

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP\_00547\_7 ~ SS4MX-XT13LE1-SDD4X-XXK-MDMWGL.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] SP-00547.7\_M-13L  
[TESTLAB] VLS-245-981  
[MANUFAC] Spectrum Lighting  
[ISSUE DATE] 3/21/2017  
[UPDATE] 4/20/2017  
[LUMCAT] SS4MRx-XT13L-E1-SDD4x-xxK-MD-MW-GL  
[LUMINAIRE] Nom. 4" Square Downlight, Deep profile, Medium Beam  
[OTHER] Matte White Trim, Clear glass lens  
[OTHER] 27.1 Degree Beam Angle  
[LAMP] N/A  
[LAMPCAT] N/A, Min. 83 CRI  
[OTHER] Total Luminaire Watts is approximate  
[OTHER] For New Construction Non-IC Housing: SS4MO-XT-series  
[OTHER] For New Construction IC Rated Housing: SS4MI-XT-Series  
[OTHER] For Remodel/Retrofit Housing: SS4MR-XT-Series  
[OTHER] For SDD4F or SDD4N Downlight Trim  
[OTHER] LEDXT lumen output is the same for all available CCT's  
[OTHER] This report prepared by Spectrum Lighting, scaled from 40L

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	876
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	58
Total Luminaire Watts	15
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.46
Spacing Criterion (90-270)	0.46
Spacing Criterion (Diagonal)	0.50
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.20 ft
Luminous Width (90-270)	0.20 ft
Luminous Height	0.00 ft

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP\_00547\_7 ~ SS4MX-XT13LE1-SDD4X-XXK-MDMWGL.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	9481	13808	9779
55	12642	15076	12926
65	3850	5030	4921
75	1142	1109	1894
85	1517	1586	1212

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP\_00547\_7 ~ SS4MX-XT13LE1-SDD4X-XXK-MDMWGL.IES****CANDELA TABULATION**

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
<b>0</b>	2506.753	2506.753	2506.753	2506.753	2506.753
<b>5</b>	2271.951	2312.010	2288.502	2321.238	2284.925
<b>10</b>	1677.256	1717.677	1680.212	1721.271	1684.750
<b>15</b>	1080.497	1103.547	1076.042	1106.366	1081.305
<b>20</b>	678.315	697.006	675.887	691.774	670.043
<b>25</b>	431.988	475.004	455.990	463.475	422.128
<b>30</b>	216.919	289.601	341.401	277.124	211.045
<b>35</b>	71.803	119.241	208.226	113.522	69.758
<b>40</b>	28.436	36.558	81.110	36.003	28.078
<b>45</b>	24.441	28.279	35.594	28.863	25.209
<b>50</b>	26.978	30.112	34.475	30.701	27.394
<b>55</b>	26.434	28.444	31.525	28.662	27.028
<b>60</b>	16.326	18.699	19.643	18.292	17.352
<b>65</b>	5.931	8.493	7.750	8.703	7.581
<b>70</b>	3.366	3.636	2.653	3.709	3.565
<b>75</b>	1.078	2.200	1.046	1.902	1.787
<b>80</b>	0.672	0.936	0.473	0.662	0.805
<b>85</b>	0.482	0.453	0.504	0.681	0.385
<b>90</b>	0.321	0.157	0.506	0.127	0.481

