

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP\_00547\_9 ~ SS4MX-XT40LE1-SDD4X-XXK-WDMWNL.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] SP-00547.9  
[TESTLAB] VLS-245-981  
[MANUFAC] Spectrum Lighting  
[ISSUE DATE] 2/13/2017  
[UPDATE] 5/5/2017  
[LUMCAT] SS4MRx-XT40L-E1-SDD4X-xxK-WD-MW-NL  
[LUMINAIRE] Nom. 4" Square Downlight, Deep profile, Wide Beam  
[OTHER] Matte White Trim, No lens  
[OTHER] 35.4 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	2943
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	74
Total Luminaire Watts	39.9
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.58
Spacing Criterion (90-270)	0.56
Spacing Criterion (Diagonal)	0.64
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	29798	34619	30350
55	23812	27375	23084
65	8702	8038	7691
75	2883	3608	2539
85	4438	5967	5010

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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>	6374.522	6374.522	6374.522	6374.522	6374.522
<b>5</b>	6020.948	6072.415	6035.330	6050.834	5982.688
<b>10</b>	5031.854	5188.197	5155.750	5121.002	4955.550
<b>15</b>	3786.453	3998.871	3967.172	3900.101	3705.193
<b>20</b>	2682.000	2836.467	2784.732	2772.895	2620.270
<b>25</b>	1740.158	1905.949	1863.746	1845.575	1676.732
<b>30</b>	872.573	1117.471	1244.984	1023.686	799.563
<b>35</b>	279.051	462.761	711.462	377.430	245.208
<b>40</b>	90.281	141.289	269.122	105.578	89.900
<b>45</b>	76.814	74.462	89.242	78.657	78.236
<b>50</b>	66.643	65.800	64.571	68.222	66.281
<b>55</b>	49.792	53.589	57.242	50.742	48.270
<b>60</b>	26.902	33.994	37.688	31.553	24.693
<b>65</b>	13.407	14.709	12.384	14.331	11.849
<b>70</b>	13.584	10.459	4.965	11.882	12.686
<b>75</b>	2.720	5.400	3.404	4.463	2.396
<b>80</b>	1.517	1.160	1.506	1.966	1.640
<b>85</b>	1.410	2.123	1.896	1.351	1.592
<b>90</b>	1.314	0.485	1.262	0.769	1.575

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Zone	Lumens	%Lamp	%Fixt
0-20	1631.61	N.A.	55.40
0-30	2478.53	N.A.	84.20
0-40	2801.68	N.A.	95.20
0-60	2919.57	N.A.	99.20
0-80	2941.83	N.A.	99.90
0-90	2943.46	N.A.	100.00
10-90	2396.01	N.A.	81.40
20-40	1170.07	N.A.	39.80
20-50	1242.48	N.A.	42.20
40-70	135.00	N.A.	4.60
60-80	22.26	N.A.	0.80
70-80	5.15	N.A.	0.20
80-90	1.63	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	2943.46	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	547.45
10-20	1084.15
20-30	846.93
30-40	323.14
40-50	72.41
50-60	45.48
60-70	17.11
70-80	5.15
80-90	1.63
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

