

**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : SP-00567\_6 ~ C0412XT-20LXXK-MDEX-NLXXMW.IES**
**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] SP-00567\_6\_M-20L  
 [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-20L-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	1424
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	66
Total Luminaire Watts	21.7
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	228	196	248
55	319	204	271
65	256	295	373
75	402	302	289
85	1058	1051	564

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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>	4889.428	4889.428	4889.428	4889.428	4889.428
<b>5</b>	4540.092	4479.324	4509.064	4437.472	4432.408
<b>10</b>	3326.117	3321.802	3319.693	3290.532	3302.744
<b>15</b>	2043.085	2079.848	2057.343	2066.669	2073.490
<b>20</b>	1205.349	1231.592	1206.524	1220.841	1216.211
<b>25</b>	739.587	749.059	737.628	743.111	734.257
<b>30</b>	408.072	405.907	400.372	389.056	384.064
<b>35</b>	90.123	108.117	95.142	103.786	101.136
<b>40</b>	1.692	3.283	2.360	4.068	3.315
<b>45</b>	0.828	1.253	0.710	0.757	0.898
<b>50</b>	0.938	0.668	0.868	0.559	0.828
<b>55</b>	0.938	0.704	0.599	0.641	0.798
<b>60</b>	0.871	0.705	0.482	0.538	0.956
<b>65</b>	0.554	0.404	0.640	0.283	0.808
<b>70</b>	0.549	0.368	0.609	0.441	0.566
<b>75</b>	0.534	0.679	0.401	0.363	0.384
<b>80</b>	0.418	0.384	0.253	0.336	0.683
<b>85</b>	0.473	0.882	0.470	0.694	0.252
<b>90</b>	0.453	0.511	0.556	0.505	0.872

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Zone	Lumens	%Lamp	%Fixt
0-20	980.18	N.A.	68.80
0-30	1329.86	N.A.	93.40
0-40	1420.58	N.A.	99.80
0-60	1422.27	N.A.	99.90
0-80	1423.29	N.A.	100.00
0-90	1423.87	N.A.	100.00
10-90	1033.23	N.A.	72.60
20-40	440.40	N.A.	30.90
20-50	441.46	N.A.	31.00
40-70	2.23	N.A.	0.20
60-80	1.02	N.A.	0.10
70-80	0.48	N.A.	0.00
80-90	0.58	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	1423.87	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	390.65
10-20	589.53
20-30	349.68
30-40	90.72
40-50	1.06
50-60	0.63
60-70	0.53
70-80	0.48
80-90	0.58
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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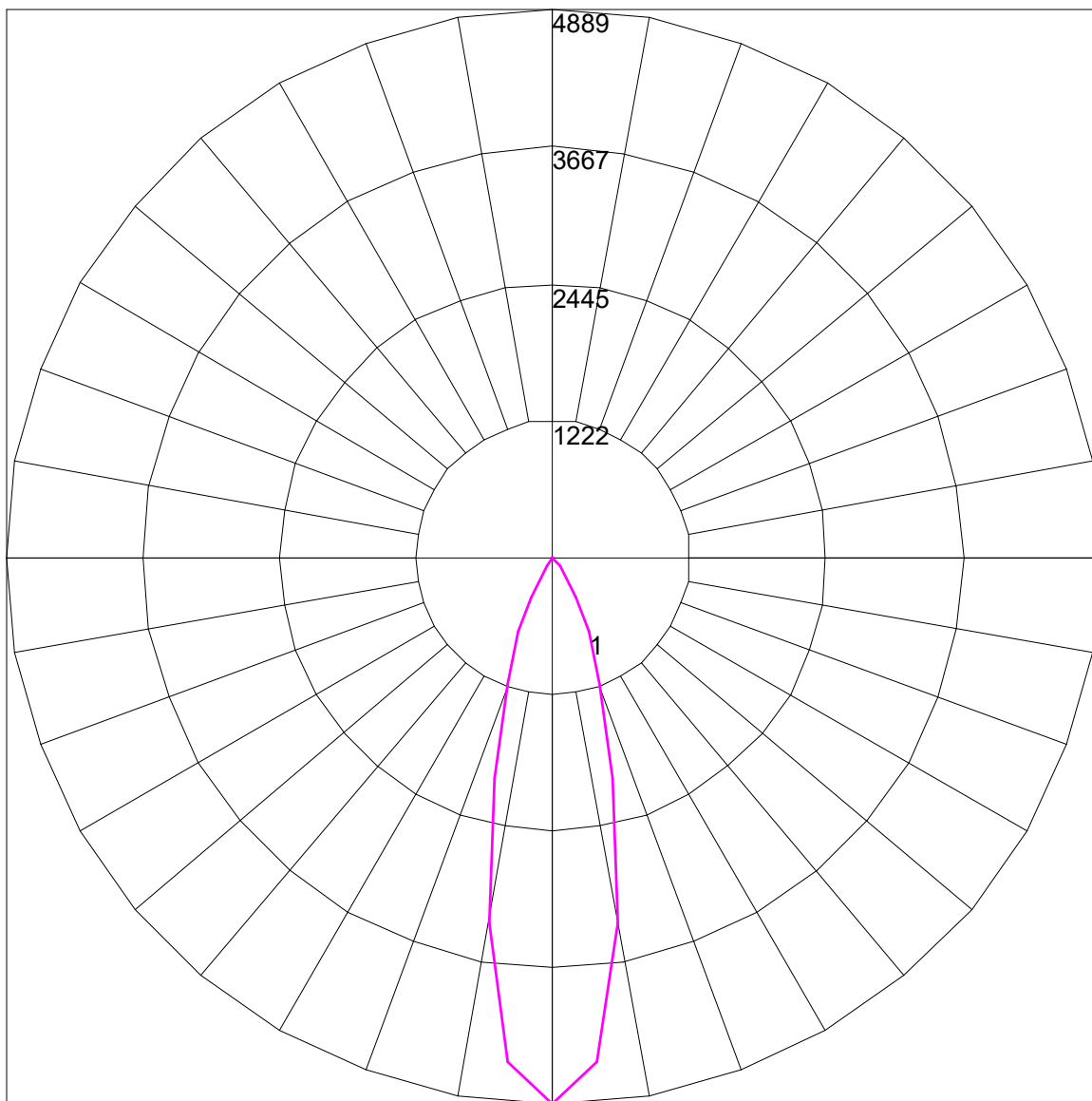
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## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	109	107	106	105	104	103	102	101	99	98	98	96
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	96	95	94	92
3	107	102	98	95	105	100	97	94	98	95	93	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	78	75	80	77	74	80	77	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 = 4889.428 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)