

**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : SP\_00547\_11 ~ SS4MX-XT13LE1-SDD4X-XXK-WDMWSO.IES**
**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] SP-00547.11\_M-13L  
 [TESTLAB] VLS-245-981  
 [MANUFAC] Spectrum Lighting  
 [ISSUE DATE] 3/21/2017  
 [UPDATE] 4/20/2017  
 [LUMCAT] SS4MRx-XT13L-E1-SDD4x-xxK-WD-MW-SO  
 [LUMINAIRE] Nom. 4" Square Downlight, Deep profile, Wide Beam  
 [OTHER] Matte White Trim, Solite lens  
 [OTHER] 37.2 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	878
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	59
Total Luminaire Watts	15
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.62
Spacing Criterion (90-270)	0.60
Spacing Criterion (Diagonal)	0.66
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\_11 ~ SS4MX-XT13LE1-SDD4X-XXK-WDMWSO.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	14731	21046	15027
55	8408	10970	8783
65	5281	4956	5219
75	1151	1252	1075
85	2757	2474	1438

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP\_00547\_11 ~ SS4MX-XT13LE1-SDD4X-XXK-WDMWSO.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>	1735.175	1735.175	1735.175	1735.175	1735.175
<b>5</b>	1657.037	1663.539	1653.007	1656.817	1644.444
<b>10</b>	1417.902	1434.006	1415.212	1420.809	1398.744
<b>15</b>	1098.391	1125.423	1105.986	1107.385	1078.767
<b>20</b>	778.929	813.423	800.344	796.591	763.315
<b>25</b>	497.086	537.948	543.894	522.786	483.874
<b>30</b>	276.274	316.445	342.215	301.803	261.120
<b>35</b>	134.689	164.856	193.277	151.149	122.581
<b>40</b>	65.776	82.414	99.337	75.038	62.123
<b>45</b>	37.973	46.601	54.253	44.391	38.738
<b>50</b>	25.027	29.654	35.075	28.893	26.610
<b>55</b>	17.582	20.052	22.939	20.194	18.365
<b>60</b>	12.056	13.116	13.867	13.671	12.685
<b>65</b>	8.136	8.120	7.636	8.620	8.041
<b>70</b>	4.273	4.543	3.606	5.195	4.459
<b>75</b>	1.086	1.517	1.181	1.544	1.014
<b>80</b>	0.689	0.706	0.746	0.575	0.682
<b>85</b>	0.876	0.605	0.786	0.600	0.457
<b>90</b>	0.325	0.279	0.519	0.323	0.266

