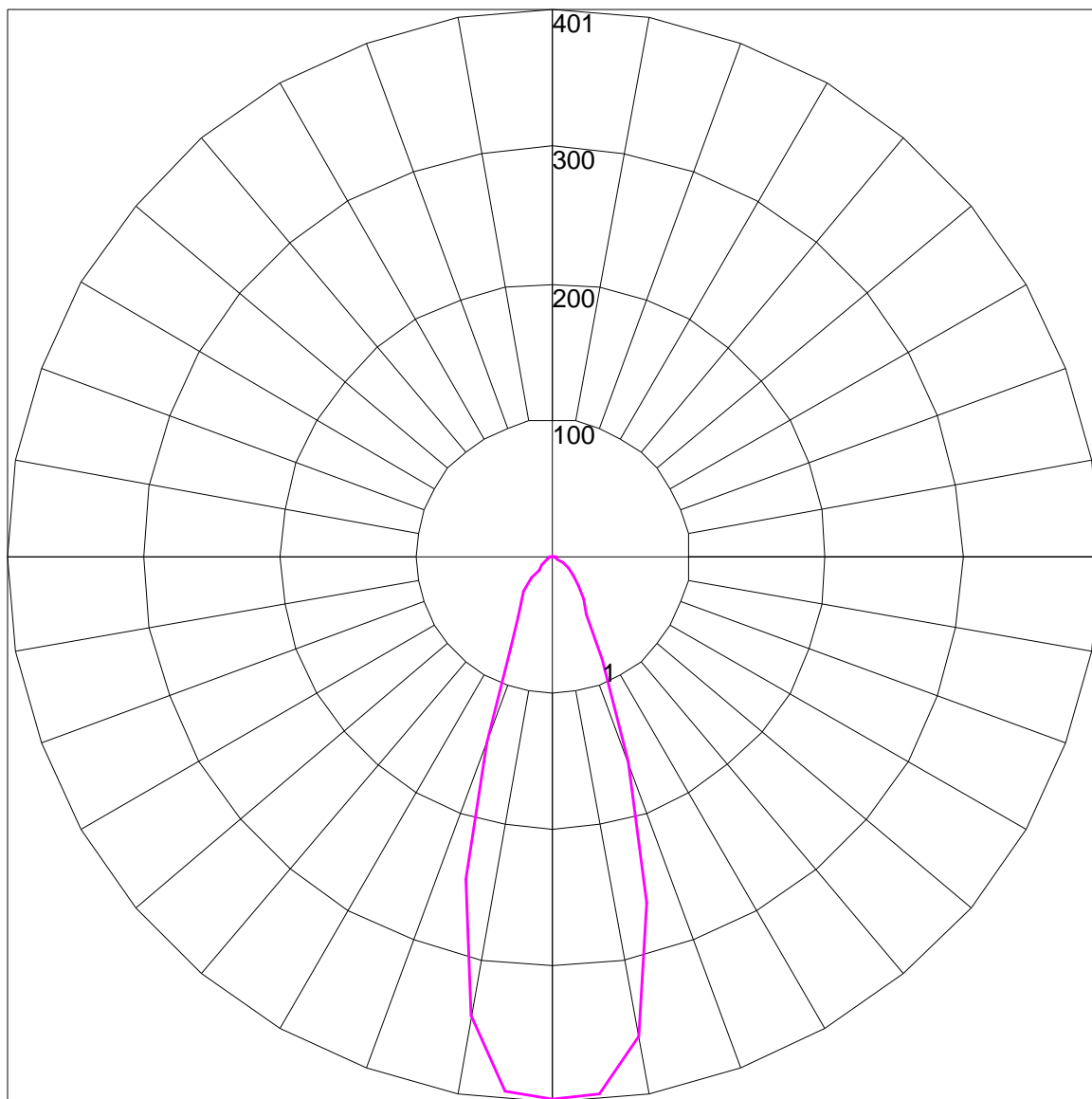
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	107	105	110	108	105	103	104	102	100	100	98	97	97	95	94	92
2	107	102	98	95	105	100	97	94	97	94	91	94	92	89	91	89	88	86
3	102	95	90	86	100	94	89	86	91	87	84	89	86	83	87	84	82	80
4	97	89	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	74	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	67	62	58	67	62	58	66	61	58	65	61	58	57
10	74	65	59	56	73	64	59	56	64	59	55	63	58	55	62	58	55	54

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POLAR GRAPH



Maximum Candela = 400.534 Located At Horizontal Angle = 22.5, Vertical Angle = 5  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)