

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00594_1 ~ DC03XXSQXT-13LXXK-OSDEX-MBIMB.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] SP-00594_1
[TESTLAB] VLS-245-981
[MANUFAC] Spectrum Lighting
[ISSUE DATE] 7/20/2017
[UPDATE] 9/14/2017
[LUMCAT] DC03xxSQXT-13L-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

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	280
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	22
Total Luminaire Watts	13
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	6609	7613	6347
55	3048	4123	3101
65	1054	1285	1038
75	1163	1167	1503
85	3471	3678	3200

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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	538.182	538.182	538.182	538.182	538.182	538.182	538.182	538.182	538.182	538.182
5	533.493	539.585	533.533	537.836	533.723	530.972	536.275	525.562	531.674	529.645
10	481.717	494.642	484.177	488.751	477.221	475.710	477.603	461.314	462.144	448.926
15	355.281	368.998	362.073	366.801	350.633	348.176	350.660	333.366	330.474	320.095
20	215.389	231.425	224.914	226.140	213.348	212.127	212.340	200.715	195.433	188.508
25	111.389	110.648	118.753	112.774	110.204	110.260	113.064	106.656	99.918	100.488
30	65.504	67.958	70.045	67.860	64.944	66.645	74.976	71.633	69.761	69.590
35	52.923	55.769	56.507	54.652	51.260	55.223	60.365	58.346	56.910	59.785
40	39.474	43.804	43.527	39.423	38.114	43.008	45.987	44.010	46.020	47.609
45	27.162	32.321	31.285	29.909	26.082	30.697	35.520	32.082	29.723	34.480
50	18.924	21.123	22.575	21.392	17.697	19.693	24.751	20.867	19.707	22.120
55	10.162	11.356	13.745	12.237	10.338	11.855	14.050	13.126	13.271	13.787
60	4.331	7.051	6.833	5.868	4.145	5.930	8.939	7.356	5.588	7.116
65	2.588	3.233	3.155	3.310	2.549	3.677	4.144	3.957	2.498	3.375
70	2.120	3.034	1.599	2.069	2.504	2.816	2.123	2.560	2.321	2.368
75	1.749	2.375	1.755	1.953	2.261	2.203	2.217	1.839	2.096	2.044
80	1.629	1.607	1.862	1.109	1.924	2.265	1.860	2.643	1.778	1.910
85	1.758	2.199	1.863	1.706	1.621	2.317	2.418	1.847	2.227	1.800
90	1.683	0.843	1.615	0.927	1.265	1.918	0.800	1.808	1.138	2.073
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	538.182	538.182	538.182	538.182	538.182	538.182	538.182
5	528.950	523.809	530.971	535.080	534.965	537.536	533.493
10	453.728	446.399	458.650	472.101	470.026	482.531	481.717
15	324.858	320.922	328.416	344.532	339.630	354.986	355.281
20	195.805	193.555	195.573	203.780	206.297	216.666	215.389
25	104.878	104.591	100.613	103.962	110.311	109.587	111.389
30	77.341	72.696	67.970	72.762	72.671	72.529	65.504
35	61.496	60.320	58.502	62.509	60.039	55.377	52.923
40	49.462	46.887	45.368	48.716	45.415	41.653	39.474
45	35.267	35.884	31.181	33.117	34.443	34.549	27.162

