

**IES INDOOR REPORT**

**PHOTOMETRIC FILENAME : SP-00566 ~ DC03XXXT-7LXXK-OSDEX-MWIMW.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] SP-00566\_M-7L  
 [TESTLAB] VLS-245-981  
 [MANUFAC] Spectrum Lighting  
 [ISSUE DATE] 6/6/2017  
 [UPDATE] 9/14/2017  
 [LUMCAT] DC03xxXT-7L-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	240
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	39
Total Luminaire Watts	6.2
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-7LXXK-OSDEX-MWIMW.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	7973	7439	7769
55	5389	4893	4838
65	2764	2144	2095
75	1238	2074	1328
85	3994	3529	3494

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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>	492.132	492.132	492.132	492.132	492.132	492.132	492.132	492.132	492.132	492.132
<b>5</b>	494.939	495.308	493.919	493.645	495.259	493.178	492.941	497.659	497.456	498.589
<b>10</b>	443.866	449.497	457.659	456.747	454.100	450.432	446.137	445.790	443.854	436.477
<b>15</b>	321.199	326.788	338.411	338.499	334.295	330.031	319.643	318.631	317.162	311.657
<b>20</b>	145.733	116.819	104.888	96.913	106.273	123.166	152.254	186.390	186.511	184.177
<b>25</b>	59.353	55.861	54.505	52.676	55.461	58.350	62.675	67.179	73.654	86.153
<b>30</b>	51.174	47.345	46.480	47.435	44.996	49.589	53.347	57.590	63.760	66.664
<b>35</b>	36.636	32.998	30.719	30.797	31.535	34.568	37.555	43.278	47.874	54.054
<b>40</b>	32.027	27.790	27.527	26.826	29.046	30.911	30.482	33.131	35.076	34.847
<b>45</b>	25.735	23.950	24.010	23.791	25.075	24.707	25.578	26.121	26.727	28.805
<b>50</b>	18.640	15.952	19.368	17.270	18.882	19.329	19.007	19.510	19.295	20.411
<b>55</b>	14.109	13.049	12.810	11.582	12.668	12.963	13.455	13.454	13.256	13.175
<b>60</b>	7.338	8.322	8.937	7.285	8.250	7.227	7.482	7.804	8.535	8.148
<b>65</b>	5.332	4.946	4.136	4.488	4.042	4.354	4.768	4.477	4.930	4.975
<b>70</b>	2.733	2.972	3.166	3.302	2.501	3.053	3.438	3.403	3.446	3.066
<b>75</b>	1.463	2.413	2.450	2.574	1.569	1.593	2.673	2.743	2.091	2.639
<b>80</b>	1.674	1.558	2.066	2.369	2.378	1.457	2.454	2.305	2.215	2.722
<b>85</b>	1.589	1.484	1.404	1.511	1.390	1.526	1.927	1.506	2.131	2.329
<b>90</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.977	1.835	1.487
<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>	492.132	492.132	492.132	492.132	492.132	492.132	492.132
<b>5</b>	497.156	497.894	496.792	498.172	497.405	497.699	494.939
<b>10</b>	431.336	431.229	430.928	436.998	441.532	441.422	443.866
<b>15</b>	307.003	305.773	310.975	312.614	316.185	316.797	321.199
<b>20</b>	182.892	180.755	182.880	183.904	186.318	183.762	145.733
<b>25</b>	89.072	94.160	90.545	82.547	72.217	64.699	59.353
<b>30</b>	68.815	69.942	71.271	66.582	62.801	58.061	51.174
<b>35</b>	57.644	59.810	59.136	55.127	51.553	40.617	36.636
<b>40</b>	37.059	40.547	43.318	38.781	34.137	31.993	32.027
<b>45</b>	28.186	29.446	29.745	29.373	29.714	25.657	25.735

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<b>50</b>	21.419	20.649	21.795	21.431	20.868	19.395	18.640
<b>55</b>	14.406	14.462	12.673	14.557	14.062	12.790	14.109
<b>60</b>	9.295	8.685	9.184	8.447	9.134	7.911	7.338
<b>65</b>	5.992	5.414	5.361	5.229	4.682	4.397	5.332
<b>70</b>	3.261	3.874	4.521	2.713	2.648	3.855	2.733
<b>75</b>	1.761	2.514	2.682	1.914	2.355	2.015	1.463
<b>80</b>	2.125	2.324	2.497	1.703	1.875	1.878	1.674
<b>85</b>	1.701	1.777	2.102	1.377	1.217	1.236	1.589
<b>90</b>	1.236	2.174	1.910	1.380	1.467	0.898	0.000
<b>95</b>	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
<b>105</b>	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
<b>115</b>	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
<b>125</b>	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
<b>135</b>	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
<b>145</b>	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
<b>155</b>	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
<b>165</b>	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
<b>175</b>	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