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Zone	Lumens	%Lamp	%Fixt
0-20	512.57	N.A.	58.50
0-30	725.27	N.A.	82.80
0-40	814.36	N.A.	93.00
0-60	864.19	N.A.	98.70
0-80	875.37	N.A.	99.90
0-90	875.93	N.A.	100.00
10-90	675.37	N.A.	77.10
20-40	301.79	N.A.	34.50
20-50	327.78	N.A.	37.40
40-70	59.08	N.A.	6.70
60-80	11.19	N.A.	1.30
70-80	1.94	N.A.	0.20
80-90	0.55	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	875.93	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	200.56
10-20	312.01
20-30	212.70
30-40	89.08
40-50	25.99
50-60	23.84
60-70	9.25
70-80	1.94
80-90	0.55
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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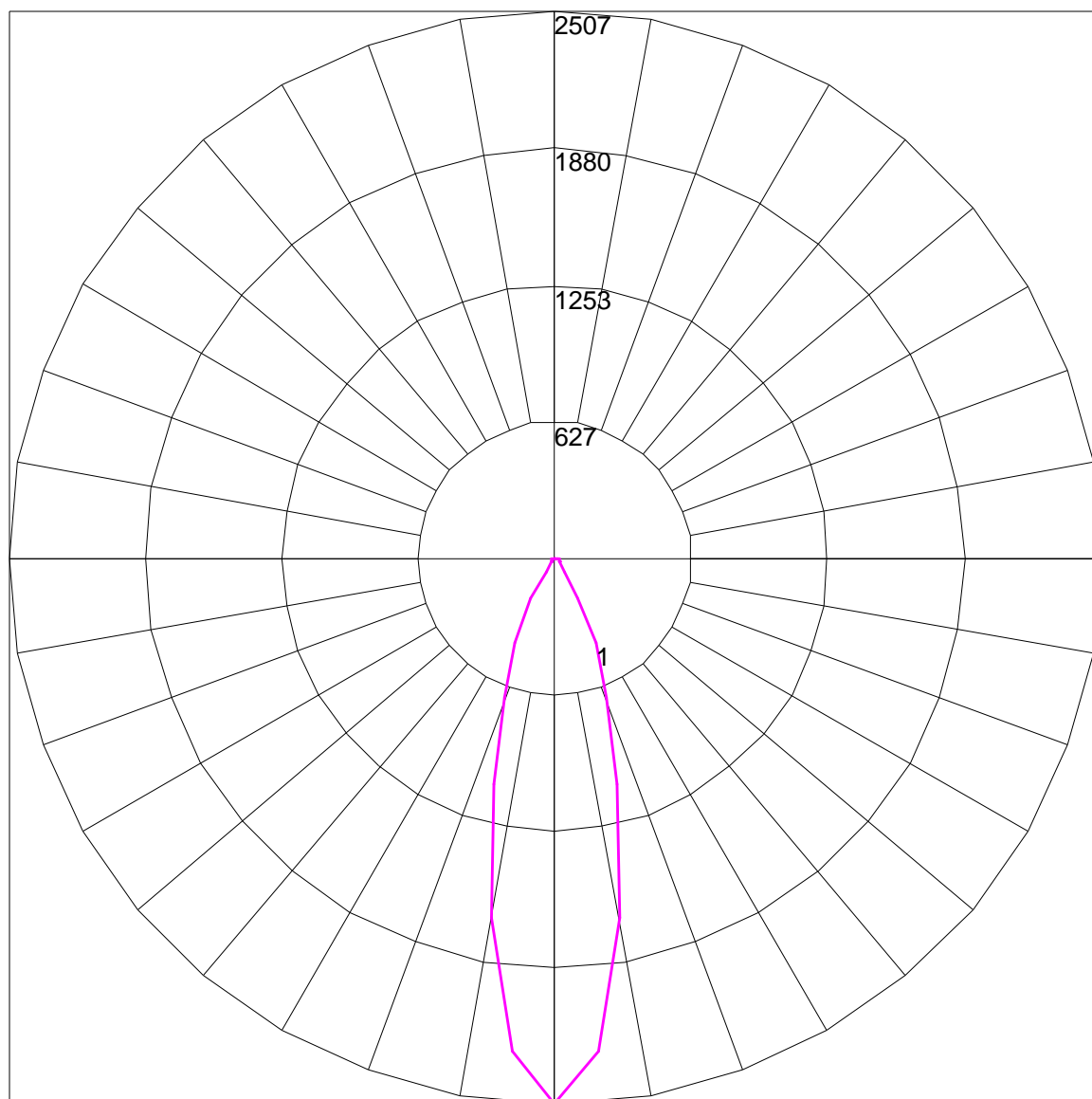
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	109	107	112	109	107	106	105	104	102	102	100	99	98	97	96	95
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	93	91	89
3	105	99	94	91	103	97	93	90	95	92	89	93	90	87	90	88	86	85
4	100	94	89	85	98	92	88	84	90	87	83	88	85	83	87	84	82	80
5	96	89	84	80	95	88	83	80	86	82	79	85	81	78	83	80	78	76
6	92	85	79	76	91	84	79	75	82	78	75	81	77	74	80	77	74	73
7	89	81	76	72	88	80	75	72	79	75	71	78	74	71	77	73	71	69
8	85	77	72	69	84	77	72	68	76	71	68	75	71	68	74	70	68	66
9	82	74	69	66	81	74	69	66	73	68	65	72	68	65	71	68	65	64
10	79	71	66	63	79	71	66	63	70	66	63	69	65	63	69	65	62	61

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POLAR GRAPH



Maximum Candela = 2506.753 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)