

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP\_00547\_1 ~ SS4MX-XT10LE1-SDD4X-XXK-XNMWGL.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] SP-00545.1\_M-10L  
[TESTLAB] VLS-245-981  
[MANUFAC] Spectrum Lighting  
[ISSUE DATE] 3/21/2017  
[UPDATE] 4/20/2017  
[LUMCAT] SS4MRx-XT10L-E1-SDD4x-xxK-XN-MW-GL  
[LUMINAIRE] Nom. 4" Square Downlight, Deep profile, Xtra Narrow Beam  
[OTHER] Matte White Trim, Clear glass 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 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 20L

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	767
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	52
Total Luminaire Watts	14.8
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-XT10LE1-SDD4X-XXK-XNMWGL.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3595	5327	3560
55	3504	7008	2585
65	2082	1630	2829
75	1120	702	686
85	1114	2811	1328

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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>	8770.662	8770.662	8770.662	8770.662	8770.662
<b>5</b>	5247.680	5637.279	5207.796	5754.565	5619.557
<b>10</b>	1080.348	1517.879	1101.958	1557.754	1217.030
<b>15</b>	367.199	410.853	395.319	416.098	391.458
<b>20</b>	288.313	289.917	296.341	293.038	292.560
<b>25</b>	247.044	266.680	271.228	268.692	251.772
<b>30</b>	111.192	188.236	251.994	174.984	100.332
<b>35</b>	23.092	51.895	176.246	41.217	21.805
<b>40</b>	14.016	14.147	28.136	13.683	15.513
<b>45</b>	9.268	10.657	13.731	12.530	9.176
<b>50</b>	5.280	9.130	11.795	8.885	5.428
<b>55</b>	7.326	10.198	14.654	9.641	5.405
<b>60</b>	7.853	8.565	10.486	7.953	7.070
<b>65</b>	3.207	3.908	2.512	4.372	4.358
<b>70</b>	1.478	2.242	1.854	1.265	1.015
<b>75</b>	1.057	1.349	0.662	1.493	0.647
<b>80</b>	1.140	1.191	1.064	0.953	0.574
<b>85</b>	0.354	0.936	0.893	0.770	0.422
<b>90</b>	0.889	0.491	0.290	0.248	0.306

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Zone	Lumens	%Lamp	%Fixt
0-20	575.22	N.A.	75.00
0-30	689.80	N.A.	90.00
0-40	742.21	N.A.	96.80
0-60	760.21	N.A.	99.20
0-80	765.81	N.A.	99.90
0-90	766.61	N.A.	100.00
10-90	351.22	N.A.	45.80
20-40	166.99	N.A.	21.80
20-50	176.50	N.A.	23.00
40-70	22.32	N.A.	2.90
60-80	5.60	N.A.	0.70
70-80	1.28	N.A.	0.20
80-90	0.79	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	766.61	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	415.39
10-20	159.84
20-30	114.58
30-40	52.41
40-50	9.52
50-60	8.49
60-70	4.32
70-80	1.28
80-90	0.79
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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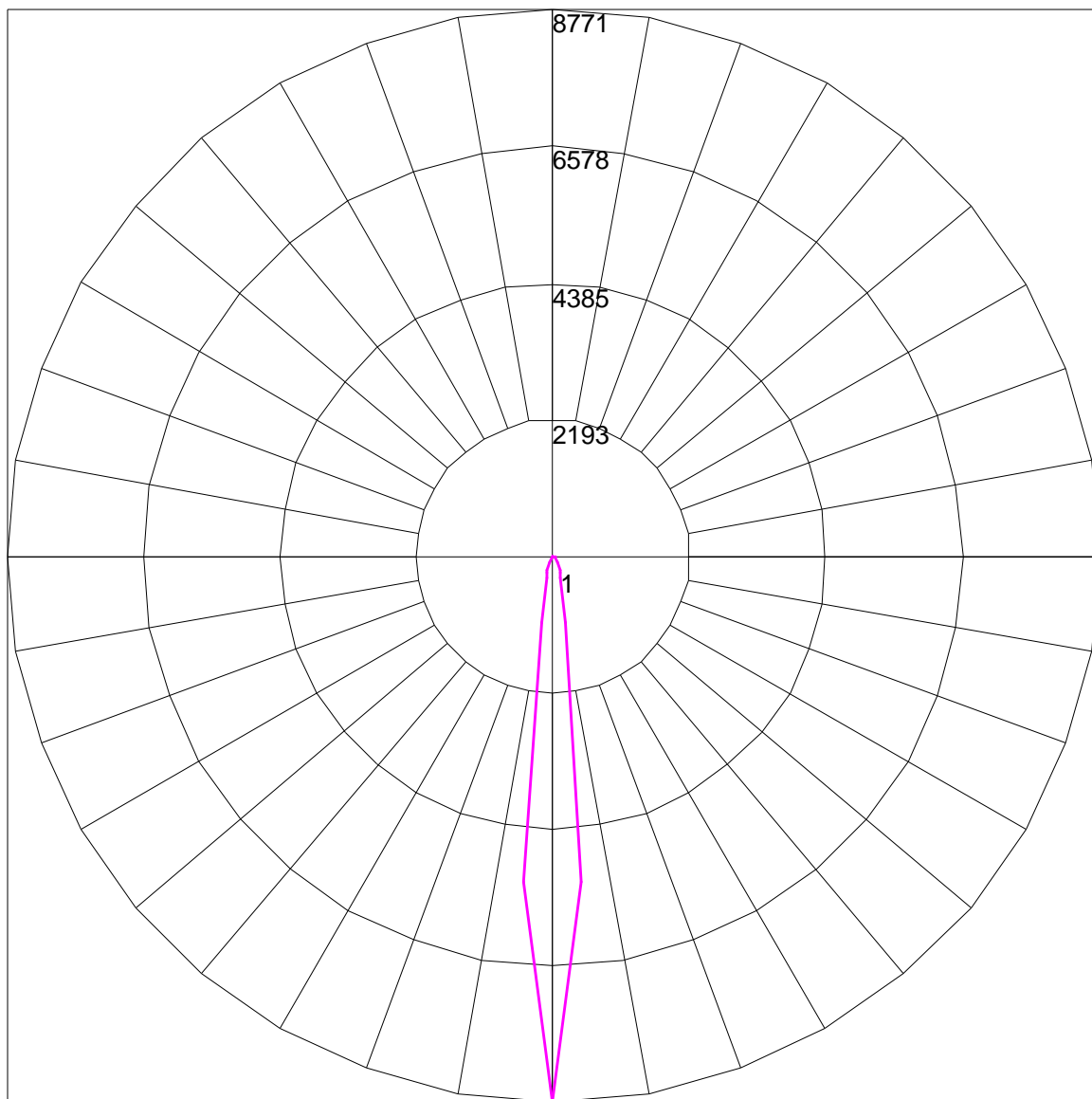
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	109	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	96	100	97	95	98	95	94	95	94	92	91
4	105	100	96	93	103	99	95	93	97	94	92	95	92	91	93	91	90	88
5	102	96	93	90	101	96	92	89	94	91	89	93	90	88	91	89	87	86
6	99	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	85	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	80	78	83	80	78	82	80	78	77

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POLAR GRAPH



Maximum Candela = 8770.662 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)