

**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : SP-00567\_13 ~ C0412XT-13LXXK-XWEX-GLXXMW.IES**
**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] SP-00567\_13\_M-13L  
 [TESTLAB] VLS-245-981  
 [MANUFAC] Spectrum Lighting  
 [ISSUEDATE] 4/17/2017  
 [UPDATE] 6/2/2017  
 [LUMINAIRE] Nom.4" Diam x 11.5"H. LED Cylinder XT Series, Xtra Wide Beam  
 [LUMCAT] C0412XT-13L-xxK-XW-EX-GL-xx-MW  
 [OTHER] Matte White finish, Clear Glass Lens  
 [OTHER] 56.1 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	913
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	70
Total Luminaire Watts	13
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.90
Spacing Criterion (90-270)	0.92
Spacing Criterion (Diagonal)	0.84
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	5760	5710	5558
55	667	563	495
65	327	352	355
75	608	492	751
85	899	895	1121

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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>	1193.964	1193.964	1193.964	1193.964	1193.964
<b>5</b>	1158.796	1162.975	1170.517	1176.996	1187.974
<b>10</b>	1093.927	1101.915	1111.626	1124.850	1130.792
<b>15</b>	1018.265	1025.268	1034.131	1049.850	1053.281
<b>20</b>	915.429	920.879	927.994	941.800	940.834
<b>25</b>	753.553	759.967	758.819	771.093	760.618
<b>30</b>	498.102	501.386	501.048	506.912	498.180
<b>35</b>	215.594	215.155	213.700	202.900	208.738
<b>40</b>	63.356	67.694	62.496	62.285	62.746
<b>45</b>	20.888	21.362	20.709	19.406	20.155
<b>50</b>	6.313	6.758	5.893	4.913	5.468
<b>55</b>	1.961	1.926	1.656	1.553	1.457
<b>60</b>	0.858	0.965	0.830	0.796	0.857
<b>65</b>	0.709	0.473	0.763	0.666	0.769
<b>70</b>	0.910	1.033	0.834	0.727	0.765
<b>75</b>	0.807	1.019	0.653	0.687	0.997
<b>80</b>	0.454	0.433	0.431	0.582	0.488
<b>85</b>	0.402	0.329	0.400	0.386	0.501
<b>90</b>	0.437	0.430	0.634	0.362	0.367

