

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00566\_2 ~ DC03XXXT-10LXXK-OSDEX-MBIMB.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] SP-00566\_2\_M-10L  
[TESTLAB] VLS-245-981  
[MANUFAC] Spectrum Lighting  
[ISSUEDATE] 6/6/2017  
[UPDATE] 9/14/2017  
[LUMCAT] DCY03xxXT-10L-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	205
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	23
Total Luminaire Watts	9.1
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-10LXXK-OSDEX-MBIMB.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	6481	7188	7427
55	2738	3644	3828
65	788	979	1189
75	1246	943	1588
85	3421	3931	3989

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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>	417.434	417.434	417.434	417.434	417.434	417.434	417.434	417.434	417.434	417.434
<b>5</b>	408.624	411.576	404.870	404.426	400.089	400.694	406.378	404.233	412.572	408.700
<b>10</b>	361.945	356.619	342.399	340.270	332.391	332.783	338.449	335.984	353.255	359.712
<b>15</b>	265.400	258.941	241.391	239.010	231.561	231.074	237.075	236.674	254.561	261.024
<b>20</b>	161.707	155.010	140.540	142.472	135.164	134.817	135.888	136.951	150.642	155.062
<b>25</b>	83.370	74.794	75.687	77.106	75.614	76.451	74.269	72.613	73.541	78.764
<b>30</b>	50.189	53.824	54.492	57.475	55.920	54.633	56.315	52.109	49.987	46.269
<b>35</b>	40.232	42.751	45.702	47.417	45.015	43.899	45.004	41.948	40.363	35.352
<b>40</b>	29.431	33.710	34.245	34.288	34.984	34.144	35.487	31.427	31.566	26.414
<b>45</b>	20.919	24.467	23.200	24.872	23.972	24.168	26.196	22.264	20.015	18.476
<b>50</b>	13.814	14.866	15.055	16.264	15.686	15.884	16.921	15.027	14.726	11.961
<b>55</b>	7.169	9.268	9.540	9.528	10.023	9.162	9.563	8.387	8.564	6.411
<b>60</b>	2.629	3.941	4.170	3.971	4.522	3.957	4.137	3.068	3.313	3.212
<b>65</b>	1.520	2.048	1.889	1.919	2.294	1.894	2.005	1.645	1.802	2.151
<b>70</b>	1.817	1.710	1.456	1.594	1.519	1.433	1.701	1.780	1.662	1.912
<b>75</b>	1.472	1.089	1.114	1.679	1.876	1.126	1.508	1.795	1.313	1.778
<b>80</b>	1.382	0.912	1.362	1.297	1.275	1.700	1.363	1.275	1.333	1.577
<b>85</b>	1.361	2.090	1.564	1.065	1.587	2.101	1.600	1.683	1.844	1.589
<b>90</b>	1.202	0.355	0.941	0.819	0.882	1.313	0.781	1.518	0.776	1.658
<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. 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>	417.434	417.434	417.434	417.434	417.434	417.434	417.434
<b>5</b>	416.841	411.916	415.921	415.693	413.977	416.491	408.624
<b>10</b>	374.638	375.932	387.024	390.016	383.203	383.150	361.945
<b>15</b>	281.246	285.924	298.363	302.709	290.708	290.174	265.400
<b>20</b>	172.280	176.828	188.762	190.931	179.933	179.239	161.707
<b>25</b>	81.974	89.648	92.525	95.357	91.307	86.286	83.370
<b>30</b>	43.972	47.260	48.362	45.410	46.893	47.466	50.189
<b>35</b>	36.090	33.806	34.944	35.176	34.389	36.104	40.232
<b>40</b>	26.715	23.725	24.365	25.727	25.511	28.191	29.431
<b>45</b>	19.150	17.451	17.203	16.257	17.155	19.088	20.919

