

**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : SP-00567\_15 ~ C0412XT-40LXXK-XWEX-SOXXMW.IES**
**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] SP-00567\_15\_M-40L  
 [TESTLAB] VLS-245-981  
 [MANUFAC] Spectrum Lighting  
 [ISSUEDATE] 4/17/2017  
 [UPDATE] 6/5/2017  
 [LUMINAIRE] Nom.4" Diam x 11.5"H. LED Cylinder XT Series, Xtra Wide Beam  
 [LUMCAT] C0412XT-40L-xxK-WD-EX-SO-xx-MW  
 [OTHER] Matte White finish, Solite Lens  
 [OTHER] 55.1 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	2656
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	70
Total Luminaire Watts	37.9
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.84
Spacing Criterion (90-270)	0.88
Spacing Criterion (Diagonal)	0.82
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	28185	27283	32547
55	7358	6242	7996
65	3220	3575	3234
75	2612	2721	1782
85	4438	3362	3367

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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>	3506.826	3506.826	3506.826	3506.826	3506.826
<b>5</b>	3432.584	3461.013	3465.230	3473.152	3465.221
<b>10</b>	3266.067	3302.394	3292.990	3321.959	3315.449
<b>15</b>	2999.726	3030.725	3030.537	3066.413	3076.769
<b>20</b>	2573.754	2627.790	2617.549	2677.946	2695.876
<b>25</b>	1937.441	2015.051	2000.430	2094.515	2105.949
<b>30</b>	1194.828	1270.056	1260.656	1358.909	1353.149
<b>35</b>	582.988	638.022	636.922	702.647	680.852
<b>40</b>	245.930	264.885	260.677	298.136	290.819
<b>45</b>	102.217	104.821	98.947	117.206	118.036
<b>50</b>	44.636	43.633	40.946	47.270	48.702
<b>55</b>	21.647	20.474	18.364	20.524	23.523
<b>60</b>	12.380	10.921	10.060	10.551	11.811
<b>65</b>	6.979	6.559	7.750	6.785	7.009
<b>70</b>	3.415	4.593	4.430	5.187	4.378
<b>75</b>	3.467	2.829	3.612	3.289	2.365
<b>80</b>	1.836	2.039	1.866	2.417	2.000
<b>85</b>	1.984	1.933	1.503	1.351	1.505
<b>90</b>	1.852	1.033	1.779	1.166	1.831

