

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00566\_2 ~ DC03XXXT-13LXXK-OSDEX-MBIMB.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] SP-00566\_2  
[TESTLAB] VLS-245-981  
[MANUFAC] Spectrum Lighting  
[ISSUE DATE] 6/6/2017  
[UPDATE] 9/14/2017  
[LUMCAT] DCY03xxXT-13L-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

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	277
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	21
Total Luminaire Watts	13
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-13LXXK-OSDEX-MBIMB.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	8731	9683	10005
55	3689	4909	5157
65	1062	1319	1602
75	1678	1271	2139
85	4610	5296	5374

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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>	562.352	562.352	562.352	562.352	562.352	562.352	562.352	562.352	562.352	562.352
<b>5</b>	550.483	554.460	545.427	544.828	538.986	539.801	547.458	544.568	555.802	550.586
<b>10</b>	487.599	480.425	461.268	458.400	447.785	448.313	455.946	452.626	475.892	484.591
<b>15</b>	357.537	348.836	325.194	321.986	311.951	311.295	319.379	318.839	342.935	351.642
<b>20</b>	217.846	208.824	189.331	191.933	182.088	181.621	183.063	184.495	202.940	208.894
<b>25</b>	112.313	100.760	101.963	103.875	101.864	102.992	100.053	97.822	99.072	106.108
<b>30</b>	67.613	72.510	73.410	77.428	75.333	73.600	75.865	70.200	67.341	62.332
<b>35</b>	54.199	57.593	61.568	63.879	60.642	59.139	60.628	56.511	54.376	47.625
<b>40</b>	39.648	45.413	46.134	46.191	47.129	45.997	47.807	42.337	42.524	35.584
<b>45</b>	28.181	32.961	31.254	33.506	32.294	32.558	35.290	29.993	26.963	24.890
<b>50</b>	18.610	20.027	20.281	21.910	21.131	21.398	22.795	20.244	19.838	16.113
<b>55</b>	9.658	12.486	12.852	12.836	13.503	12.343	12.883	11.298	11.537	8.637
<b>60</b>	3.542	5.309	5.618	5.350	6.092	5.331	5.573	4.133	4.463	4.327
<b>65</b>	2.048	2.759	2.545	2.585	3.090	2.552	2.701	2.216	2.428	2.898
<b>70</b>	2.448	2.304	1.962	2.147	2.046	1.931	2.292	2.398	2.239	2.576
<b>75</b>	1.983	1.467	1.501	2.262	2.527	1.517	2.032	2.418	1.769	2.395
<b>80</b>	1.862	1.229	1.835	1.747	1.718	2.290	1.836	1.718	1.796	2.125
<b>85</b>	1.834	2.816	2.107	1.435	2.138	2.830	2.156	2.267	2.484	2.141
<b>90</b>	1.619	0.478	1.268	1.103	1.188	1.769	1.052	2.045	1.045	2.234
<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>	562.352	562.352	562.352	562.352	562.352	562.352	562.352
<b>5</b>	561.553	554.918	560.314	560.007	557.695	561.082	550.483
<b>10</b>	504.699	506.442	521.385	525.415	516.238	516.166	487.599
<b>15</b>	378.885	385.187	401.944	407.799	391.632	390.912	357.537
<b>20</b>	232.090	238.216	254.293	257.216	242.399	241.464	217.846
<b>25</b>	110.433	120.771	124.646	128.462	123.006	116.242	112.313
<b>30</b>	59.238	63.667	65.151	61.175	63.173	63.945	67.613
<b>35</b>	48.619	45.542	47.075	47.388	46.328	48.638	54.199
<b>40</b>	35.990	31.962	32.823	34.658	34.368	37.978	39.648
<b>45</b>	25.798	23.510	23.175	21.901	23.110	25.714	28.181

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**CANDELA TABULATION - (Cont.)**

