

**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : SP-00567\_6 ~ C0412XT-13LXXK-MDEX-NLXXMW.IES**
**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] SP-00567\_6\_M-13L  
 [TESTLAB] VLS-245-981  
 [MANUFAC] Spectrum Lighting  
 [ISSUEDATE] 4/17/2017  
 [UPDATE] 6/1/2017  
 [LUMINAIRE] Nom.4" Diam x 11.5"H. LED Cylinder XT Series, Medium Beam  
 [LUMCAT] C0412XT-13L-xxK-MD-EX-NL-xx-MW  
 [OTHER] Matte White finish, No Lens  
 [OTHER] 26.9 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	926
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	71
Total Luminaire Watts	13
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.46
Spacing Criterion (90-270)	0.46
Spacing Criterion (Diagonal)	0.48
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	148	127	161
55	207	132	176
65	166	192	242
75	261	197	188
85	689	685	367

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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>	3178.128	3178.128	3178.128	3178.128	3178.128
<b>5</b>	2951.060	2911.560	2930.891	2884.357	2881.065
<b>10</b>	2161.976	2159.171	2157.800	2138.845	2146.784
<b>15</b>	1328.005	1351.901	1337.273	1343.335	1347.768
<b>20</b>	783.477	800.535	784.241	793.547	790.537
<b>25</b>	480.732	486.888	479.458	483.022	477.267
<b>30</b>	265.247	263.839	260.242	252.887	249.642
<b>35</b>	58.580	70.276	61.843	67.461	65.739
<b>40</b>	1.100	2.134	1.534	2.644	2.155
<b>45</b>	0.538	0.814	0.462	0.492	0.584
<b>50</b>	0.610	0.434	0.564	0.363	0.538
<b>55</b>	0.610	0.458	0.389	0.417	0.519
<b>60</b>	0.566	0.458	0.313	0.350	0.622
<b>65</b>	0.360	0.263	0.416	0.184	0.525
<b>70</b>	0.357	0.239	0.396	0.287	0.368
<b>75</b>	0.347	0.441	0.261	0.236	0.250
<b>80</b>	0.272	0.250	0.164	0.218	0.444
<b>85</b>	0.308	0.573	0.306	0.451	0.164
<b>90</b>	0.295	0.332	0.362	0.328	0.567

