

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP\_00547\_1 ~ SS4MX-XT20LE1-SDD4X-XXK-XNMWGL.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] SP-00547.1  
[TESTLAB] VLS-245-981  
[MANUFAC] Spectrum Lighting  
[ISSUEDATE] 3/21/2017  
[UPDATE] 4/20/2017  
[LUMCAT] SS4MRx-XT20L-E1-SDD4x-xxK-XN-MW-NL  
[LUMINAIRE] Nom. 4" Square Downlight, Deep profile, Xtra Narrow Beam  
[OTHER] Matte White Trim, No lens  
[OTHER] 12.1 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	1589
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	42
Total Luminaire Watts	37.5
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.22
Spacing Criterion (90-270)	0.24
Spacing Criterion (Diagonal)	0.22
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\_1 ~ SS4MX-XT20LE1-SDD4X-XXK-XNMWGL.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	7451	11040	7378
55	7261	14525	5358
65	4314	3379	5862
75	2321	1453	1420
85	2310	5826	2754

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP\_00547\_1 ~ SS4MX-XT20LE1-SDD4X-XXK-XNMWGL.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>	18177.539	18177.539	18177.539	18177.539	18177.539
<b>5</b>	10876.020	11683.480	10793.360	11926.560	11646.750
<b>10</b>	2239.063	3145.864	2283.851	3228.505	2522.343
<b>15</b>	761.034	851.509	819.314	862.379	811.311
<b>20</b>	597.540	600.865	614.178	607.332	606.341
<b>25</b>	512.009	552.705	562.130	556.875	521.808
<b>30</b>	230.450	390.126	522.268	362.661	207.941
<b>35</b>	47.860	107.555	365.276	85.424	45.191
<b>40</b>	29.048	29.321	58.313	28.359	32.152
<b>45</b>	19.208	22.087	28.458	25.969	19.018
<b>50</b>	10.944	18.923	24.446	18.415	11.250
<b>55</b>	15.183	21.135	30.372	19.981	11.203
<b>60</b>	16.275	17.752	21.732	16.482	14.652
<b>65</b>	6.647	8.100	5.206	9.061	9.032
<b>70</b>	3.063	4.646	3.843	2.622	2.104
<b>75</b>	2.190	2.795	1.371	3.094	1.340
<b>80</b>	2.362	2.468	2.206	1.976	1.190
<b>85</b>	0.734	1.940	1.851	1.595	0.875
<b>90</b>	1.843	1.018	0.602	0.515	0.635

