

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00566 ~ DC03XXXT-10LXXK-OSDEX-MWIMW.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] SP-00566_M-10L
[TESTLAB] VLS-245-981
[MANUFAC] Spectrum Lighting
[ISSUE DATE] 6/6/2017
[UPDATE] 9/14/2017
[LUMCAT] DC03xxXT-10L-xxK-OSD-EX-MWI
[LUMINAIRE] Nom. 3" Diam, Decorative LED 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] 34.6 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	320
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	35
Total Luminaire Watts	9.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.60
Spacing Criterion (90-270)	0.60
Spacing Criterion (Diagonal)	0.54
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.25 ft (Diameter)
Luminous Width (90-270)	0.25 ft (Diameter)
Luminous Height	0.00 ft

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Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	10637	9924	10364
55	7189	6527	6455
65	3687	2860	2796
75	1652	2767	1772
85	5326	4708	4663

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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	656.553	656.553	656.553	656.553	656.553	656.553	656.553	656.553	656.553	656.553
5	660.298	660.791	658.938	658.571	660.726	657.949	657.633	663.927	663.656	665.167
10	592.161	599.674	610.563	609.347	605.815	600.922	595.191	594.729	592.145	582.304
15	428.511	435.967	451.474	451.591	445.983	440.294	426.436	425.085	423.126	415.782
20	194.422	155.848	139.931	129.291	141.779	164.315	203.122	248.663	248.825	245.711
25	79.183	74.524	72.715	70.275	73.991	77.844	83.615	89.624	98.261	114.936
30	68.272	63.163	62.009	63.283	60.029	66.157	71.171	76.831	85.062	88.936
35	48.875	44.023	40.982	41.086	42.071	46.117	50.102	57.738	63.868	72.114
40	42.727	37.075	36.724	35.788	38.750	41.238	40.666	44.199	46.796	46.489
45	34.333	31.951	32.032	31.740	33.452	32.961	34.124	34.848	35.656	38.428
50	24.868	21.281	25.839	23.040	25.191	25.787	25.358	26.028	25.742	27.230
55	18.822	17.409	17.090	15.451	16.900	17.294	17.950	17.949	17.684	17.576
60	9.789	11.102	11.922	9.718	11.006	9.642	9.982	10.411	11.387	10.870
65	7.113	6.598	5.518	5.988	5.393	5.809	6.361	5.973	6.577	6.638
70	3.646	3.965	4.224	4.406	3.336	4.073	4.587	4.540	4.597	4.090
75	1.952	3.219	3.269	3.434	2.094	2.125	3.566	3.660	2.790	3.521
80	2.233	2.079	2.756	3.160	3.173	1.944	3.274	3.075	2.956	3.632
85	2.119	1.980	1.873	2.016	1.855	2.036	2.571	2.009	2.843	3.106
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.304	2.448	1.984
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	656.553	656.553	656.553	656.553	656.553	656.553	656.553
5	663.256	664.240	662.771	664.612	663.588	663.981	660.298
10	575.446	575.302	574.901	582.999	589.048	588.901	592.161
15	409.573	407.931	414.872	417.058	421.822	422.639	428.511
20	243.997	241.145	243.980	245.346	248.567	245.157	194.422
25	118.830	125.619	120.797	110.126	96.345	86.314	79.183
30	91.806	93.309	95.083	88.827	83.782	77.459	68.272
35	76.903	79.793	78.894	73.545	68.776	54.187	48.875
40	49.440	54.093	57.790	51.738	45.543	42.682	42.727
45	37.603	39.285	39.682	39.187	39.642	34.229	34.333

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CANDELA TABULATION - (Cont.)

