

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00566 ~ DC03XXXT-13LXXK-OSDEX-MWIMW.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] SP-00566
[TESTLAB] VLS-245-981
[MANUFAC] Spectrum Lighting
[ISSUEDATE] 6/6/2017
[UPDATE] 9/14/2017
[LUMCAT] DC03xxXT-13L-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

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	434
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	33
Total Luminaire Watts	13
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

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00566 ~ DC03XXXT-13LXXK-OSDEX-MWIMW.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	14396	13432	14027
55	9730	8835	8736
65	4990	3871	3784
75	2236	3745	2399
85	7209	6375	6309

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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	888.611	888.611	888.611	888.611	888.611	888.611	888.611	888.611	888.611	888.611
5	893.679	894.346	891.839	891.342	894.258	890.499	890.072	898.591	898.224	900.269
10	801.460	811.627	826.365	824.719	819.939	813.317	805.561	804.934	801.438	788.118
15	579.967	590.059	611.047	611.206	603.615	595.915	577.159	575.331	572.679	562.740
20	263.140	210.933	189.389	174.989	191.890	222.392	274.915	336.553	336.771	332.557
25	107.170	100.865	98.415	95.114	100.142	105.358	113.169	121.301	132.992	155.560
30	92.402	85.488	83.926	85.650	81.246	89.540	96.326	103.987	115.127	120.370
35	66.150	59.583	55.467	55.608	56.941	62.417	67.810	78.145	86.443	97.602
40	57.829	50.179	49.705	48.438	52.446	55.814	55.039	59.822	63.335	62.921
45	46.467	43.244	43.354	42.958	45.276	44.612	46.185	47.164	48.259	52.011
50	33.658	28.803	34.972	31.183	34.094	34.901	34.320	35.228	34.840	36.854
55	25.475	23.563	23.131	20.912	22.873	23.407	24.294	24.293	23.935	23.789
60	13.249	15.026	16.136	13.153	14.896	13.050	13.510	14.091	15.411	14.712
65	9.627	8.930	7.468	8.104	7.299	7.863	8.610	8.084	8.902	8.984
70	4.935	5.366	5.716	5.963	4.515	5.512	6.208	6.145	6.222	5.536
75	2.642	4.357	4.424	4.647	2.834	2.876	4.826	4.953	3.776	4.765
80	3.022	2.813	3.730	4.277	4.294	2.631	4.431	4.162	4.000	4.916
85	2.868	2.680	2.536	2.729	2.510	2.755	3.479	2.719	3.848	4.204
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.765	3.313	2.685
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	888.611	888.611	888.611	888.611	888.611	888.611	888.611
5	897.682	899.015	897.026	899.517	898.133	898.663	893.679
10	778.836	778.642	778.098	789.058	797.246	797.047	801.460
15	554.336	552.114	561.507	564.467	570.915	572.020	579.967
20	330.237	326.378	330.215	332.063	336.423	331.807	263.140
25	160.831	170.018	163.492	149.050	130.398	116.822	107.170
30	124.255	126.289	128.690	120.223	113.395	104.837	92.402
35	104.085	107.996	106.779	99.540	93.085	73.339	66.150
40	66.915	73.212	78.216	70.025	61.640	57.768	57.829
45	50.893	53.170	53.708	53.038	53.653	46.328	46.467

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CANDELA TABULATION - (Cont.)

