

**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : SP-00567\_2 ~ C0412XT-13LXXK-NDEX-NLXXMW.IES**
**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] SP-00567\_2\_M-13L  
 [TESTLAB] VLS-245-981  
 [MANUFAC] Spectrum Lighting  
 [ISSUEDATE] 4/17/2017  
 [UPDATE] 5/31/2017  
 [LUMINAIRE] Nom.4" Diam. x 11.5"H. LED Cylinder XT Series, Narrow Beam  
 [LUMCAT] C0412XT-13L-xxK-ND-EX-NL-xx-MW  
 [OTHER] Matte White finish, No lens  
 [OTHER] 18 Degree Beam Angle  
 [LAMP] N/A  
 [LAMPCAT] N/A, Min. 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 50L

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1000
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	77
Total Luminaire Watts	13
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.32
Spacing Criterion (90-270)	0.32
Spacing Criterion (Diagonal)	0.34
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.26 ft (Diameter)
Luminous Width (90-270)	0.26 ft (Diameter)
Luminous Height	0.00 ft

**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	210	110	191
55	125	84	189
65	260	155	192
75	234	252	264
85	407	817	405

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	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
<b>0</b>	6096.862	6096.862	6096.862	6096.862	6096.862
<b>5</b>	4891.523	4954.966	4893.987	4927.808	4849.057
<b>10</b>	2583.783	2586.043	2598.819	2583.719	2591.806
<b>15</b>	1118.035	1129.394	1146.214	1137.719	1163.577
<b>20</b>	575.432	580.762	596.249	599.586	617.108
<b>25</b>	379.460	389.288	393.091	402.457	408.666
<b>30</b>	213.425	223.263	225.339	236.798	236.494
<b>35</b>	54.694	52.775	57.906	59.329	67.064
<b>40</b>	1.530	0.989	1.119	1.243	2.002
<b>45</b>	0.760	0.391	0.398	0.409	0.694
<b>50</b>	0.405	0.454	0.274	0.293	0.721
<b>55</b>	0.368	0.188	0.246	0.474	0.557
<b>60</b>	0.386	0.302	0.359	0.420	0.516
<b>65</b>	0.563	0.507	0.336	0.355	0.416
<b>70</b>	0.443	0.216	0.405	0.285	0.262
<b>75</b>	0.310	0.185	0.334	0.306	0.351
<b>80</b>	0.449	0.773	0.396	0.431	0.424
<b>85</b>	0.182	0.326	0.365	0.223	0.181
<b>90</b>	0.377	0.136	0.299	0.308	0.436

