

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP\_00547\_4 ~ SS4MX-XT13LE1-SDD4X-XXK-NDMWGL.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00547.4\_M-13L

[TESTLAB] VLS-245-981

[MANUFAC] Spectrum Lighting

[ISSUE DATE] 3/21/2017

[UPDATE] 4/20/2017

[LUMCAT] SS4MRx-XT13L-E1-SDD4x-xxK-ND-MW-GL

[LUMINAIRE] Nom. 4" Square Downlight, Deep profile, Narrow Beam

[OTHER] Matte White Trim, Clear glass lens

[OTHER] 18.9 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	895
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	60
Total Luminaire Watts	15
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.34
Spacing Criterion (90-270)	0.34
Spacing Criterion (Diagonal)	0.36
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\_4 ~ SS4MX-XT13LE1-SDD4X-XXK-NDMWGL.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	5704	9626	6388
55	5803	11149	6573
65	4009	4791	3671
75	871	1173	1059
85	2033	1869	1539

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP\_00547\_4 ~ SS4MX-XT13LE1-SDD4X-XXK-NDMWGL.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>	4436.031	4436.031	4436.031	4436.031	4436.031
<b>5</b>	3673.987	3743.543	3581.467	3779.734	3724.196
<b>10</b>	2005.628	2047.377	1966.615	2042.975	2007.041
<b>15</b>	932.631	963.689	936.326	957.491	935.456
<b>20</b>	537.538	537.615	516.274	540.726	534.639
<b>25</b>	362.723	390.873	384.497	381.204	352.564
<b>30</b>	184.676	252.819	328.000	230.993	176.800
<b>35</b>	52.743	104.535	193.936	89.910	54.712
<b>40</b>	22.796	29.299	62.678	26.918	23.463
<b>45</b>	14.704	20.727	24.815	18.778	16.468
<b>50</b>	10.315	16.877	22.458	15.529	11.106
<b>55</b>	12.135	16.321	23.312	17.470	13.745
<b>60</b>	14.666	15.898	20.947	16.650	14.074
<b>65</b>	6.177	7.722	7.381	7.871	5.656
<b>70</b>	1.977	2.963	1.664	2.727	1.652
<b>75</b>	0.822	1.257	1.107	1.217	0.999
<b>80</b>	0.418	0.715	0.530	0.608	0.312
<b>85</b>	0.646	0.560	0.594	0.545	0.489
<b>90</b>	0.524	0.150	0.723	0.184	0.490

