

**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : SP\_00547\_5 ~ SS4MX-XT13LE1-SDD4X-XXK-NDMWSO.IES**
**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] SP-00547.5\_M-13L  
 [TESTLAB] VLS-245-981  
 [MANUFAC] Spectrum Lighting  
 [ISSUEDATE] 3/21/2017  
 [UPDATE] 4/20/2017  
 [LUMCAT] SS4MRx-XT13L-E1-SDD4x-xxK-ND-MW-SO  
 [LUMINAIRE] Nom. 4" Square Downlight, Deep profile, Narrow Beam  
 [OTHER] Matte White Trim, Solite lens  
 [OTHER] 23.7 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	853
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	57
Total Luminaire Watts	15
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.40
Spacing Criterion (90-270)	0.40
Spacing Criterion (Diagonal)	0.42
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\_5 ~ SS4MX-XT13LE1-SDD4X-XXK-NDMWSO.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	9638	17282	9583
55	6265	10419	6027
65	4233	4259	3772
75	920	1277	858
85	1379	1561	1989

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP\_00547\_5 ~ SS4MX-XT13LE1-SDD4X-XXK-NDMWSO.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>	3173.391	3173.391	3173.391	3173.391	3173.391
<b>5</b>	2807.912	2837.353	2772.207	2811.171	2792.267
<b>10</b>	1892.326	1921.592	1835.673	1845.085	1804.010
<b>15</b>	1060.788	1080.165	1033.018	1014.449	1001.851
<b>20</b>	583.972	601.119	596.115	579.375	568.337
<b>25</b>	336.307	377.037	391.773	363.350	334.399
<b>30</b>	185.579	230.259	261.923	215.706	179.404
<b>35</b>	91.859	126.473	153.303	110.982	82.059
<b>40</b>	43.609	64.269	77.722	54.105	38.534
<b>45</b>	24.844	36.601	44.551	31.950	24.703
<b>50</b>	17.637	23.752	30.680	22.044	16.919
<b>55</b>	13.101	17.190	21.787	16.628	12.602
<b>60</b>	10.000	12.260	12.666	11.467	9.582
<b>65</b>	6.521	6.131	6.562	7.045	5.811
<b>70</b>	3.016	3.100	2.447	2.988	3.293
<b>75</b>	0.868	1.143	1.205	0.920	0.810
<b>80</b>	0.629	0.501	0.314	0.499	1.061
<b>85</b>	0.438	0.561	0.496	0.756	0.632
<b>90</b>	0.219	0.126	0.385	0.285	0.546

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP\_00547\_5 ~ SS4MX-XT13LE1-SDD4X-XXK-NDMWSO.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	544.79	N.A.	63.90
0-30	719.55	N.A.	84.40
0-40	799.74	N.A.	93.80
0-60	844.24	N.A.	99.00
0-80	852.45	N.A.	99.90
0-90	853.00	N.A.	100.00
10-90	614.55	N.A.	72.00
20-40	254.95	N.A.	29.90
20-50	284.01	N.A.	33.30
40-70	51.26	N.A.	6.00
60-80	8.21	N.A.	1.00
70-80	1.45	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	853.00	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	238.46
10-20	306.33
20-30	174.77
30-40	80.18
40-50	29.06
50-60	15.44
60-70	6.76
70-80	1.45
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

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : SP\_00547\_5 ~ SS4MX-XT13LE1-SDD4X-XXK-NDMWSO.IES

