

**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : SP\_00547\_13 ~ SS4MX-XT13LE1-SDD4X-XXK-XWMWGL.IES**
**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] SP-00547.13\_M-13L  
 [TESTLAB] VLS-245-981  
 [MANUFAC] Spectrum Lighting  
 [ISSUE DATE] 3/21/2017  
 [UPDATE] 4/21/2017  
 [LUMCAT] SS4MRx-XT13L-E1-SDD4x-xxK-XW-MW-GL  
 [LUMINAIRE] Nom. 4" Square Downlight, Deep profile, Xtra Wide Beam  
 [OTHER] Matte White Trim, Clear glass lens  
 [OTHER] 54.9 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	961
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	64
Total Luminaire Watts	15
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.88
Spacing Criterion (90-270)	0.88
Spacing Criterion (Diagonal)	0.90
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.20 ft
Luminous Width (90-270)	0.20 ft
Luminous Height	0.00 ft

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Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	16174	17982	15789
55	4958	7028	4707
65	3208	2283	3281
75	1672	1951	1671
85	1511	1958	1240

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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>	1158.670	1158.670	1158.670	1158.670	1158.670
<b>5</b>	1149.069	1149.421	1146.877	1143.374	1140.361
<b>10</b>	1098.562	1104.113	1096.819	1093.524	1084.153
<b>15</b>	1016.992	1032.460	1028.374	1019.163	1002.654
<b>20</b>	886.646	913.114	926.819	900.799	872.338
<b>25</b>	705.739	748.458	778.277	733.339	694.413
<b>30</b>	447.491	517.091	581.801	499.017	440.564
<b>35</b>	212.193	262.758	339.426	249.209	209.669
<b>40</b>	91.406	104.234	134.108	100.568	89.654
<b>45</b>	41.694	44.660	46.354	43.592	40.700
<b>50</b>	19.021	22.181	24.668	21.607	19.325
<b>55</b>	10.367	12.257	14.696	12.676	9.842
<b>60</b>	6.001	6.393	7.079	6.559	5.312
<b>65</b>	4.942	4.945	3.518	5.012	5.055
<b>70</b>	4.322	4.741	3.082	4.997	4.437
<b>75</b>	1.578	2.299	1.841	2.181	1.577
<b>80</b>	0.558	0.616	0.679	0.648	0.607
<b>85</b>	0.480	0.514	0.622	0.505	0.394
<b>90</b>	0.534	0.225	0.538	0.165	0.506