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Zone	Lumens	%Lamp	%Fixt
0-20	1169.77	N.A.	44.00
0-30	2080.46	N.A.	78.30
0-40	2521.01	N.A.	94.90
0-60	2643.73	N.A.	99.50
0-80	2654.42	N.A.	99.90
0-90	2656.27	N.A.	100.00
10-90	2330.99	N.A.	87.80
20-40	1351.24	N.A.	50.90
20-50	1452.55	N.A.	54.70
40-70	130.00	N.A.	4.90
60-80	10.69	N.A.	0.40
70-80	3.41	N.A.	0.10
80-90	1.85	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	2656.27	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	325.28
10-20	844.49
20-30	910.69
30-40	440.56
40-50	101.30
50-60	21.41
60-70	7.28
70-80	3.41
80-90	1.85
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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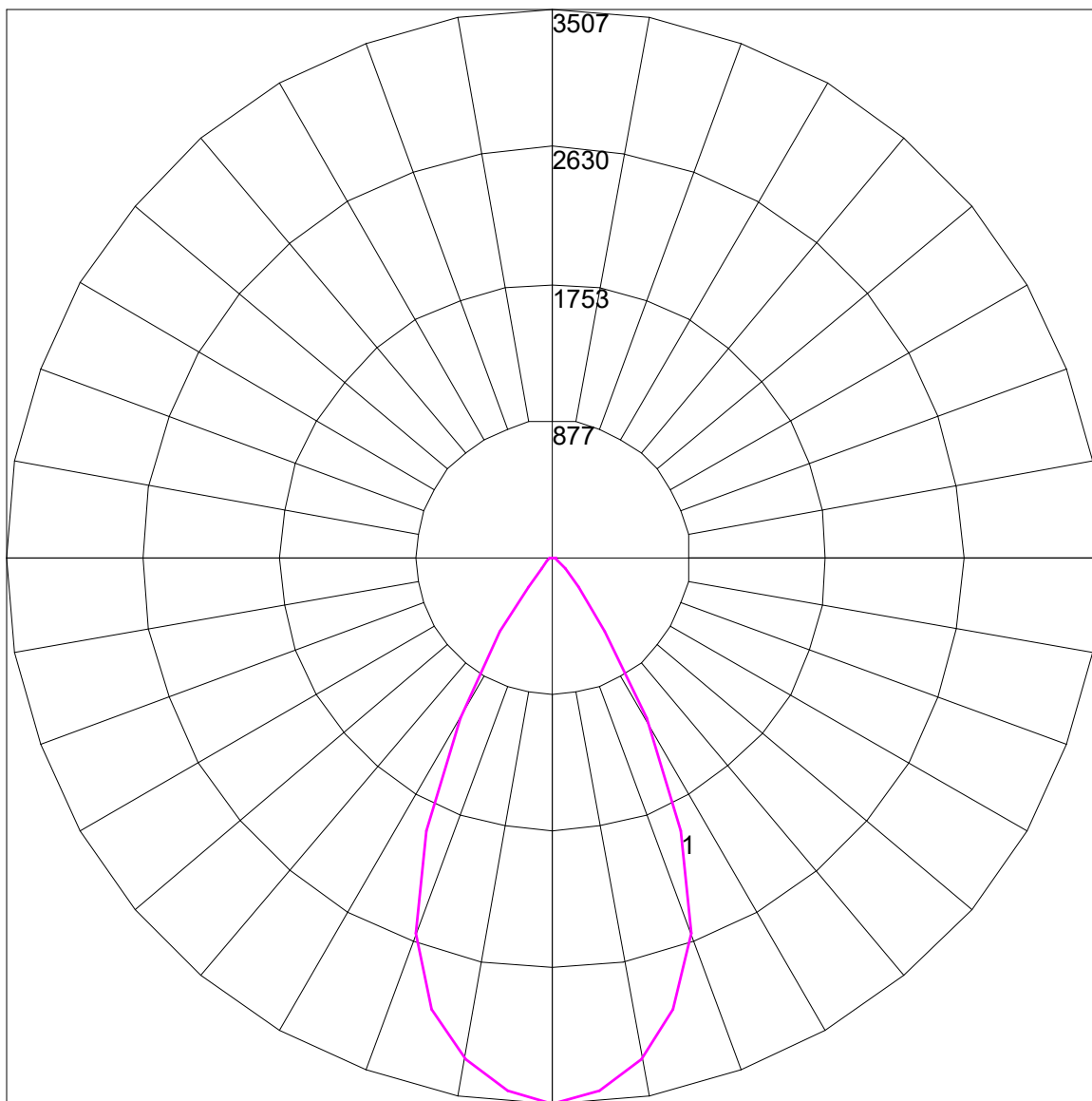
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## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	108	104	100	97	106	102	99	96	99	96	94	96	94	92	93	91	90	88
3	103	97	93	89	101	96	92	88	93	90	87	91	88	85	89	86	84	82
4	99	91	86	82	97	90	85	82	88	84	81	86	83	80	84	81	79	77
5	94	86	80	76	92	85	80	76	83	79	75	82	78	75	80	77	74	73
6	90	81	75	71	88	80	75	71	79	74	71	77	73	70	76	73	70	68
7	85	77	71	67	84	76	71	67	75	70	66	74	69	66	72	69	66	64
8	82	73	67	63	80	72	67	63	71	66	63	70	65	62	69	65	62	61
9	78	69	63	59	77	68	63	59	67	62	59	66	62	59	66	62	59	57
10	75	65	60	56	74	65	60	56	64	59	56	63	59	56	63	59	56	54

POLAR GRAPH



Maximum Candela = 3506.826 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)