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Zone	Lumens	%Lamp	%Fixt
0-20	1192.17	N.A.	75.00
0-30	1429.64	N.A.	90.00
0-40	1538.26	N.A.	96.80
0-60	1575.57	N.A.	99.20
0-80	1587.18	N.A.	99.90
0-90	1588.82	N.A.	100.00
10-90	727.92	N.A.	45.80
20-40	346.08	N.A.	21.80
20-50	365.81	N.A.	23.00
40-70	46.27	N.A.	2.90
60-80	11.61	N.A.	0.70
70-80	2.65	N.A.	0.20
80-90	1.65	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	1588.82	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	860.90
10-20	331.27
20-30	237.47
30-40	108.61
40-50	19.72
50-60	17.59
60-70	8.96
70-80	2.65
80-90	1.65
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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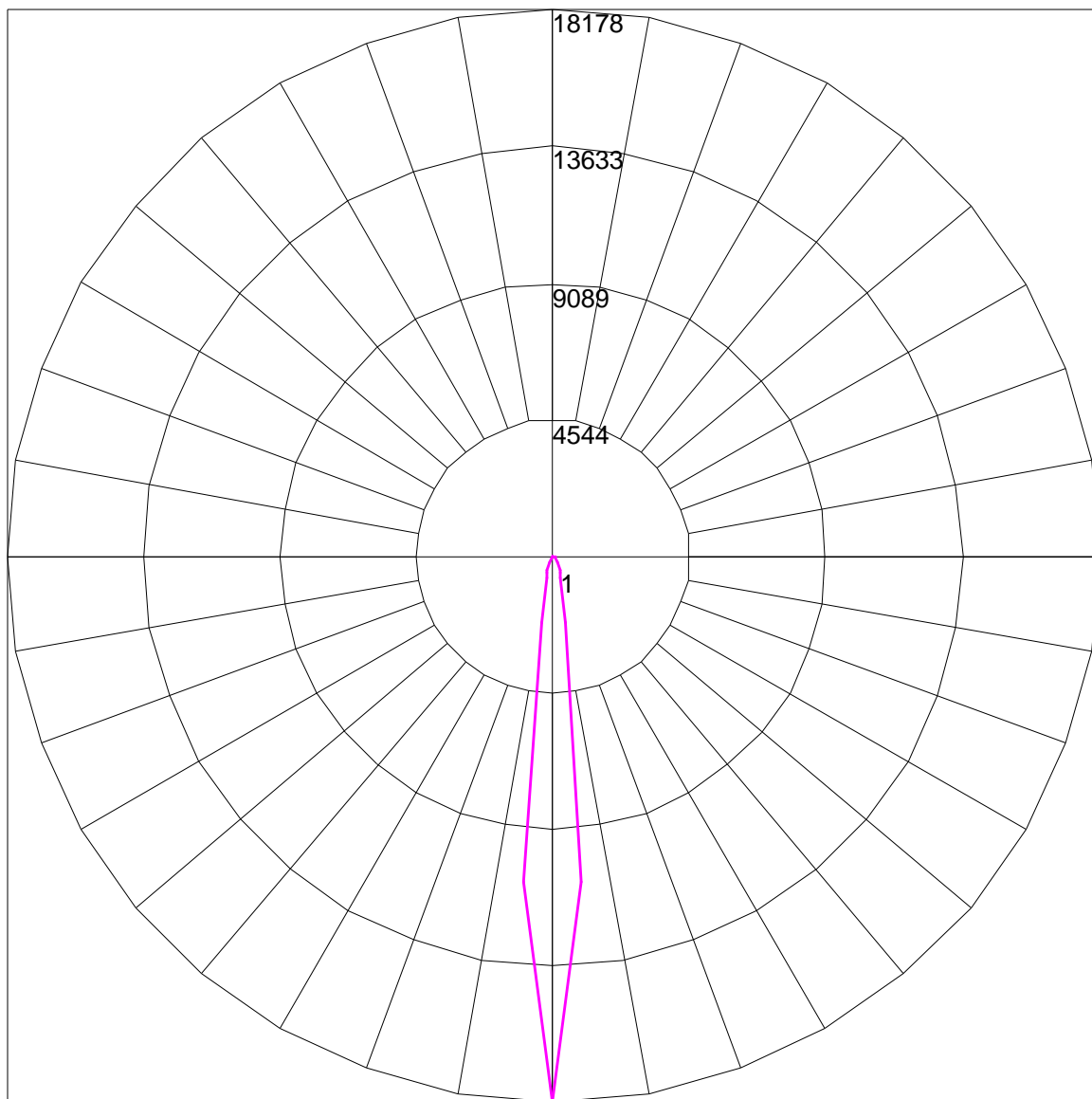
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	113	111	110	113	111	109	108	107	106	104	103	102	101	100	99	98	97
2	111	108	105	103	109	106	104	101	103	101	99	100	99	97	98	96	95	94
3	108	104	100	97	106	102	99	97	100	97	95	98	95	94	95	94	92	91
4	105	100	96	93	103	99	95	93	97	94	92	95	93	91	93	91	90	88
5	102	97	93	90	101	96	92	89	94	91	89	93	90	88	91	89	87	86
6	100	94	90	87	98	93	89	87	92	88	86	90	88	85	89	87	85	84
7	97	91	87	84	96	90	87	84	89	86	84	88	86	83	87	85	83	82
8	95	89	85	82	94	88	85	82	87	84	82	86	84	81	86	83	81	80
9	93	87	83	80	92	86	83	80	85	82	80	85	82	80	84	81	79	79
10	91	85	81	79	90	84	81	78	84	81	78	83	80	78	83	80	78	77

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POLAR GRAPH



Maximum Candela = 18177.539 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)