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<b>50</b>	12.979	11.999	12.618	11.643	11.368	12.412	13.814
<b>55</b>	6.192	6.391	6.399	5.346	6.532	6.438	7.169
<b>60</b>	3.263	2.664	2.322	2.595	2.881	2.547	2.629
<b>65</b>	2.398	2.150	1.915	1.929	1.740	1.565	1.520
<b>70</b>	2.278	2.529	1.852	1.973	1.702	1.848	1.817
<b>75</b>	1.695	1.966	1.633	2.006	1.218	1.789	1.472
<b>80</b>	1.317	1.794	1.465	1.141	1.652	1.259	1.382
<b>85</b>	2.049	1.345	1.685	1.156	1.216	1.068	1.361
<b>90</b>	1.061	1.106	1.862	0.614	1.038	0.635	1.202
<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	109.02	N.A.	53.10
0-30	150.85	N.A.	73.50
0-40	175.84	N.A.	85.60
0-60	199.62	N.A.	97.20
0-80	203.51	N.A.	99.10
0-90	205.02	N.A.	99.90
10-90	167.63	N.A.	81.60
20-40	66.82	N.A.	32.50
20-50	83.30	N.A.	40.60
40-70	26.00	N.A.	12.70
60-80	3.89	N.A.	1.90
70-80	1.67	N.A.	0.80
80-90	1.51	N.A.	0.70
90-110	0.28	N.A.	0.10
90-120	0.28	N.A.	0.10
90-130	0.28	N.A.	0.10
90-150	0.28	N.A.	0.10
90-180	0.28	N.A.	0.10
110-180	0.00	N.A.	0.00
0-180	205.31	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	37.39
10-20	71.63
20-30	41.83
30-40	24.99
40-50	16.48
50-60	7.30
60-70	2.22
70-80	1.67
80-90	1.51
90-100	0.28
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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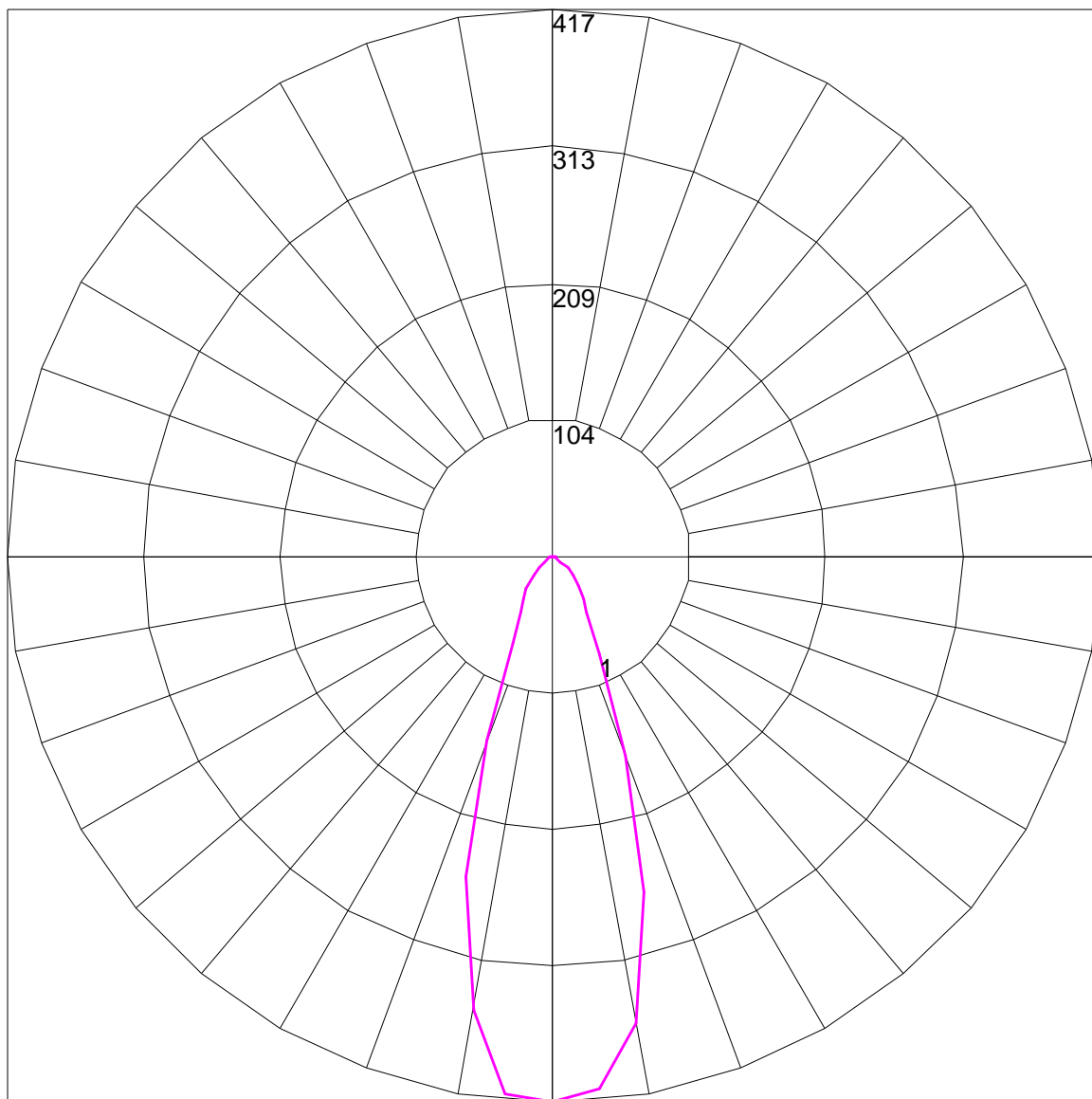
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	74	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	78	69	64	60	68	63	60	67	63	60	66	62	60	58
10	76	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 = 417.434 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)