

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP\_00547\_4 ~ SS4MX-XT40LE1-SDD4X-XXK-NDMWGL.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] SP-00547.4  
[TESTLAB] VLS-245-981  
[MANUFAC] Spectrum Lighting  
[ISSUE DATE] 3/21/2017  
[UPDATE] 5/5/2017  
[LUMCAT] SS4MRx-XT40L-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 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

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2650
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	66
Total Luminaire Watts	39.9
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-XT40LE1-SDD4X-XXK-NDMWGL.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	16891	28506	18918
55	17184	33014	19465
65	11871	14186	10870
75	2581	3475	3134
85	6021	5533	4554

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP\_00547\_4 ~ SS4MX-XT40LE1-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>	13136.010	13136.010	13136.010	13136.010	13136.010
<b>5</b>	10879.440	11085.410	10605.470	11192.580	11028.120
<b>10</b>	5939.083	6062.709	5823.556	6049.673	5943.266
<b>15</b>	2761.713	2853.684	2772.655	2835.329	2770.079
<b>20</b>	1591.762	1591.990	1528.794	1601.202	1583.177
<b>25</b>	1074.097	1157.456	1138.575	1128.823	1044.016
<b>30</b>	546.863	748.650	971.276	684.017	523.542
<b>35</b>	156.184	309.550	574.286	266.242	162.014
<b>40</b>	67.504	86.761	185.603	79.711	69.479
<b>45</b>	43.542	61.376	73.482	55.606	48.766
<b>50</b>	30.544	49.976	66.504	45.986	32.887
<b>55</b>	35.933	48.330	69.033	51.732	40.701
<b>60</b>	43.428	47.078	62.027	49.304	41.676
<b>65</b>	18.290	22.867	21.856	23.309	16.748
<b>70</b>	5.853	8.773	4.927	8.076	4.893
<b>75</b>	2.435	3.722	3.279	3.603	2.957
<b>80</b>	1.237	2.117	1.568	1.800	0.924
<b>85</b>	1.913	1.657	1.758	1.615	1.447
<b>90</b>	1.552	0.445	2.140	0.544	1.450

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Zone	Lumens	%Lamp	%Fixt
0-20	1775.56	N.A.	67.00
0-30	2293.42	N.A.	86.60
0-40	2521.96	N.A.	95.20
0-60	2619.58	N.A.	98.90
0-80	2648.09	N.A.	99.90
0-90	2649.77	N.A.	100.00
10-90	1756.13	N.A.	66.30
20-40	746.40	N.A.	28.20
20-50	798.59	N.A.	30.10
40-70	122.16	N.A.	4.60
60-80	28.52	N.A.	1.10
70-80	3.97	N.A.	0.10
80-90	1.68	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	2649.77	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	893.64
10-20	881.92
20-30	517.85
30-40	228.55
40-50	52.18
50-60	45.43
60-70	24.55
70-80	3.97
80-90	1.68
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

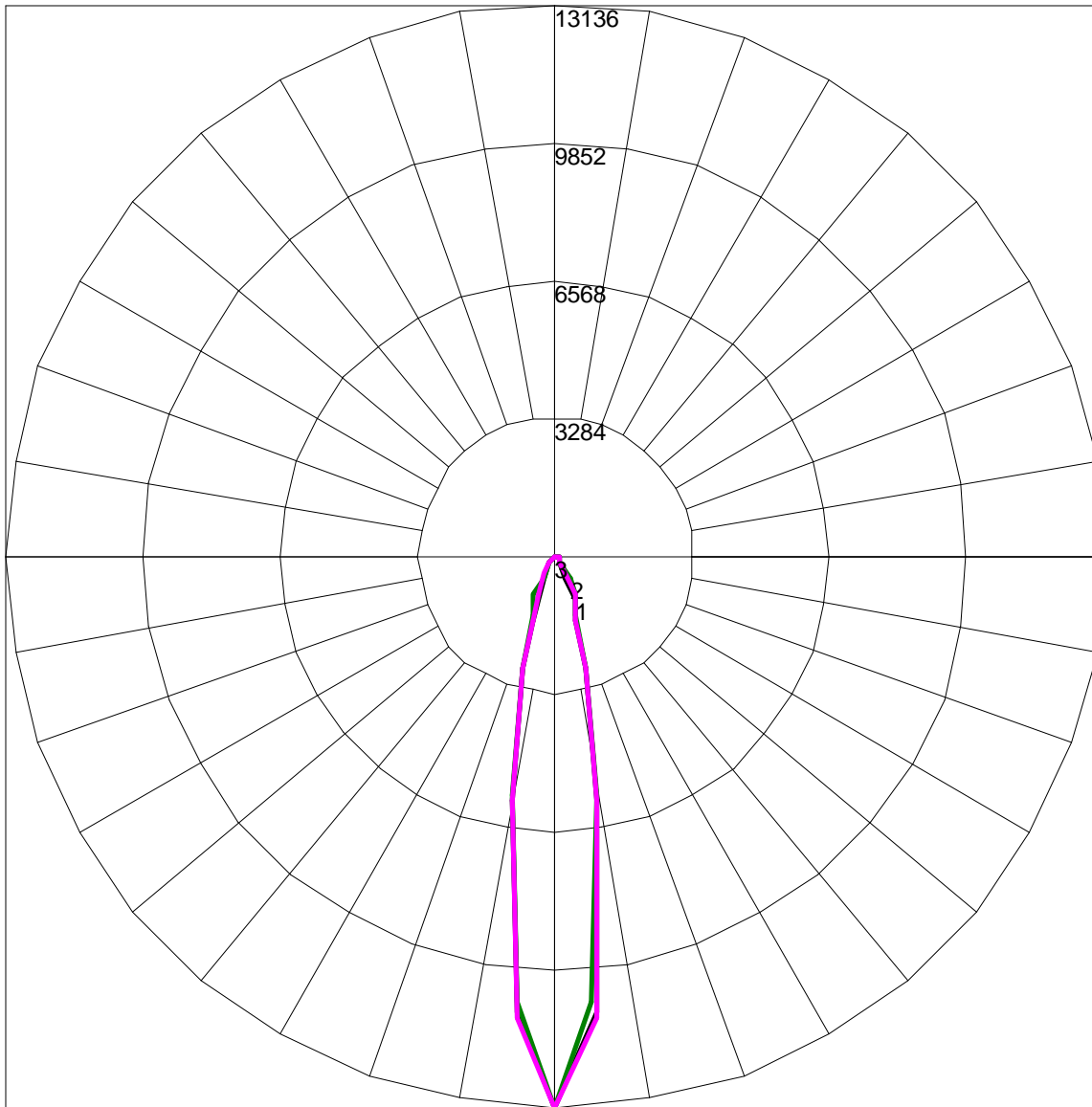
Effective Floor Cavity Reflectance 0.20

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	107	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 = 13136.01 Located At Horizontal Angle = 0, Vertical Angle = 0

# 1 - Vertical Plane Through Horizontal Angles (0 - 180)

# 2 - Vertical Plane Through Horizontal Angles (45 - 225)

# 3 - Vertical Plane Through Horizontal Angles (90 - 270)