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Zone	Lumens	%Lamp	%Fixt
0-20	392.32	N.A.	40.80
0-30	723.12	N.A.	75.30
0-40	899.62	N.A.	93.70
0-60	952.77	N.A.	99.20
0-80	960.05	N.A.	99.90
0-90	960.60	N.A.	100.00
10-90	852.83	N.A.	88.80
20-40	507.30	N.A.	52.80
20-50	548.62	N.A.	57.10
40-70	58.09	N.A.	6.00
60-80	7.28	N.A.	0.80
70-80	2.34	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	960.60	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	107.78
10-20	284.55
20-30	330.79
30-40	176.50
40-50	41.32
50-60	11.83
60-70	4.94
70-80	2.34
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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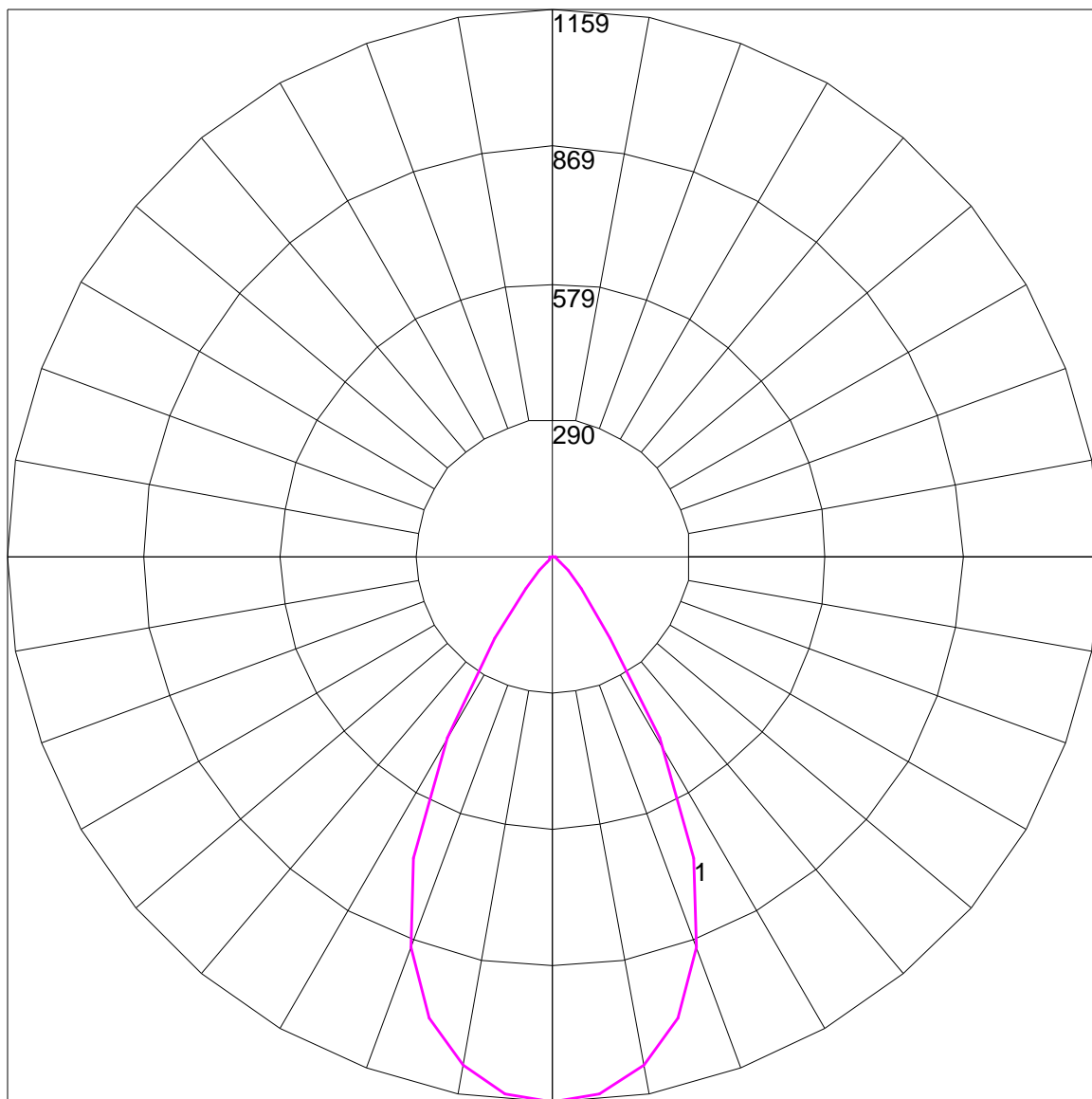
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	111	108	106	111	109	106	104	105	103	101	101	100	98	97	96	95	94
2	108	103	99	96	106	102	98	95	98	95	93	95	93	91	93	91	89	87
3	103	96	92	88	101	95	91	87	93	89	86	90	87	84	88	85	83	81
4	98	90	85	81	96	89	84	80	87	83	79	85	81	78	83	80	78	76
5	93	85	79	75	91	84	79	75	82	77	74	80	76	73	79	75	73	71
6	88	80	74	70	87	79	74	70	78	73	69	76	72	69	75	71	68	67
7	84	75	69	65	83	75	69	65	73	68	65	72	68	64	71	67	64	63
8	80	71	65	61	79	70	65	61	69	64	61	68	64	61	67	63	60	59
9	77	67	61	58	76	67	61	57	66	61	57	65	60	57	64	60	57	56
10	73	64	58	54	72	63	58	54	62	57	54	62	57	54	61	57	54	52

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POLAR GRAPH



Maximum Candela = 1158.67 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)