

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00566\_2 ~ DC03XXXT-7LXXK-OSDEX-MBIMB.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] SP-00566\_2\_M-7L  
[TESTLAB] VLS-245-981  
[MANUFAC] Spectrum Lighting  
[ISSUEDATE] 6/6/2017  
[UPDATE] 9/14/2017  
[LUMCAT] DCY03xxXT-7L-xxK-OSD-EX-MBI  
[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 Black interior finish  
[OTHER] Exterior finish not relevant to optical performance  
[OTHER] 34.9 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	153
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	25
Total Luminaire Watts	6.2
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.60
Spacing Criterion (90-270)	0.54
Spacing Criterion (Diagonal)	0.58
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\_2 ~ DC03XXXT-7LXXK-OSDEX-MBIMB.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4835	5362	5541
55	2043	2718	2856
65	588	730	887
75	929	703	1184
85	2554	2933	2976

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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>
<b>0</b>	311.431	311.431	311.431	311.431	311.431	311.431	311.431	311.431	311.431	311.431
<b>5</b>	304.857	307.060	302.057	301.726	298.490	298.942	303.182	301.582	307.803	304.915
<b>10</b>	270.032	266.059	255.450	253.862	247.983	248.276	252.503	250.664	263.549	268.366
<b>15</b>	198.004	193.185	180.092	178.316	172.758	172.395	176.872	176.573	189.917	194.739
<b>20</b>	120.643	115.647	104.852	106.292	100.840	100.582	101.380	102.173	112.388	115.685
<b>25</b>	62.199	55.801	56.467	57.526	56.412	57.037	55.409	54.174	54.866	58.763
<b>30</b>	37.444	40.156	40.654	42.880	41.719	40.760	42.014	38.877	37.293	34.519
<b>35</b>	30.015	31.895	34.096	35.376	33.584	32.751	33.576	31.296	30.113	26.375
<b>40</b>	21.957	25.150	25.549	25.581	26.100	25.473	26.476	23.446	23.550	19.706
<b>45</b>	15.607	18.254	17.308	18.556	17.884	18.031	19.544	16.610	14.932	13.784
<b>50</b>	10.306	11.091	11.232	12.134	11.702	11.850	12.624	11.211	10.986	8.923
<b>55</b>	5.349	6.915	7.117	7.109	7.478	6.836	7.135	6.257	6.389	4.783
<b>60</b>	1.962	2.940	3.111	2.963	3.374	2.952	3.086	2.289	2.472	2.396
<b>65</b>	1.134	1.528	1.409	1.432	1.711	1.413	1.496	1.227	1.345	1.605
<b>70</b>	1.356	1.276	1.087	1.189	1.133	1.069	1.269	1.328	1.240	1.427
<b>75</b>	1.098	0.812	0.831	1.253	1.399	0.840	1.125	1.339	0.980	1.326
<b>80</b>	1.031	0.681	1.016	0.967	0.951	1.268	1.017	0.951	0.995	1.177
<b>85</b>	1.016	1.560	1.167	0.795	1.184	1.567	1.194	1.255	1.376	1.186
<b>90</b>	0.897	0.265	0.702	0.611	0.658	0.980	0.583	1.133	0.579	1.237
<b>95</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>100</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>105</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>110</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>115</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>120</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>125</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>130</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>135</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>140</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>145</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>150</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>155</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>160</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>165</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>170</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>175</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>180</b>	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>
<b>0</b>	311.431	311.431	311.431	311.431	311.431	311.431	311.431
<b>5</b>	310.988	307.314	310.302	310.132	308.851	310.727	304.857
<b>10</b>	279.502	280.468	288.743	290.975	285.893	285.853	270.032
<b>15</b>	209.827	213.317	222.597	225.839	216.886	216.487	198.004
<b>20</b>	128.531	131.924	140.827	142.446	134.241	133.723	120.643
<b>25</b>	61.158	66.883	69.029	71.142	68.121	64.375	62.199
<b>30</b>	32.806	35.259	36.081	33.879	34.985	35.413	37.444
<b>35</b>	26.925	25.221	26.070	26.243	25.656	26.936	30.015
<b>40</b>	19.931	17.701	18.177	19.194	19.033	21.032	21.957
<b>45</b>	14.287	13.020	12.834	12.129	12.798	14.240	15.607