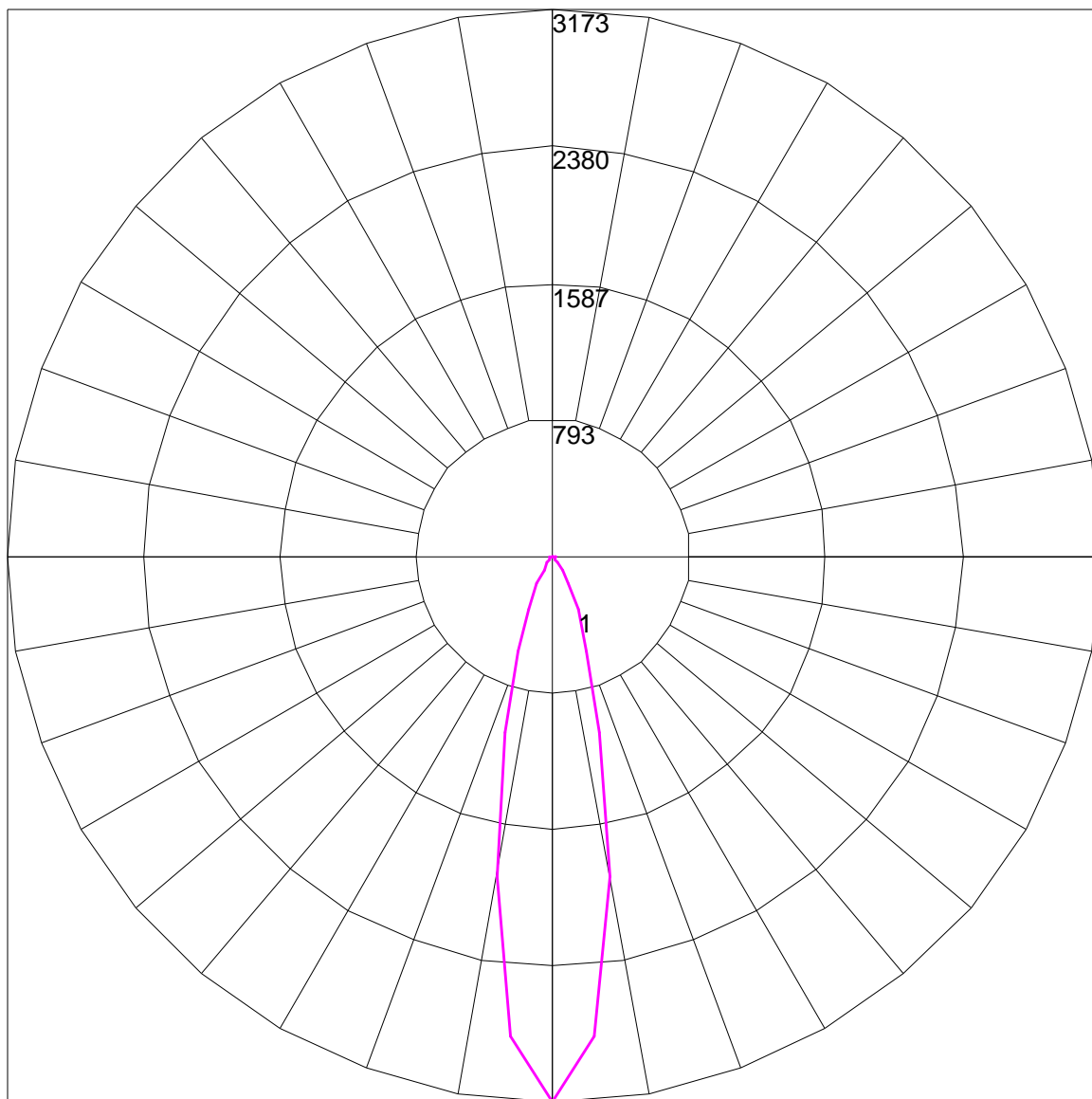
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95
2	110	106	102	99	108	104	101	98	101	98	96	98	96	94	95	93	92	90
3	105	100	96	92	104	99	95	92	96	93	90	94	91	89	92	89	87	86
4	101	95	90	87	100	94	90	86	92	88	85	90	87	84	88	86	83	82
5	97	91	86	82	96	90	85	82	88	84	81	86	83	80	85	82	80	78
6	94	87	82	78	93	86	81	78	84	80	77	83	80	77	82	79	76	75
7	91	83	78	75	89	82	78	74	81	77	74	80	76	74	79	76	73	72
8	87	80	75	72	86	79	75	71	78	74	71	77	74	71	76	73	71	69
9	85	77	72	69	84	76	72	69	75	71	68	75	71	68	74	71	68	67
10	82	74	69	66	81	74	69	66	73	69	66	72	68	66	72	68	66	65

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : SP\_00547\_5 ~ SS4MX-XT13LE1-SDD4X-XXK-NDMWSO.IES

POLAR GRAPH



Maximum Candela = 3173.391 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)