

**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : SP-00567\_11 ~ C0412XT-20LXXK-WDEX-SOXXMW.IES**
**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] SP-00567\_11\_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, Wide Beam  
 [LUMCAT] C0412XT-20L-xxK-WD-EX-SO-xx-MW  
 [OTHER] Matte White finish, Solite Lens  
 [OTHER] 38 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	1345
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	62
Total Luminaire Watts	21.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.62
Spacing Criterion (90-270)	0.62
Spacing Criterion (Diagonal)	0.64
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	7413	5881	7994
55	2045	2193	2493
65	970	1033	999
75	869	554	1102
85	1555	1383	1300

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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>	2880.368	2880.368	2880.368	2880.368	2880.368
<b>5</b>	2754.127	2769.250	2771.332	2779.070	2792.123
<b>10</b>	2409.744	2422.137	2424.183	2428.852	2444.553
<b>15</b>	1887.168	1890.906	1889.627	1890.568	1895.312
<b>20</b>	1325.428	1320.666	1323.492	1322.999	1331.641
<b>25</b>	845.200	842.812	844.112	855.534	864.283
<b>30</b>	456.570	460.818	458.746	468.453	480.760
<b>35</b>	184.286	196.234	195.549	197.875	203.435
<b>40</b>	66.144	67.873	63.366	67.294	72.521
<b>45</b>	26.885	25.159	21.330	23.946	28.993
<b>50</b>	13.894	12.077	10.292	11.075	13.721
<b>55</b>	6.015	6.413	6.451	6.306	7.334
<b>60</b>	3.882	3.561	3.818	4.263	3.589
<b>65</b>	2.103	1.928	2.239	2.638	2.166
<b>70</b>	1.604	1.421	1.726	1.254	1.528
<b>75</b>	1.154	1.138	0.736	1.214	1.463
<b>80</b>	0.573	0.703	0.808	0.935	0.706
<b>85</b>	0.695	0.545	0.618	0.607	0.581
<b>90</b>	0.357	0.468	0.503	0.497	0.558

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Zone	Lumens	%Lamp	%Fixt
0-20	774.52	N.A.	57.60
0-30	1168.67	N.A.	86.90
0-40	1309.72	N.A.	97.40
0-60	1340.38	N.A.	99.70
0-80	1343.98	N.A.	99.90
0-90	1344.65	N.A.	100.00
10-90	1091.09	N.A.	81.10
20-40	535.20	N.A.	39.80
20-50	559.51	N.A.	41.60
40-70	33.09	N.A.	2.50
60-80	3.60	N.A.	0.30
70-80	1.18	N.A.	0.10
80-90	0.67	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	1344.65	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	253.56
10-20	520.95
20-30	394.15
30-40	141.05
40-50	24.31
50-60	6.36
60-70	2.42
70-80	1.18
80-90	0.67
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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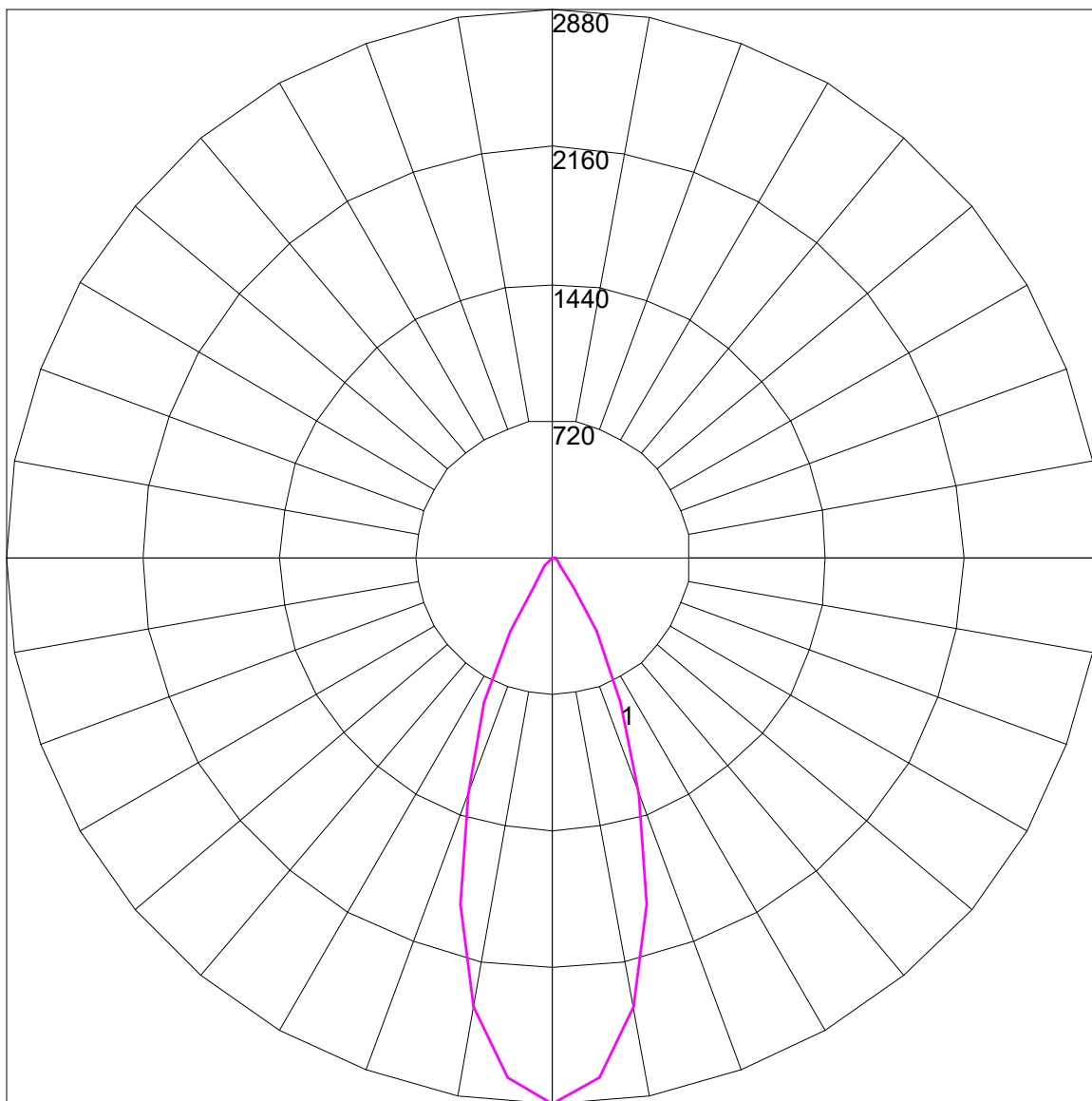
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## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95
2	110	105	102	99	107	104	100	98	100	98	96	98	95	94	95	93	92	90
3	105	100	95	92	103	98	94	91	96	92	90	93	91	88	91	89	87	86
4	101	94	90	86	99	93	89	85	91	87	84	89	86	84	87	85	83	81
5	97	90	85	81	95	89	84	81	87	83	80	85	82	79	84	81	79	77
6	93	85	80	77	92	85	80	76	83	79	76	82	78	75	81	77	75	74
7	89	81	76	73	88	81	76	73	80	75	72	78	75	72	77	74	71	70
8	86	78	73	69	85	77	72	69	76	72	69	75	71	69	74	71	68	67
9	83	74	69	66	82	74	69	66	73	69	66	72	68	66	72	68	65	64
10	80	71	66	63	79	71	66	63	70	66	63	70	66	63	69	65	63	61

POLAR GRAPH



Maximum Candela = 2880.368 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)