<b>50</b>	17.485	16.165	16.999	15.685	15.315	16.721	18.610
<b>55</b>	8.342	8.610	8.621	7.202	8.800	8.673	9.658
<b>60</b>	4.396	3.589	3.128	3.496	3.881	3.431	3.542
<b>65</b>	3.231	2.896	2.580	2.599	2.344	2.108	2.048
<b>70</b>	3.069	3.407	2.495	2.658	2.293	2.490	2.448
<b>75</b>	2.284	2.649	2.200	2.702	1.641	2.410	1.983
<b>80</b>	1.774	2.417	1.974	1.537	2.226	1.696	1.862
<b>85</b>	2.760	1.812	2.270	1.557	1.638	1.439	1.834
<b>90</b>	1.429	1.490	2.508	0.827	1.398	0.855	1.619
<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	146.87	N.A.	53.10
0-30	203.22	N.A.	73.50
0-40	236.89	N.A.	85.60
0-60	268.93	N.A.	97.20
0-80	274.16	N.A.	99.10
0-90	276.20	N.A.	99.90
10-90	225.83	N.A.	81.70
20-40	90.02	N.A.	32.50
20-50	112.22	N.A.	40.60
40-70	35.03	N.A.	12.70
60-80	5.24	N.A.	1.90
70-80	2.25	N.A.	0.80
80-90	2.04	N.A.	0.70
90-110	0.38	N.A.	0.10
90-120	0.38	N.A.	0.10
90-130	0.38	N.A.	0.10
90-150	0.38	N.A.	0.10
90-180	0.38	N.A.	0.10
110-180	0.00	N.A.	0.00
0-180	276.58	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	50.37
10-20	96.50
20-30	56.35
30-40	33.67
40-50	22.20
50-60	9.84
60-70	2.99
70-80	2.25
80-90	2.04
90-100	0.38
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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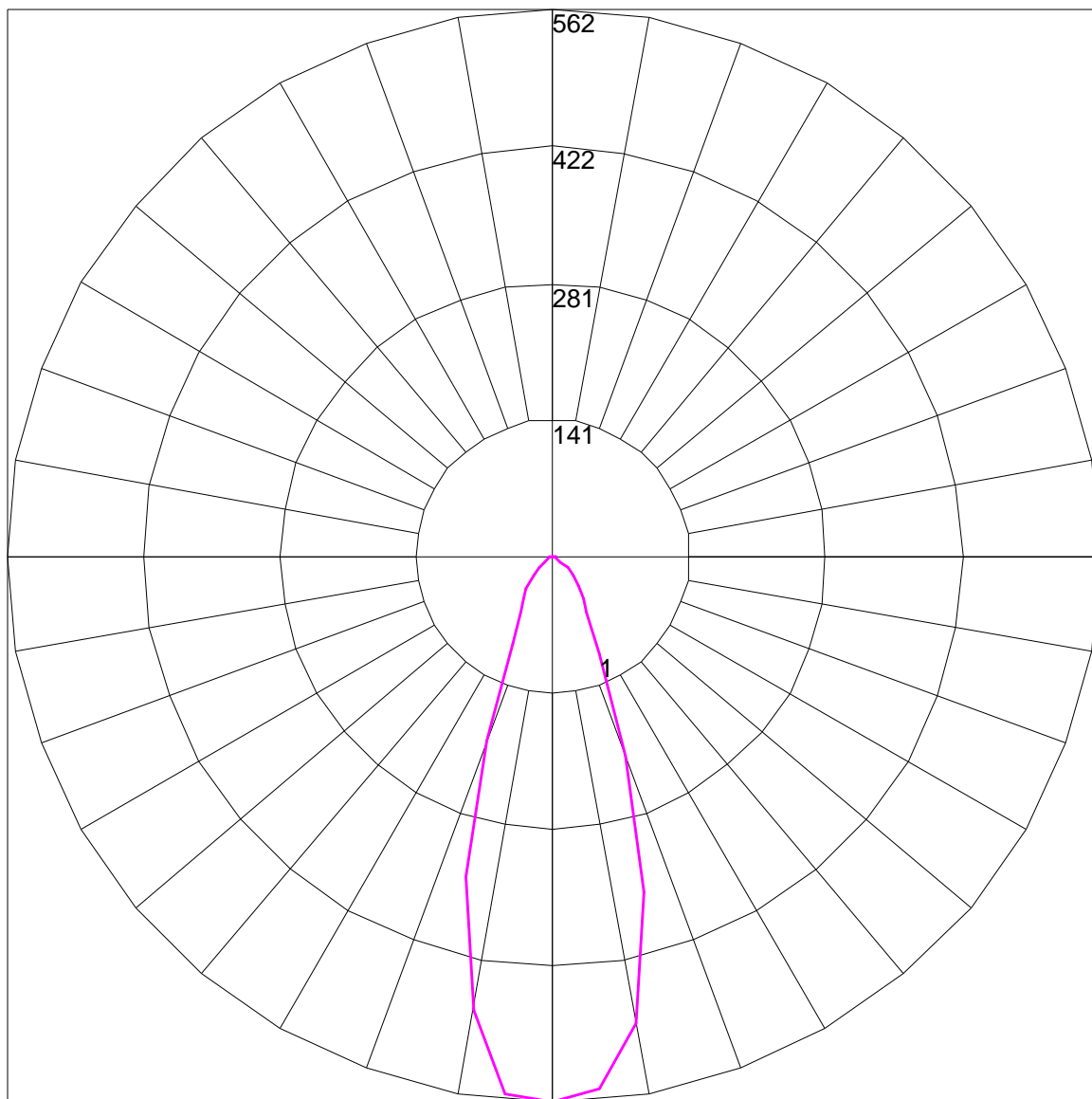
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	103	99	95	105	101	97	94	98	95	92	95	92	90	92	90	88	87
3	102	96	91	87	100	95	90	87	92	88	85	90	87	84	87	85	83	81
4	98	90	85	81	96	89	84	80	87	83	79	85	81	78	83	80	78	76
5	93	85	80	75	92	84	79	75	82	78	74	81	77	74	79	76	73	72
6	89	81	75	71	88	80	74	70	78	74	70	77	73	70	76	72	69	68
7	85	76	71	67	84	76	70	67	74	70	66	73	69	66	72	68	65	64
8	82	73	67	63	80	72	67	63	71	66	63	70	66	63	69	65	62	61
9	78	69	64	60	77	69	64	60	68	63	60	67	63	60	66	62	59	58
10	75	66	61	57	74	66	61	57	65	60	57	64	60	57	64	60	57	56

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POLAR GRAPH



Maximum Candela = 562.352 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)