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Zone	Lumens	%Lamp	%Fixt
0-20	763.77	N.A.	76.40
0-30	946.15	N.A.	94.60
0-40	998.00	N.A.	99.80
0-60	998.84	N.A.	99.90
0-80	999.59	N.A.	100.00
0-90	999.96	N.A.	100.00
10-90	600.02	N.A.	60.00
20-40	234.23	N.A.	23.40
20-50	234.73	N.A.	23.50
40-70	1.21	N.A.	0.10
60-80	0.75	N.A.	0.10
70-80	0.37	N.A.	0.00
80-90	0.37	N.A.	0.00
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	999.96	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	399.93
10-20	363.84
20-30	182.37
30-40	51.86
40-50	0.50
50-60	0.33
60-70	0.38
70-80	0.37
80-90	0.37
90-100	0.00
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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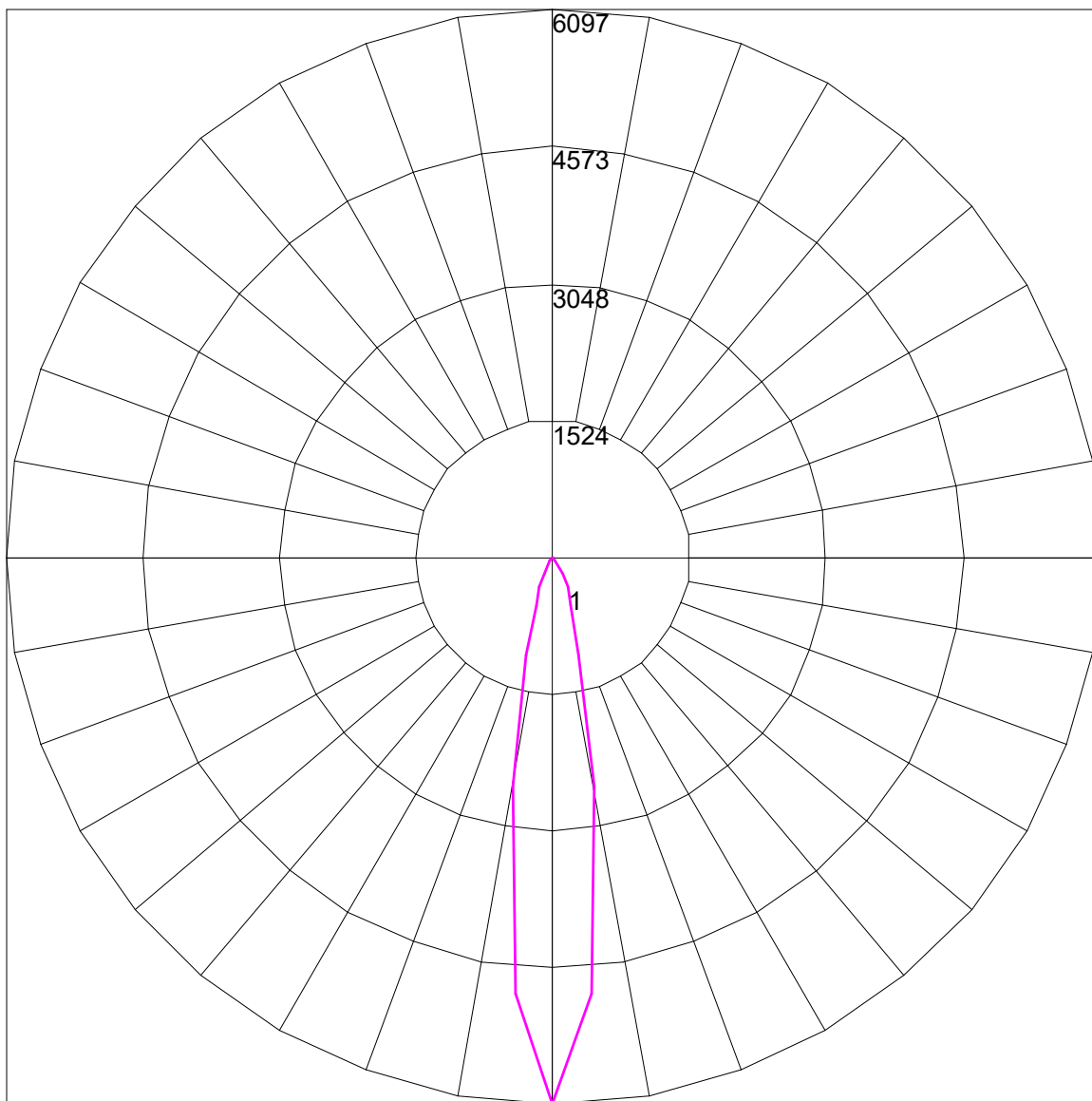
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## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	115	113	111	109	113	111	109	108	107	106	104	103	102	101	100	99	98	97
2	111	108	105	102	109	106	104	101	103	101	99	100	98	97	98	96	95	94
3	108	103	100	97	106	102	99	96	100	97	95	97	95	93	95	93	92	91
4	105	99	95	93	103	98	95	92	96	93	91	95	92	90	93	91	89	88
5	102	96	92	89	100	95	91	88	93	90	88	92	89	87	90	88	86	85
6	99	93	89	86	98	92	88	85	91	87	85	89	86	84	88	86	84	83
7	96	90	86	83	95	89	85	83	88	85	82	87	84	82	86	83	81	80
8	93	87	83	80	93	87	83	80	86	82	80	85	82	79	84	81	79	78
9	91	85	81	78	90	84	80	78	83	80	78	83	80	77	82	79	77	76
10	89	82	78	76	88	82	78	76	81	78	76	81	78	75	80	77	75	74

POLAR GRAPH



Maximum Candela = 6096.862 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)