50	28.575	27.548	29.077	28.592	27.840	25.875	24.868
55	19.219	19.294	16.907	19.421	18.761	17.064	18.822
60	12.400	11.587	12.252	11.269	12.186	10.554	9.789
65	7.994	7.223	7.153	6.976	6.247	5.866	7.113
70	4.351	5.168	6.031	3.619	3.532	5.143	3.646
75	2.349	3.354	3.579	2.553	3.141	2.688	1.952
80	2.835	3.101	3.332	2.272	2.501	2.506	2.233
85	2.269	2.371	2.804	1.837	1.624	1.648	2.119
90	1.648	2.900	2.549	1.841	1.957	1.198	0.000
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	173.50	N.A.	54.10
0-30	226.76	N.A.	70.80
0-40	263.98	N.A.	82.40
0-60	307.48	N.A.	95.90
0-80	317.90	N.A.	99.20
0-90	320.16	N.A.	99.90
10-90	259.55	N.A.	81.00
20-40	90.48	N.A.	28.20
20-50	117.77	N.A.	36.70
40-70	50.48	N.A.	15.80
60-80	10.43	N.A.	3.30
70-80	3.45	N.A.	1.10
80-90	2.26	N.A.	0.70
90-110	0.31	N.A.	0.10
90-120	0.31	N.A.	0.10
90-130	0.31	N.A.	0.10
90-150	0.31	N.A.	0.10
90-180	0.31	N.A.	0.10
110-180	0.00	N.A.	0.00
0-180	320.47	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	60.61
10-20	112.89
20-30	53.26
30-40	37.22
40-50	27.29
50-60	16.21
60-70	6.98
70-80	3.45
80-90	2.26
90-100	0.31
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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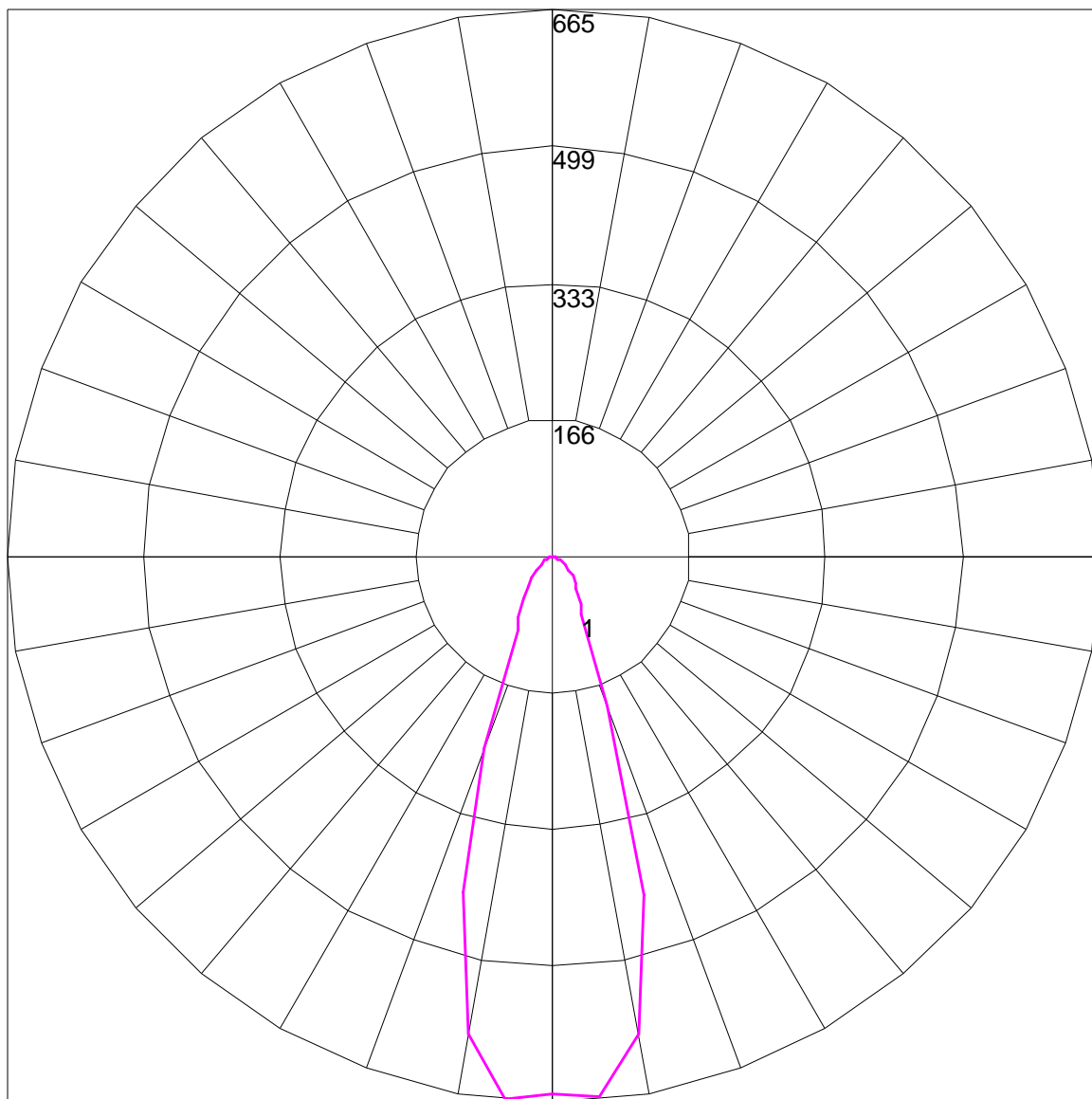
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	104	104	102	100	100	99	97	97	96	95	93
2	108	102	98	95	105	101	97	94	97	94	92	94	92	90	92	90	88	86
3	102	96	91	86	100	94	90	86	92	88	84	89	86	83	87	84	82	80
4	97	90	84	80	95	88	83	79	86	82	78	84	81	77	82	79	77	75
5	93	84	79	74	91	83	78	74	82	77	73	80	76	73	78	75	72	71
6	89	80	74	70	87	79	73	69	77	73	69	76	72	69	75	71	68	67
7	85	76	70	66	83	75	70	66	74	69	65	73	68	65	71	68	65	63
8	81	72	66	62	80	71	66	62	70	65	62	69	65	62	68	64	61	60
9	78	69	63	59	77	68	63	59	67	62	59	66	62	59	66	62	59	57
10	75	66	60	57	74	65	60	57	65	60	56	64	59	56	63	59	56	55

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POLAR GRAPH



Maximum Candela = 665.167 Located At Horizontal Angle = 202.5, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (0 - 180)