

**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : SP-00567\_7 ~ C0412XT-10LXXK-MDEX-SOXXMW.IES**
**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] SP-00567\_7\_M-10L  
 [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, Medium Beam  
 [LUMCAT] C0412XT-10L-xxK-MD-EX-SO-xx-MW  
 [OTHER] Matte White finish, Solite Lens  
 [OTHER] 28.2 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	648
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	71
Total Luminaire Watts	9.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.48
Spacing Criterion (90-270)	0.48
Spacing Criterion (Diagonal)	0.52
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	2982	3104	2844
55	779	856	849
65	482	482	600
75	393	423	322
85	685	1087	622

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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>	1970.360	1970.360	1970.360	1970.360	1970.360
<b>5</b>	1802.350	1792.216	1816.007	1784.705	1808.687
<b>10</b>	1368.034	1367.633	1371.026	1361.365	1374.647
<b>15</b>	901.110	906.343	901.079	902.830	905.858
<b>20</b>	558.945	564.903	559.792	562.782	562.696
<b>25</b>	341.850	345.208	344.335	345.528	345.145
<b>30</b>	187.111	188.777	189.746	187.903	188.335
<b>35</b>	79.094	78.162	79.519	76.391	80.615
<b>40</b>	27.486	27.262	28.212	28.056	29.162
<b>45</b>	10.814	10.134	11.258	10.117	10.315
<b>50</b>	4.590	4.640	5.004	4.867	4.237
<b>55</b>	2.293	2.397	2.517	2.814	2.499
<b>60</b>	1.487	1.249	1.557	2.012	1.644
<b>65</b>	1.045	0.897	1.045	0.944	1.301
<b>70</b>	0.710	0.647	0.638	0.749	0.837
<b>75</b>	0.522	0.433	0.561	0.483	0.427
<b>80</b>	0.351	0.515	0.395	0.444	0.481
<b>85</b>	0.306	0.307	0.486	0.406	0.278
<b>90</b>	0.344	0.314	0.424	0.279	0.262

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Zone	Lumens	%Lamp	%Fixt
0-20	413.89	N.A.	63.80
0-30	576.46	N.A.	88.90
0-40	633.54	N.A.	97.70
0-60	646.28	N.A.	99.70
0-80	647.91	N.A.	99.90
0-90	648.32	N.A.	100.00
10-90	489.94	N.A.	75.60
20-40	219.65	N.A.	33.90
20-50	229.86	N.A.	35.50
40-70	13.81	N.A.	2.10
60-80	1.63	N.A.	0.30
70-80	0.56	N.A.	0.10
80-90	0.41	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	648.32	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	158.38
10-20	255.51
20-30	162.57
30-40	57.08
40-50	10.21
50-60	2.53
60-70	1.07
70-80	0.56
80-90	0.41
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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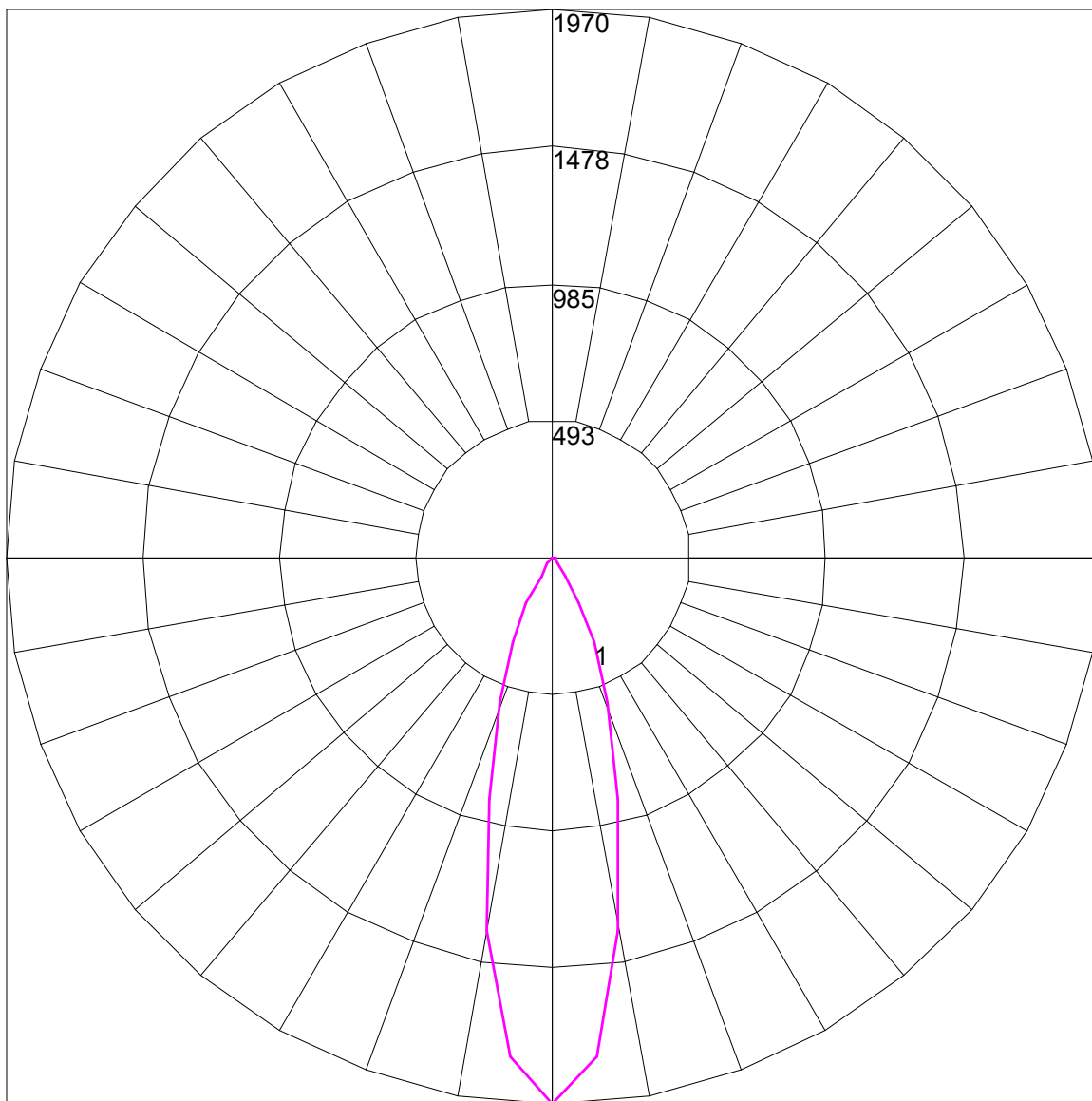
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## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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

POLAR GRAPH



Maximum Candela = 1970.36 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)