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Zone	Lumens	%Lamp	%Fixt
0-20	399.46	N.A.	43.80
0-30	736.77	N.A.	80.70
0-40	887.61	N.A.	97.20
0-60	910.80	N.A.	99.80
0-80	912.34	N.A.	99.90
0-90	912.81	N.A.	100.00
10-90	802.84	N.A.	88.00
20-40	488.14	N.A.	53.50
20-50	509.09	N.A.	55.80
40-70	23.95	N.A.	2.60
60-80	1.54	N.A.	0.20
70-80	0.78	N.A.	0.10
80-90	0.47	N.A.	0.10
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	912.81	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	109.97
10-20	289.50
20-30	337.31
30-40	150.83
40-50	20.95
50-60	2.24
60-70	0.75
70-80	0.78
80-90	0.47
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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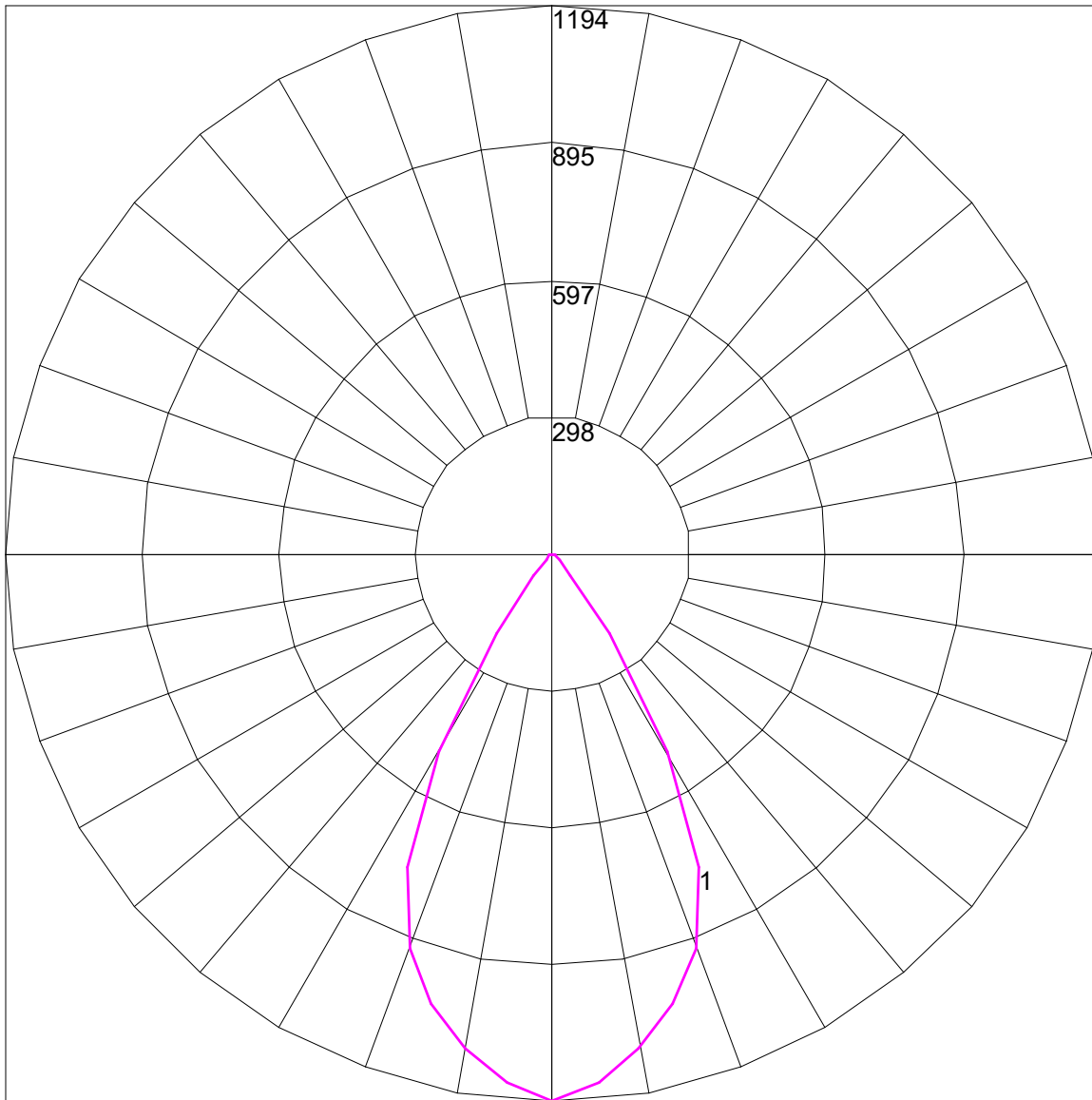
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## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94
2	109	104	100	97	106	102	99	96	99	96	94	96	94	92	94	92	90	88
3	104	98	93	89	102	96	92	89	94	90	87	91	88	86	89	87	85	83
4	99	92	87	83	97	91	86	82	89	85	81	87	83	80	85	82	79	78
5	94	87	81	77	93	86	81	77	84	79	76	82	78	75	81	77	75	73
6	90	82	76	72	89	81	76	72	79	75	71	78	74	71	77	73	70	69
7	86	77	72	68	85	77	71	67	75	71	67	74	70	67	73	69	66	65
8	82	73	68	64	81	73	67	64	72	67	63	71	66	63	70	66	63	61
9	78	69	64	60	77	69	64	60	68	63	60	67	63	60	66	62	59	58
10	75	66	60	57	74	65	60	57	65	60	57	64	60	56	63	59	56	55

POLAR GRAPH



Maximum Candela = 1193.964 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)