

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00594 ~ DC03XXSQXT-13LXXK-OSDEX-MWIMW.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] SP-00594
[TESTLAB] VLS-245-981
[MANUFAC] Spectrum Lighting
[ISSUEDATE] 7/20/2017
[UPDATE] 9/14/2017
[LUMCAT] DC03xxSQXT-13L-xxK-OSD-MWI
[LUMINAIRE] Nom. 3" Square, LED Decorative Cylinder Downlight
[OTHER] Matte White interior and exterior finish
[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

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	442
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	34
Total Luminaire Watts	13
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

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00594 ~ DC03XXSQXT-13LXXK-OSDEX-MWIMW.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	16885	17436	16444
55	12200	11454	12133
65	8588	7695	9037
75	6668	6391	6371
85	6641	7460	7911

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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	577.997	577.997	577.997	577.997	577.997	577.997	577.997	577.997	577.997	577.997
5	575.719	581.282	577.530	577.890	578.039	572.792	576.723	570.849	567.392	565.163
10	527.329	539.193	537.933	541.463	533.113	518.043	521.509	507.156	503.296	497.075
15	409.678	427.374	426.158	431.639	413.109	394.532	400.403	382.525	378.597	369.243
20	271.950	290.373	288.405	290.866	274.858	259.991	265.346	251.626	246.054	244.142
25	163.630	178.697	177.134	176.893	164.189	161.207	166.359	159.641	152.104	159.149
30	114.217	123.577	122.797	119.793	110.838	116.709	124.569	120.446	112.843	122.522
35	99.435	102.267	103.575	100.802	96.814	102.758	105.358	105.412	100.047	107.496
40	86.952	89.424	86.470	87.065	83.074	86.319	86.765	89.334	87.947	93.061
45	69.390	72.725	71.654	70.336	67.578	65.680	71.329	69.856	68.886	73.382
50	52.154	56.883	53.923	53.330	52.839	49.671	54.434	51.703	51.032	53.780
55	40.671	42.466	38.182	40.645	40.446	39.081	39.831	37.661	41.426	40.171
60	30.270	30.824	28.220	30.284	29.443	28.698	27.735	27.337	31.119	31.264
65	21.094	21.709	18.900	21.876	22.196	20.240	20.667	20.790	21.857	21.651
70	14.691	16.643	13.419	14.918	15.696	15.299	14.268	13.867	15.009	14.406
75	10.030	9.575	9.614	8.442	9.584	9.542	11.028	10.507	10.511	10.355
80	6.242	6.795	6.030	7.693	5.281	6.189	6.981	6.611	6.353	6.115
85	3.364	3.089	3.779	4.168	4.007	4.789	4.475	4.702	4.144	3.713
90	2.456	1.854	2.382	2.433	2.072	2.727	2.727	2.605	2.864	3.380
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	577.997	577.997	577.997	577.997	577.997	577.997	577.997
5	570.411	565.396	568.696	572.843	575.839	575.831	575.719
10	504.939	495.483	500.712	520.594	524.310	529.799	527.329
15	383.571	374.108	374.545	406.448	405.046	416.255	409.678
20	255.622	248.379	245.526	274.946	275.422	281.484	271.950
25	167.528	164.493	157.652	176.563	177.014	177.677	163.630
30	131.197	129.063	120.700	130.332	130.362	128.309	114.217
35	112.996	111.198	105.876	112.233	113.659	110.821	99.435
40	94.478	95.143	91.758	96.877	96.831	94.881	86.952
45	77.060	77.275	72.663	79.273	77.409	75.493	69.390