50	38.675	37.284	39.354	38.697	37.680	35.020	33.658
55	26.012	26.114	22.883	26.285	25.392	23.095	25.475
60	16.783	15.683	16.582	15.253	16.493	14.284	13.249
65	10.819	9.776	9.681	9.442	8.454	7.939	9.627
70	5.889	6.994	8.162	4.898	4.781	6.961	4.935
75	3.179	4.539	4.843	3.456	4.252	3.638	2.642
80	3.837	4.197	4.509	3.076	3.385	3.391	3.022
85	3.071	3.209	3.795	2.487	2.198	2.231	2.868
90	2.231	3.925	3.449	2.492	2.649	1.622	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	234.82	N.A.	54.10
0-30	306.90	N.A.	70.80
0-40	357.29	N.A.	82.40
0-60	416.15	N.A.	95.90
0-80	430.27	N.A.	99.20
0-90	433.32	N.A.	99.90
10-90	351.29	N.A.	81.00
20-40	122.47	N.A.	28.20
20-50	159.40	N.A.	36.80
40-70	68.32	N.A.	15.80
60-80	14.11	N.A.	3.30
70-80	4.66	N.A.	1.10
80-90	3.06	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	433.74	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	82.03
10-20	152.79
20-30	72.08
30-40	50.38
40-50	36.93
50-60	21.94
60-70	9.45
70-80	4.66
80-90	3.06
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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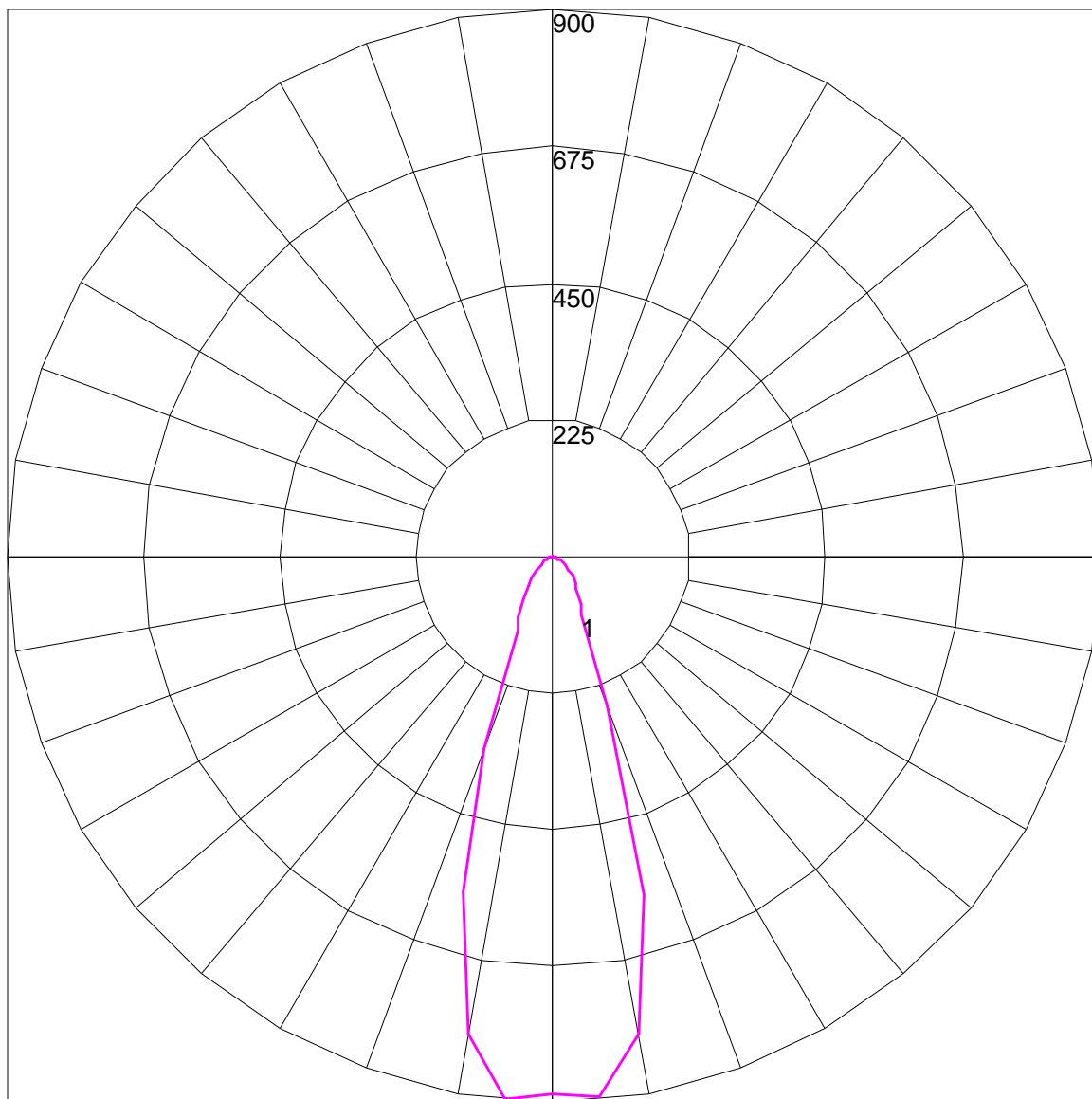
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	111	108	106	103	104	102	100	100	99	97	97	95	94	93
2	107	102	98	95	105	101	97	93	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	93	84	78	74	91	83	78	74	81	77	73	80	76	73	78	75	72	70
6	88	80	74	70	87	79	73	69	77	72	69	76	72	68	75	71	68	67
7	85	76	70	66	83	75	69	65	74	69	65	72	68	65	71	67	64	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	65	61	58	57
10	75	66	60	57	74	65	60	56	64	60	56	64	59	56	63	59	56	55

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POLAR GRAPH



Maximum Candela = 900.269 Located At Horizontal Angle = 202.5, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (0 - 180)