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50	9.683	8.952	9.414	8.686	8.481	9.260	10.306
55	4.620	4.768	4.774	3.988	4.873	4.803	5.349
60	2.435	1.988	1.732	1.936	2.149	1.900	1.962
65	1.789	1.604	1.429	1.439	1.298	1.167	1.134
70	1.700	1.887	1.382	1.472	1.270	1.379	1.356
75	1.265	1.467	1.218	1.496	0.909	1.335	1.098
80	0.982	1.339	1.093	0.851	1.233	0.939	1.031
85	1.528	1.003	1.257	0.862	0.907	0.797	1.016
90	0.791	0.825	1.389	0.458	0.774	0.473	0.897
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	81.33	N.A.	53.10
0-30	112.54	N.A.	73.50
0-40	131.19	N.A.	85.60
0-60	148.93	N.A.	97.20
0-80	151.83	N.A.	99.10
0-90	152.96	N.A.	99.90
10-90	125.07	N.A.	81.70
20-40	49.85	N.A.	32.50
20-50	62.15	N.A.	40.60
40-70	19.40	N.A.	12.70
60-80	2.90	N.A.	1.90
70-80	1.24	N.A.	0.80
80-90	1.13	N.A.	0.70
90-110	0.21	N.A.	0.10
90-120	0.21	N.A.	0.10
90-130	0.21	N.A.	0.10
90-150	0.21	N.A.	0.10
90-180	0.21	N.A.	0.10
110-180	0.00	N.A.	0.00
0-180	153.17	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	27.89
10-20	53.44
20-30	31.21
30-40	18.65
40-50	12.29
50-60	5.45
60-70	1.66
70-80	1.24
80-90	1.13
90-100	0.21
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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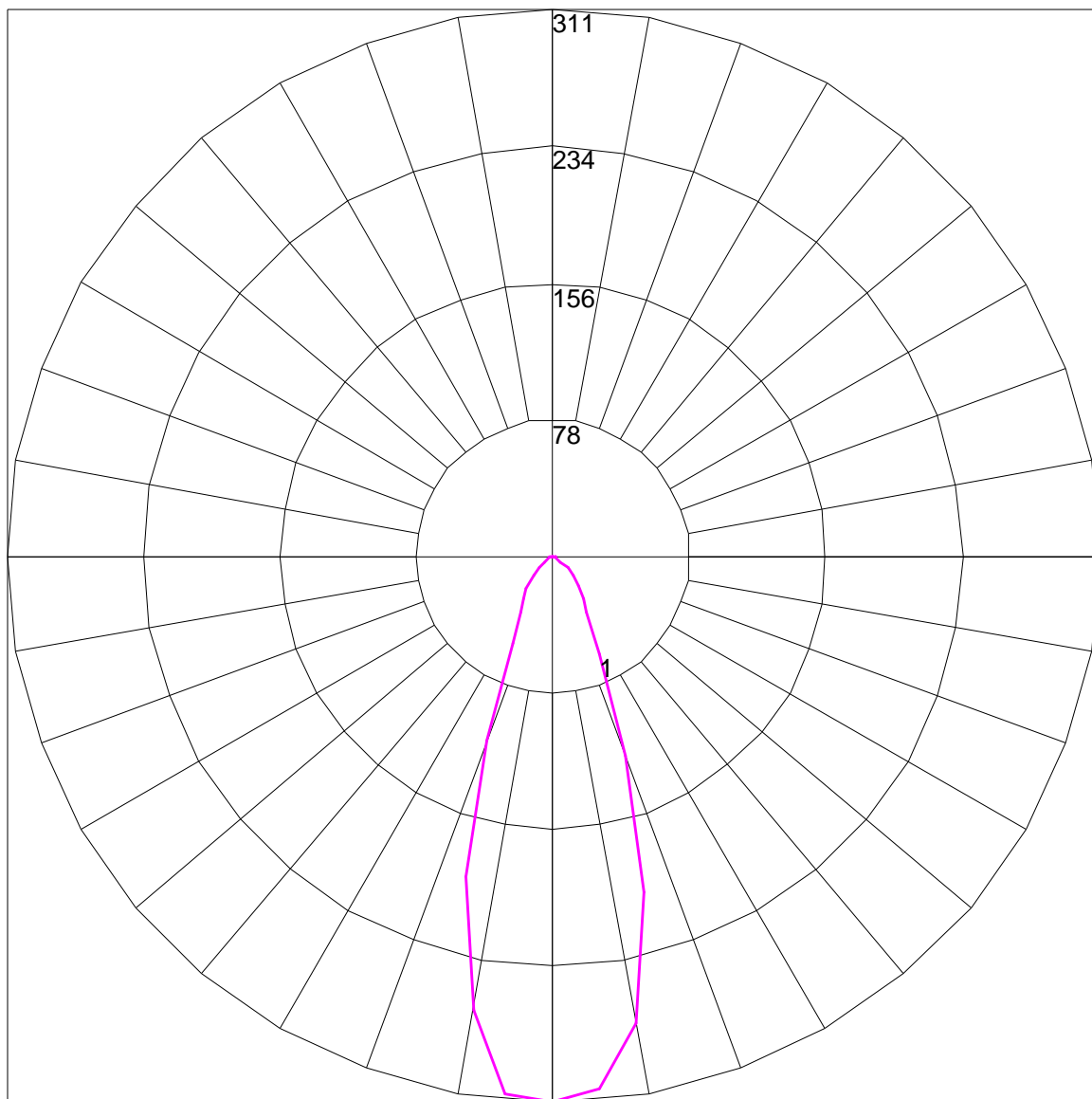
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	111	108	106	111	108	106	104	104	102	101	101	99	98	97	96	95	93
2	108	103	99	96	106	101	98	94	98	95	92	95	93	90	92	90	88	87
3	103	96	91	88	101	95	90	87	92	89	85	90	87	84	88	85	83	81
4	98	91	85	81	96	89	84	81	87	83	80	85	82	79	83	80	78	76
5	93	85	80	76	92	84	79	75	83	78	75	81	77	74	79	76	73	72
6	89	81	75	71	88	80	75	71	78	74	70	77	73	70	76	72	69	68
7	85	77	71	67	84	76	71	67	75	70	66	73	69	66	72	69	66	64
8	82	73	67	63	81	72	67	63	71	66	63	70	66	63	69	65	62	61
9	79	70	64	60	77	69	64	60	68	63	60	67	63	60	66	62	59	58
10	75	66	61	57	75	66	61	57	65	60	57	64	60	57	64	60	57	56

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POLAR GRAPH



Maximum Candela = 311.431 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)