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Zone	Lumens	%Lamp	%Fixt
0-20	599.61	N.A.	67.00
0-30	774.49	N.A.	86.60
0-40	851.67	N.A.	95.20
0-60	884.63	N.A.	98.90
0-80	894.26	N.A.	99.90
0-90	894.83	N.A.	100.00
10-90	593.05	N.A.	66.30
20-40	252.06	N.A.	28.20
20-50	269.68	N.A.	30.10
40-70	41.25	N.A.	4.60
60-80	9.63	N.A.	1.10
70-80	1.34	N.A.	0.10
80-90	0.57	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	894.83	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	301.78
10-20	297.82
20-30	174.88
30-40	77.18
40-50	17.62
50-60	15.34
60-70	8.29
70-80	1.34
80-90	0.57
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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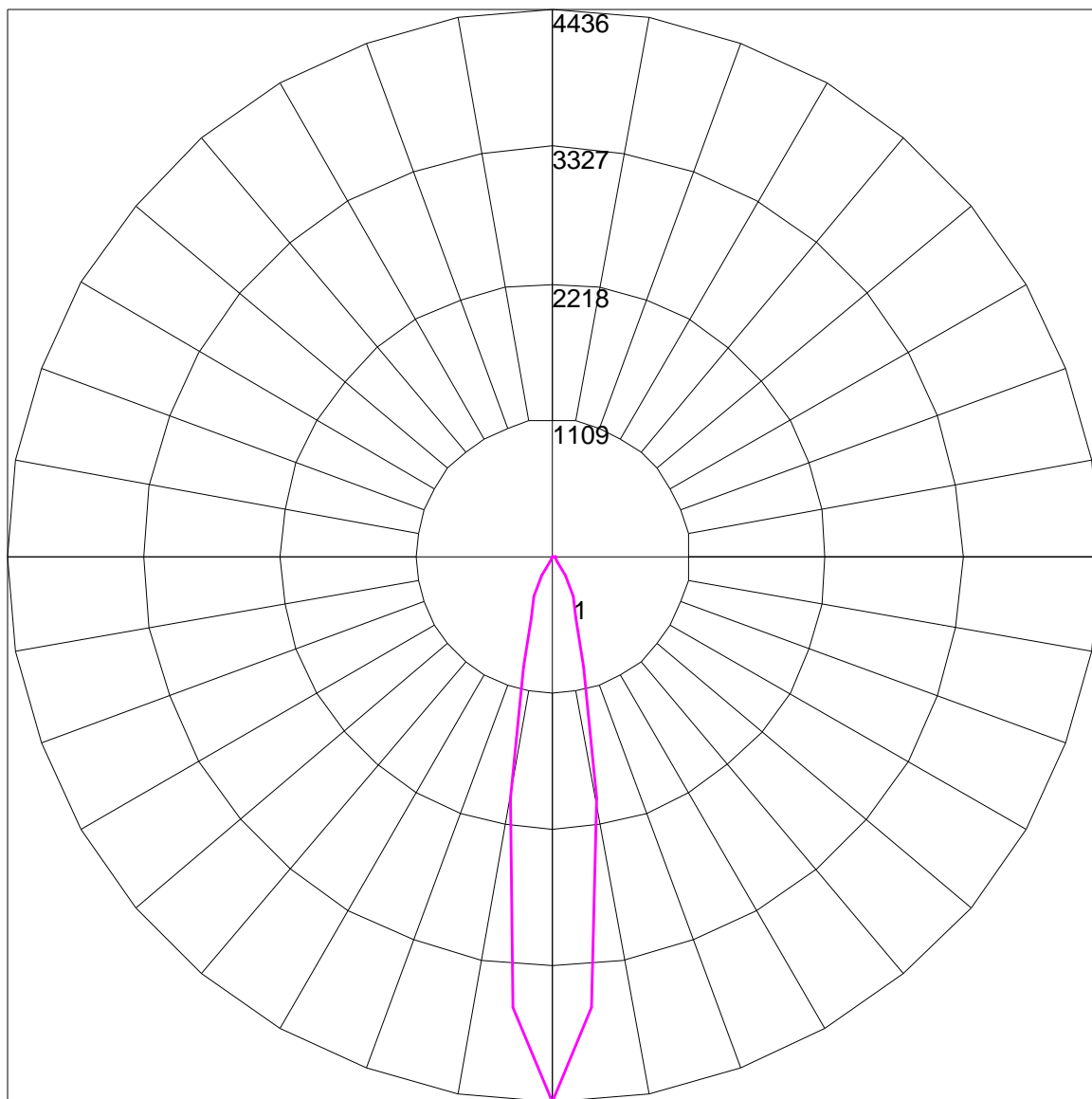
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	115	112	110	108	112	110	108	106	106	105	103	102	101	100	99	98	97	96
2	110	106	103	100	108	104	101	99	101	99	97	98	96	95	96	94	93	91
3	106	101	97	94	104	100	96	93	97	94	91	95	92	90	93	90	89	87
4	102	96	92	88	101	95	91	88	93	90	87	91	88	86	89	87	85	84
5	99	92	87	84	97	91	87	84	90	86	83	88	85	82	87	84	82	80
6	95	88	84	80	94	88	83	80	86	82	80	85	82	79	84	81	79	77
7	92	85	80	77	91	84	80	77	83	79	77	82	79	76	81	78	76	75
8	89	82	77	74	88	82	77	74	81	77	74	80	76	74	79	76	73	72
9	87	79	75	72	86	79	75	72	78	74	71	77	74	71	76	73	71	70
10	84	77	72	69	83	76	72	69	76	72	69	75	71	69	74	71	69	68

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POLAR GRAPH



Maximum Candela = 4436.031 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)