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50	55.739	57.380	57.337	58.718	56.813	56.713	52.154
55	40.866	41.323	44.067	42.690	42.038	42.462	40.671
60	31.413	29.815	32.982	31.861	31.126	30.809	30.270
65	21.385	22.384	23.173	22.183	21.650	22.253	21.094
70	15.120	16.592	16.649	15.086	15.306	15.510	14.691
75	10.671	11.013	10.390	9.794	8.843	10.724	10.030
80	7.097	6.640	7.244	6.207	5.785	6.080	6.242
85	4.276	5.343	4.131	4.182	3.724	3.981	3.364
90	2.553	2.456	2.257	2.673	2.090	1.590	2.456
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	162.21	N.A.	36.70
0-30	244.42	N.A.	55.30
0-40	310.72	N.A.	70.30
0-60	403.72	N.A.	91.40
0-80	436.57	N.A.	98.80
0-90	441.24	N.A.	99.80
10-90	388.41	N.A.	87.90
20-40	148.51	N.A.	33.60
20-50	204.34	N.A.	46.20
40-70	114.85	N.A.	26.00
60-80	32.85	N.A.	7.40
70-80	11.00	N.A.	2.50
80-90	4.67	N.A.	1.10
90-110	0.67	N.A.	0.20
90-120	0.67	N.A.	0.20
90-130	0.67	N.A.	0.20
90-150	0.67	N.A.	0.20
90-180	0.67	N.A.	0.20
110-180	0.00	N.A.	0.00
0-180	441.91	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	52.83
10-20	109.38
20-30	82.21
30-40	66.30
40-50	55.83
50-60	37.17
60-70	21.85
70-80	11.00
80-90	4.67
90-100	0.67
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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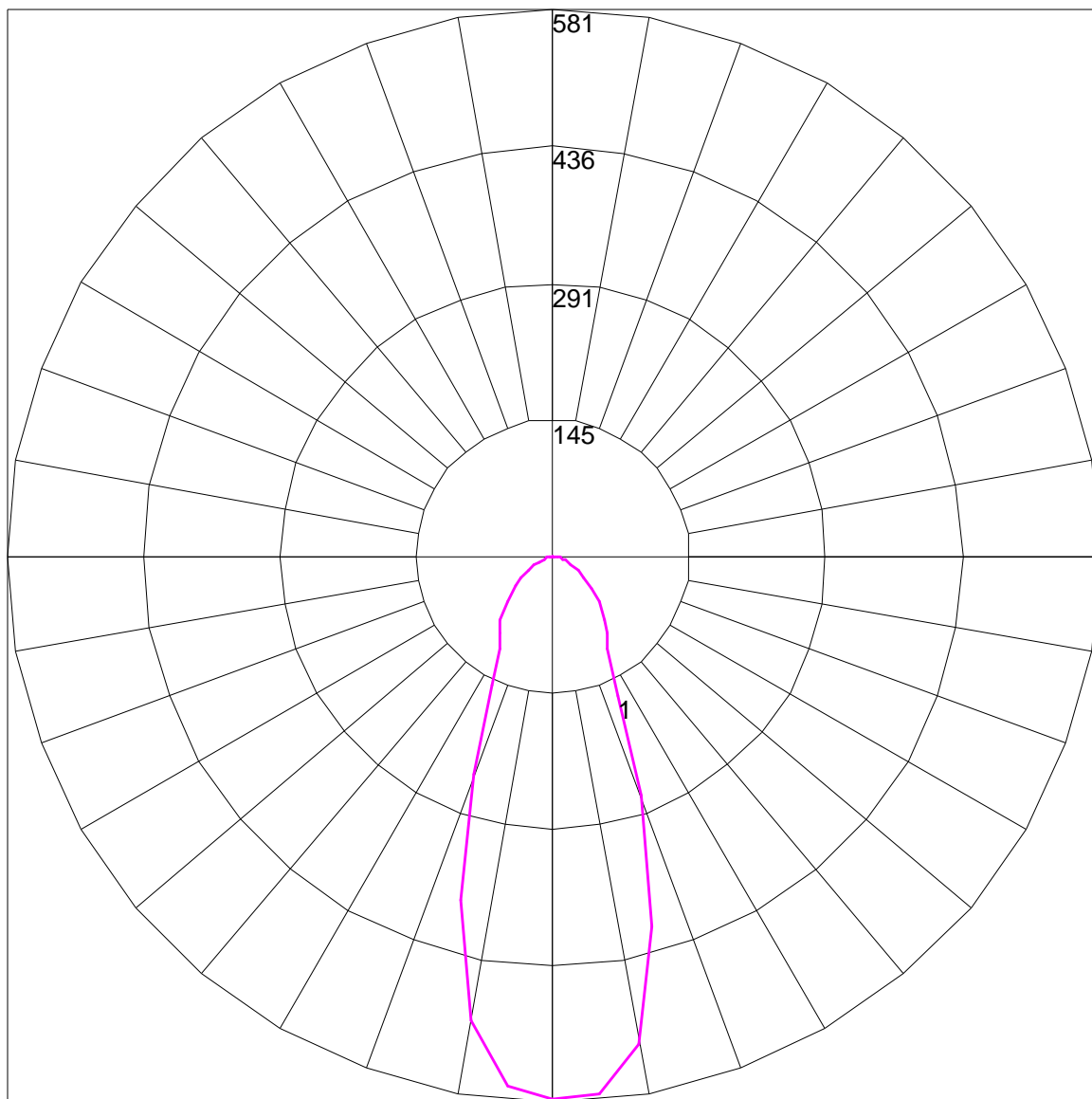
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	92	90
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81
3	98	90	84	79	96	89	83	78	86	81	77	83	79	76	81	78	75	73
4	92	83	76	71	90	82	76	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	60	55	65	59	55	63	58	54	62	57	54	52
8	73	63	56	51	72	62	56	51	61	55	51	60	55	51	59	54	50	49
9	70	59	52	48	69	59	52	48	58	52	48	57	51	48	56	51	47	46
10	67	56	49	45	65	55	49	45	55	49	45	54	48	45	53	48	45	43

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POLAR GRAPH



Maximum Candela = 581.282 Located At Horizontal Angle = 22.5, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (0 - 180)