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Zone	Lumens	%Lamp	%Fixt
0-20	457.20	N.A.	52.10
0-30	700.73	N.A.	79.80
0-40	809.45	N.A.	92.20
0-60	866.76	N.A.	98.70
0-80	877.17	N.A.	99.90
0-90	877.81	N.A.	100.00
10-90	727.25	N.A.	82.80
20-40	352.25	N.A.	40.10
20-50	390.90	N.A.	44.50
40-70	65.68	N.A.	7.50
60-80	10.41	N.A.	1.20
70-80	2.04	N.A.	0.20
80-90	0.64	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	877.81	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	150.57
10-20	306.64
20-30	243.53
30-40	108.72
40-50	38.65
50-60	18.66
60-70	8.37
70-80	2.04
80-90	0.64
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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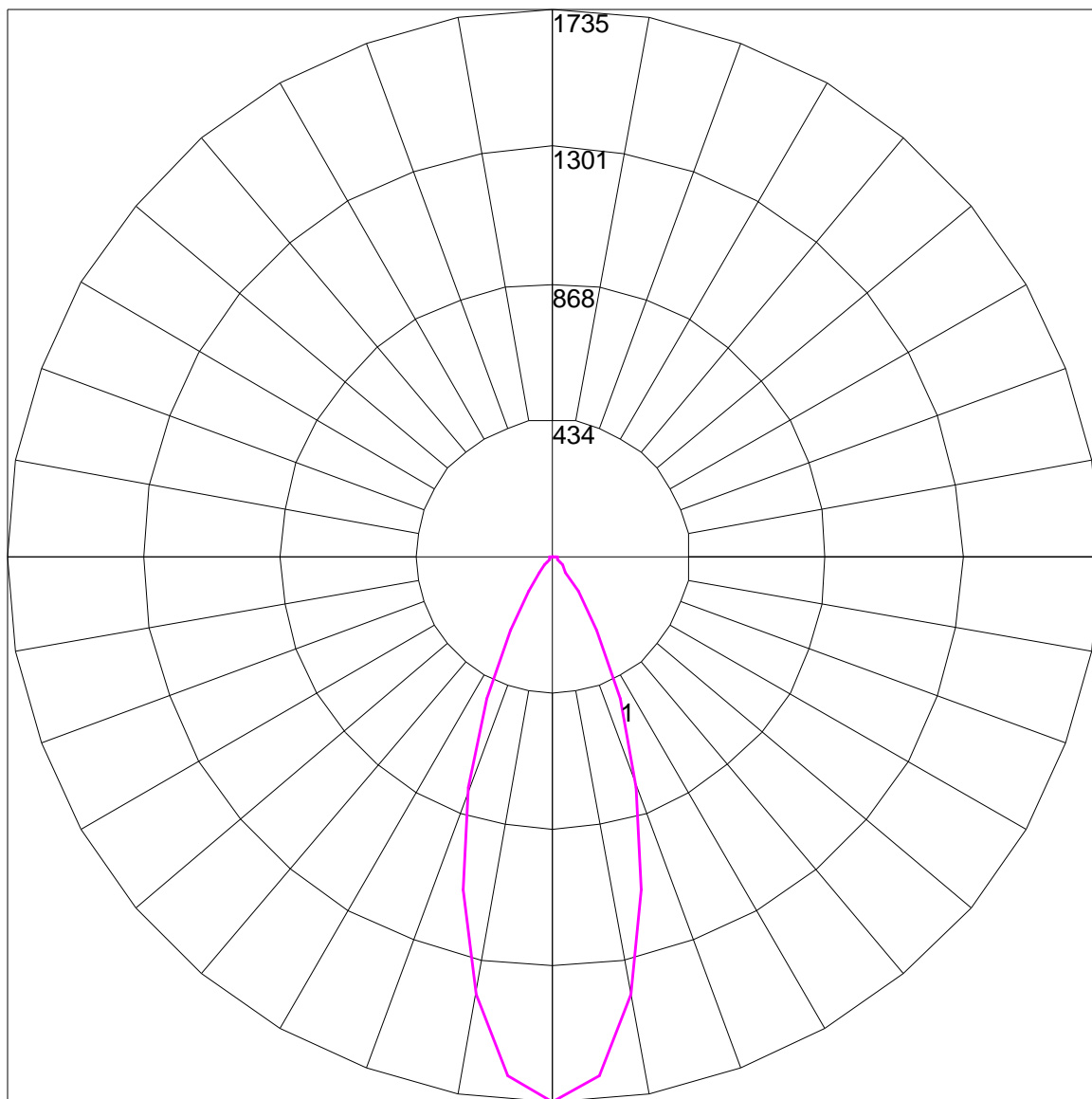
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94
2	109	104	100	97	106	102	99	96	99	96	94	96	94	92	93	92	90	88
3	104	98	93	89	102	96	92	89	94	90	87	91	88	86	89	87	85	83
4	99	92	87	83	97	91	86	83	89	85	82	87	83	81	85	82	80	78
5	95	87	82	78	93	86	81	77	84	80	77	83	79	76	81	78	75	74
6	91	82	77	73	89	82	77	73	80	76	72	79	75	72	78	74	71	70
7	87	78	73	69	85	78	72	69	76	72	68	75	71	68	74	70	68	66
8	83	74	69	65	82	74	69	65	73	68	65	72	68	65	71	67	64	63
9	80	71	66	62	79	71	65	62	70	65	62	69	65	62	68	64	61	60
10	77	68	63	59	76	67	62	59	67	62	59	66	62	59	65	61	59	57

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POLAR GRAPH



Maximum Candela = 1735.175 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)