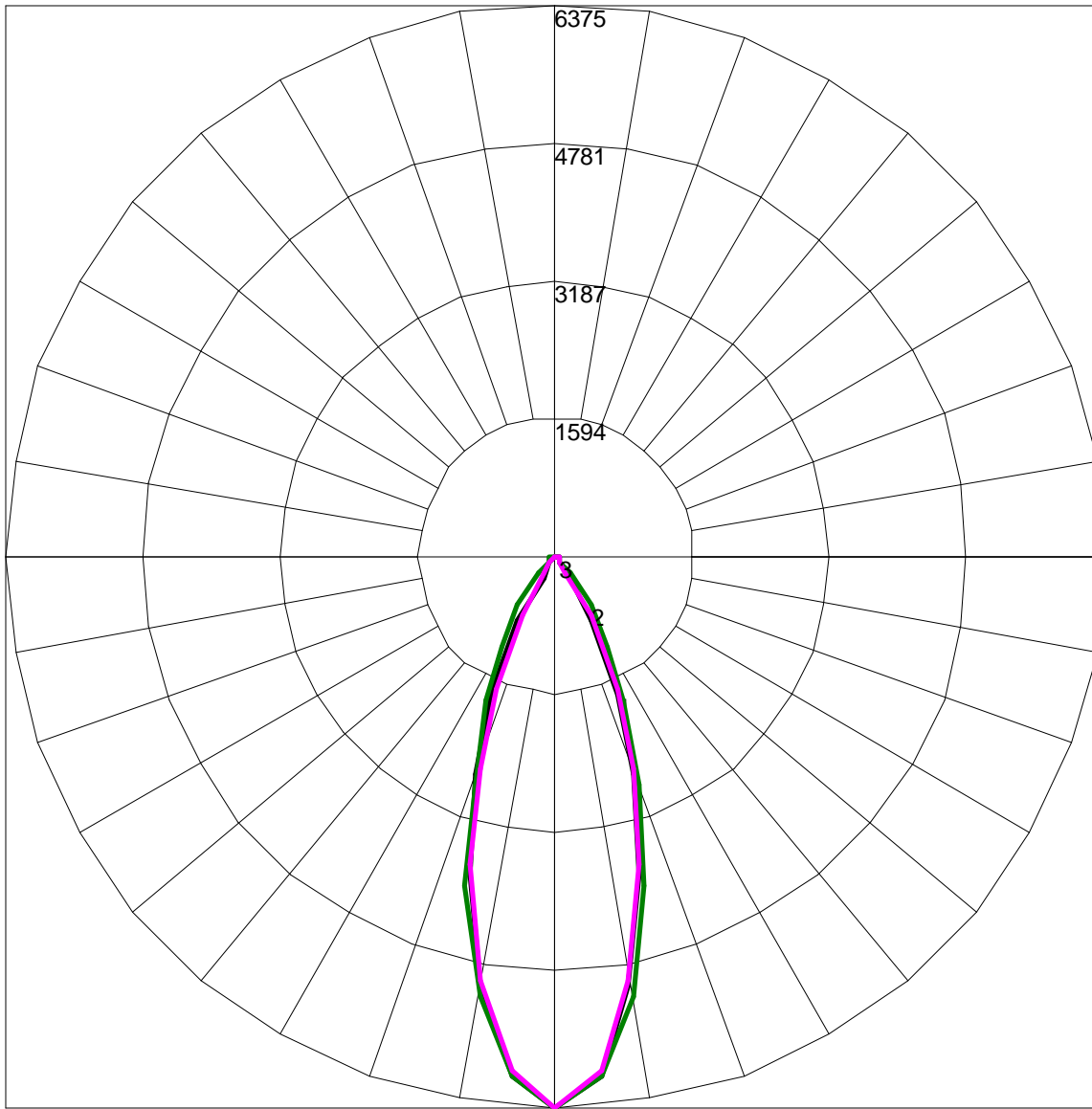
Effective Floor Cavity Reflectance 0.20

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	112	109	107	112	109	107	106	105	104	102	102	100	99	98	97	96	95
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	93	91	89
3	105	99	94	91	103	97	93	90	95	91	89	93	90	87	90	88	86	85
4	100	93	89	85	98	92	88	84	90	86	83	88	85	82	87	84	81	80
5	96	89	83	80	94	88	83	79	86	82	79	84	81	78	83	80	77	76
6	92	84	79	75	91	83	79	75	82	78	74	81	77	74	79	76	73	72
7	88	80	75	71	87	80	75	71	78	74	71	77	73	70	76	73	70	69
8	85	77	71	68	84	76	71	68	75	70	67	74	70	67	73	69	67	66
9	82	73	68	65	81	73	68	64	72	67	64	71	67	64	70	67	64	63
10	79	70	65	62	78	70	65	62	69	64	61	68	64	61	68	64	61	60

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## POLAR GRAPH



Maximum Candela = 6374.522 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)