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Zone	Lumens	%Lamp	%Fixt
0-20	130.05	N.A.	54.10
0-30	169.97	N.A.	70.80
0-40	197.87	N.A.	82.40
0-60	230.48	N.A.	95.90
0-80	238.29	N.A.	99.20
0-90	239.98	N.A.	99.90
10-90	194.55	N.A.	81.00
20-40	67.82	N.A.	28.20
20-50	88.28	N.A.	36.80
40-70	37.83	N.A.	15.70
60-80	7.81	N.A.	3.30
70-80	2.58	N.A.	1.10
80-90	1.69	N.A.	0.70
90-110	0.23	N.A.	0.10
90-120	0.23	N.A.	0.10
90-130	0.23	N.A.	0.10
90-150	0.23	N.A.	0.10
90-180	0.23	N.A.	0.10
110-180	0.00	N.A.	0.00
0-180	240.21	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	45.43
10-20	84.62
20-30	39.92
30-40	27.90
40-50	20.45
50-60	12.15
60-70	5.23
70-80	2.58
80-90	1.69
90-100	0.23
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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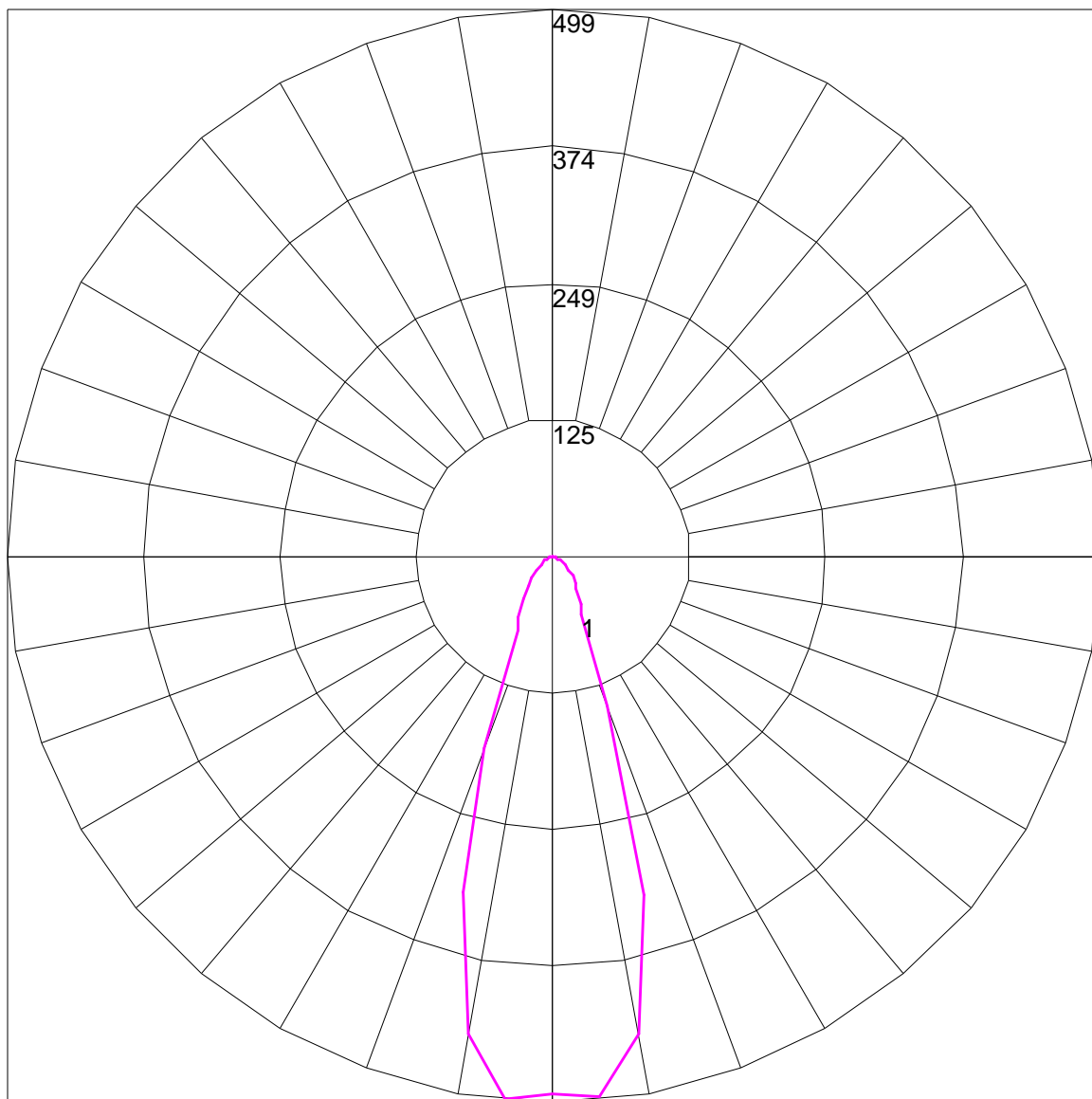
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	94	93
2	107	102	98	95	105	101	97	94	97	94	92	94	92	90	92	90	88	86
3	102	96	90	86	100	94	89	86	92	88	84	89	86	83	87	84	82	80
4	97	90	84	80	95	88	83	79	86	82	78	84	80	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	88	80	74	70	87	79	73	69	77	73	69	76	72	68	75	71	68	67
7	85	76	70	66	83	75	69	66	74	69	65	73	68	65	71	67	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 = 498.589 Located At Horizontal Angle = 202.5, Vertical Angle = 5  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)