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Zone	Lumens	%Lamp	%Fixt
0-20	637.12	N.A.	68.80
0-30	864.41	N.A.	93.40
0-40	923.37	N.A.	99.80
0-60	924.47	N.A.	99.90
0-80	925.14	N.A.	100.00
0-90	925.52	N.A.	100.00
10-90	671.60	N.A.	72.60
20-40	286.26	N.A.	30.90
20-50	286.95	N.A.	31.00
40-70	1.45	N.A.	0.20
60-80	0.66	N.A.	0.10
70-80	0.31	N.A.	0.00
80-90	0.38	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	925.52	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	253.92
10-20	383.20
20-30	227.29
30-40	58.97
40-50	0.69
50-60	0.41
60-70	0.35
70-80	0.31
80-90	0.38
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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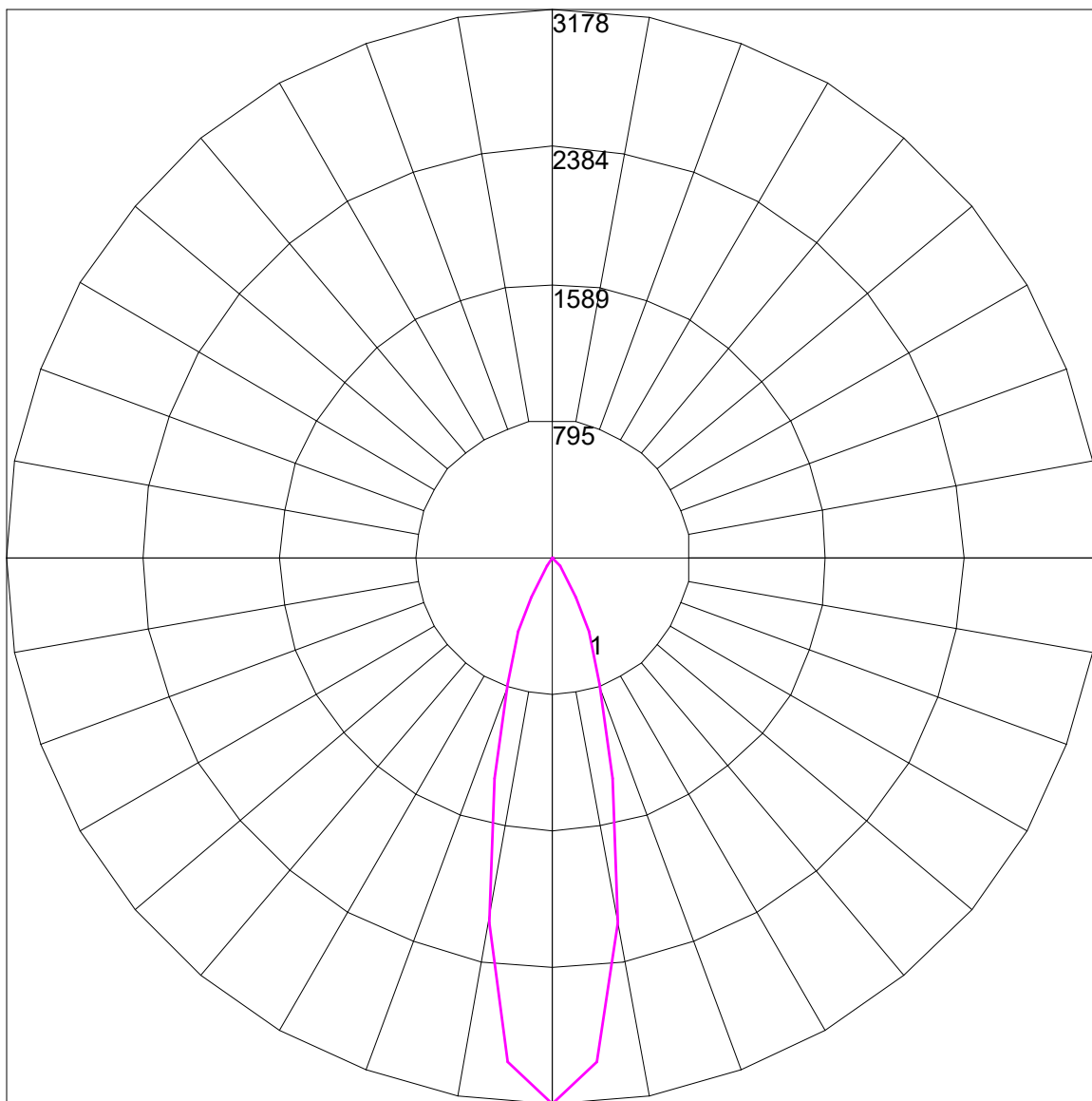
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## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	112	110	109	112	110	108	107	106	105	104	103	102	101	99	98	98	96
2	111	107	103	101	108	105	102	100	102	100	98	99	97	96	96	95	94	92
3	107	102	98	95	105	100	97	94	98	95	92	96	93	91	93	91	90	88
4	103	97	93	90	101	96	92	89	94	91	88	92	89	87	90	88	86	85
5	99	93	89	85	98	92	88	85	91	87	84	89	86	84	88	85	83	82
6	96	89	85	82	95	89	84	81	87	84	81	86	83	80	85	82	80	79
7	93	86	81	78	92	85	81	78	84	80	78	83	80	77	82	79	77	76
8	90	83	78	75	89	82	78	75	81	77	75	80	77	74	80	76	74	73
9	87	80	75	72	86	79	75	72	79	75	72	78	74	72	77	74	72	71
10	85	77	73	70	84	77	73	70	76	72	70	75	72	69	75	72	69	68

POLAR GRAPH



Maximum Candela = 3178.128 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)