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50	24.745	25.574	21.144	21.868	22.889	19.823	18.924
55	15.011	15.300	14.174	15.260	13.965	12.557	10.162
60	9.064	7.655	5.996	6.834	7.209	5.149	4.331
65	3.872	3.651	3.570	3.530	3.315	2.289	2.588
70	2.325	2.689	2.282	2.095	2.296	2.387	2.120
75	2.079	1.623	2.125	2.288	1.862	1.881	1.749
80	2.290	1.860	2.558	2.344	1.347	1.824	1.629
85	2.056	2.170	2.343	1.494	2.017	1.522	1.758
90	1.533	1.956	2.670	0.760	2.085	0.734	1.683
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	142.53	N.A.	51.00
0-30	198.26	N.A.	70.90
0-40	234.06	N.A.	83.70
0-60	271.15	N.A.	97.00
0-80	277.17	N.A.	99.10
0-90	279.17	N.A.	99.90
10-90	230.47	N.A.	82.40
20-40	91.54	N.A.	32.70
20-50	116.52	N.A.	41.70
40-70	40.91	N.A.	14.60
60-80	6.03	N.A.	2.20
70-80	2.20	N.A.	0.80
80-90	2.00	N.A.	0.70
90-110	0.41	N.A.	0.10
90-120	0.41	N.A.	0.10
90-130	0.41	N.A.	0.10
90-150	0.41	N.A.	0.10
90-180	0.41	N.A.	0.10
110-180	0.00	N.A.	0.00
0-180	279.58	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	48.71
10-20	93.82
20-30	55.73
30-40	35.80
40-50	24.99
50-60	12.10
60-70	3.83
70-80	2.20
80-90	2.00
90-100	0.41
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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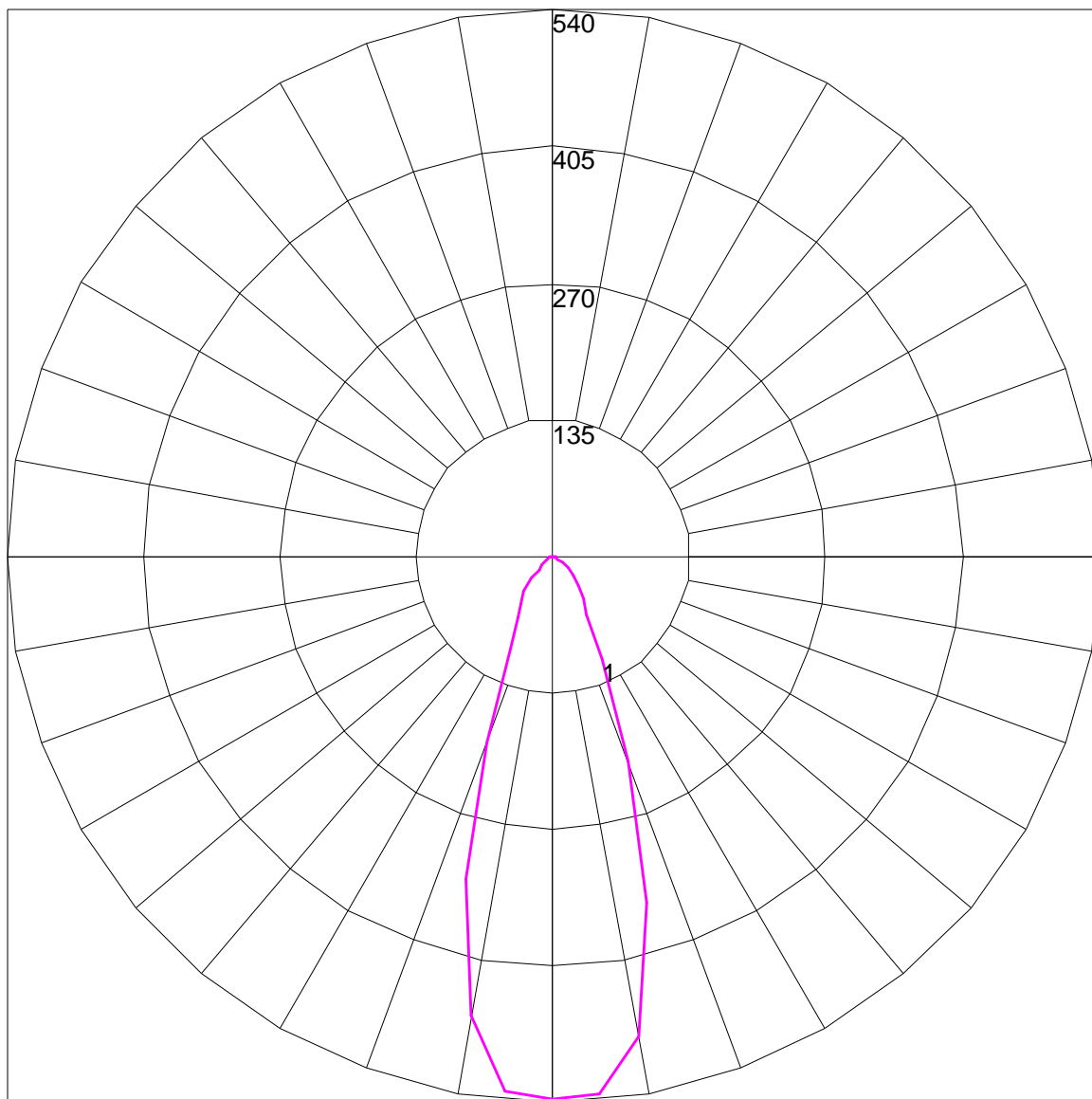
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	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	89	88	86
3	102	95	90	86	100	94	89	86	91	88	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	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	55	63	58	55	62	58	55	54

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POLAR GRAPH



Maximum Candela = 539.585 Located At Horizontal Angle = 22.5, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (0 - 180)