

**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : SP-00567\_8 ~ C0412XT-40LXXK-WDEX-BBXXMW.IES**
**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] SP-00567.8\_M-40L  
 [TESTLAB] VLS-245-981  
 [MANUFAC] Spectrum Lighting  
 [ISSUEDATE] 4/17/2017  
 [UPDATE] 6/7/2017  
 [LUMINAIRE] Nom.4" Diam x 11.5"H. LED Cylinder XT Series, Wide Beam  
 [LUMCAT] C0412XT-40L-xxK-WD-EX-BB-xx-MW  
 [OTHER] Matte White finish, Black baffle, no lens  
 [OTHER] 37.3 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	2800
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	74
Total Luminaire Watts	37.9
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.62
Spacing Criterion (90-270)	0.62
Spacing Criterion (Diagonal)	0.62
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	3298	3290	3302
55	1413	1889	2111
65	593	1365	1459
75	1418	2032	2330
85	2553	2342	2436

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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>	6474.525	6474.525	6474.525	6474.525	6474.525
<b>5</b>	6267.436	6269.932	6240.126	6237.108	6178.932
<b>10</b>	5502.337	5485.970	5462.803	5468.742	5385.608
<b>15</b>	4232.948	4216.623	4197.354	4228.259	4134.734
<b>20</b>	2866.393	2852.578	2848.535	2843.106	2815.912
<b>25</b>	1830.075	1818.416	1810.571	1804.437	1797.912
<b>30</b>	972.571	955.883	933.356	938.484	895.339
<b>35</b>	246.883	239.999	252.635	220.628	238.415
<b>40</b>	20.105	18.544	25.093	19.178	26.192
<b>45</b>	11.962	10.029	11.933	11.099	11.975
<b>50</b>	6.843	6.581	6.848	6.358	8.313
<b>55</b>	4.156	3.812	5.556	6.068	6.209
<b>60</b>	3.286	2.894	3.771	3.586	4.675
<b>65</b>	1.285	2.296	2.958	2.334	3.162
<b>70</b>	1.572	2.565	2.888	2.210	2.476
<b>75</b>	1.882	2.955	2.698	2.415	3.093
<b>80</b>	1.314	0.697	0.782	1.361	0.894
<b>85</b>	1.141	0.783	1.047	1.123	1.089
<b>90</b>	0.661	0.932	0.524	1.059	1.313

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Zone	Lumens	%Lamp	%Fixt
0-20	1725.84	N.A.	61.60
0-30	2562.71	N.A.	91.50
0-40	2779.84	N.A.	99.30
0-60	2794.18	N.A.	99.80
0-80	2799.17	N.A.	100.00
0-90	2800.23	N.A.	100.00
10-90	2229.37	N.A.	79.60
20-40	1053.99	N.A.	37.60
20-50	1063.71	N.A.	38.00
40-70	17.04	N.A.	0.60
60-80	4.99	N.A.	0.20
70-80	2.29	N.A.	0.10
80-90	1.06	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	2800.23	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	570.86
10-20	1154.98
20-30	836.86
30-40	217.13
40-50	9.72
50-60	4.62
60-70	2.70
70-80	2.29
80-90	1.06
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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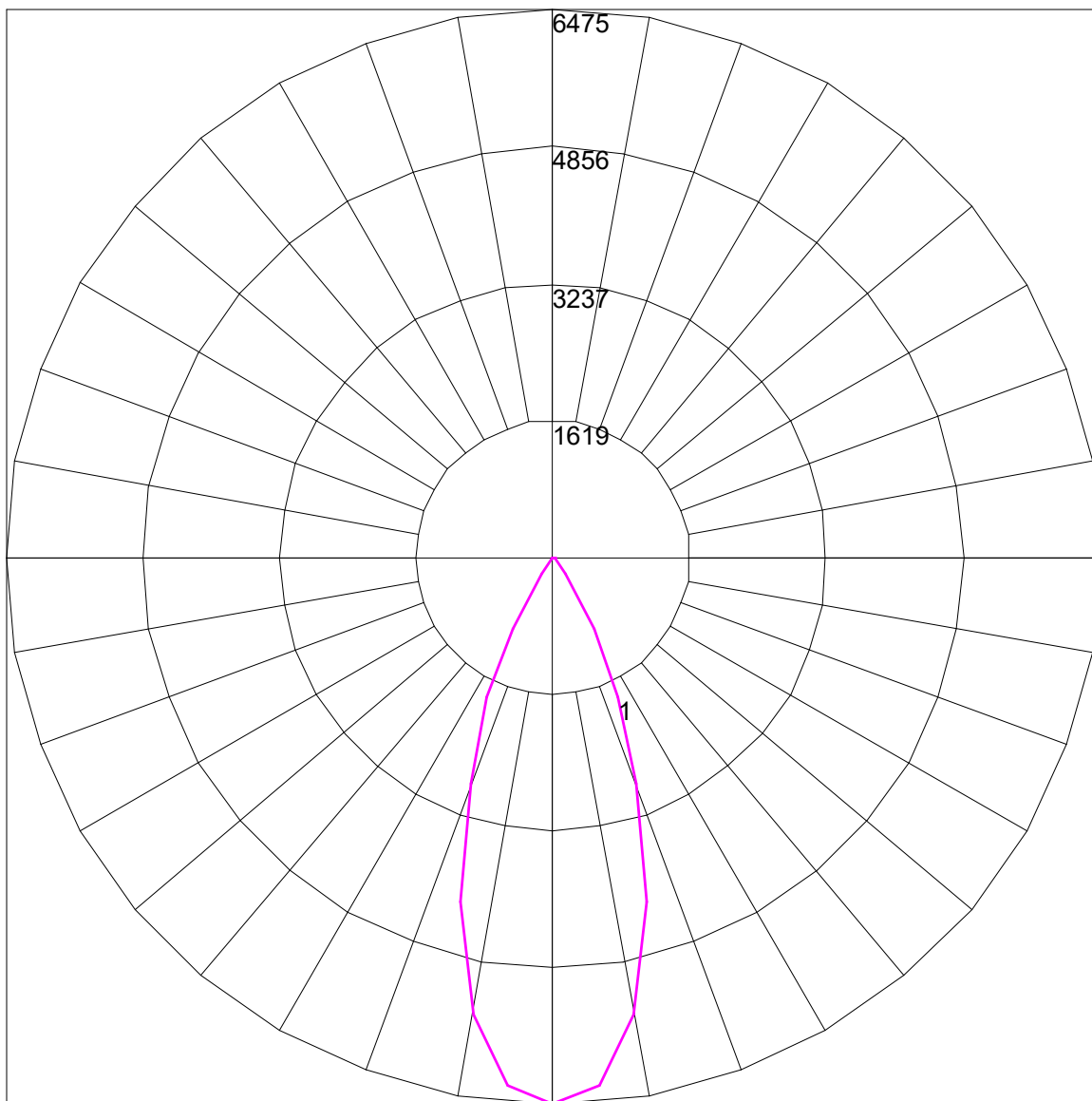
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## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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

POLAR GRAPH



Maximum Candela = 6474.525 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)