

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP\_00547\_7 ~ SS4MX-XT10LE1-SDD4X-XXK-MDMWGL.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] SP-00547.7\_M-10L  
[TESTLAB] VLS-245-981  
[MANUFAC] Spectrum Lighting  
[ISSUE DATE] 3/21/2017  
[UPDATE] 4/20/2017  
[LUMCAT] SS4MRx-XT10L-E1-SDD4x-xxK-MD-MW-GL  
[LUMINAIRE] Nom. 4" Square Downlight, Deep profile, Medium Beam  
[OTHER] Matte White Trim, Clear glass lens  
[OTHER] 27.1 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 40L

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	650
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	59
Total Luminaire Watts	11.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.46
Spacing Criterion (90-270)	0.46
Spacing Criterion (Diagonal)	0.50
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\_7 ~ SS4MX-XT10LE1-SDD4X-XXK-MDMWGL.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	7036	10246	7257
55	9381	11188	9592
65	2857	3733	3652
75	848	822	1405
85	1124	1177	900

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP\_00547\_7 ~ SS4MX-XT10LE1-SDD4X-XXK-MDMWGL.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>	1860.208	1860.208	1860.208	1860.208	1860.208
<b>5</b>	1685.966	1715.693	1698.249	1722.542	1695.594
<b>10</b>	1244.656	1274.652	1246.850	1277.319	1250.217
<b>15</b>	801.814	818.919	798.508	821.011	802.413
<b>20</b>	503.363	517.233	501.561	513.351	497.225
<b>25</b>	320.569	352.491	338.381	343.935	313.252
<b>30</b>	160.971	214.907	253.346	205.648	156.612
<b>35</b>	53.284	88.486	154.520	84.242	51.766
<b>40</b>	21.102	27.129	60.190	26.717	20.836
<b>45</b>	18.137	20.985	26.413	21.419	18.707
<b>50</b>	20.019	22.346	25.583	22.783	20.328
<b>55</b>	19.616	21.108	23.394	21.270	20.057
<b>60</b>	12.116	13.876	14.577	13.574	12.876
<b>65</b>	4.401	6.303	5.751	6.458	5.626
<b>70</b>	2.498	2.698	1.969	2.753	2.646
<b>75</b>	0.800	1.633	0.776	1.411	1.326
<b>80</b>	0.499	0.695	0.351	0.491	0.597
<b>85</b>	0.357	0.336	0.374	0.505	0.286
<b>90</b>	0.239	0.117	0.375	0.094	0.357

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Zone	Lumens	%Lamp	%Fixt
0-20	380.37	N.A.	58.50
0-30	538.21	N.A.	82.80
0-40	604.32	N.A.	93.00
0-60	641.29	N.A.	98.70
0-80	649.60	N.A.	99.90
0-90	650.01	N.A.	100.00
10-90	501.18	N.A.	77.10
20-40	223.95	N.A.	34.50
20-50	243.24	N.A.	37.40
40-70	43.84	N.A.	6.70
60-80	8.30	N.A.	1.30
70-80	1.44	N.A.	0.20
80-90	0.41	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	650.01	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	148.83
10-20	231.53
20-30	157.84
30-40	66.11
40-50	19.29
50-60	17.69
60-70	6.87
70-80	1.44
80-90	0.41
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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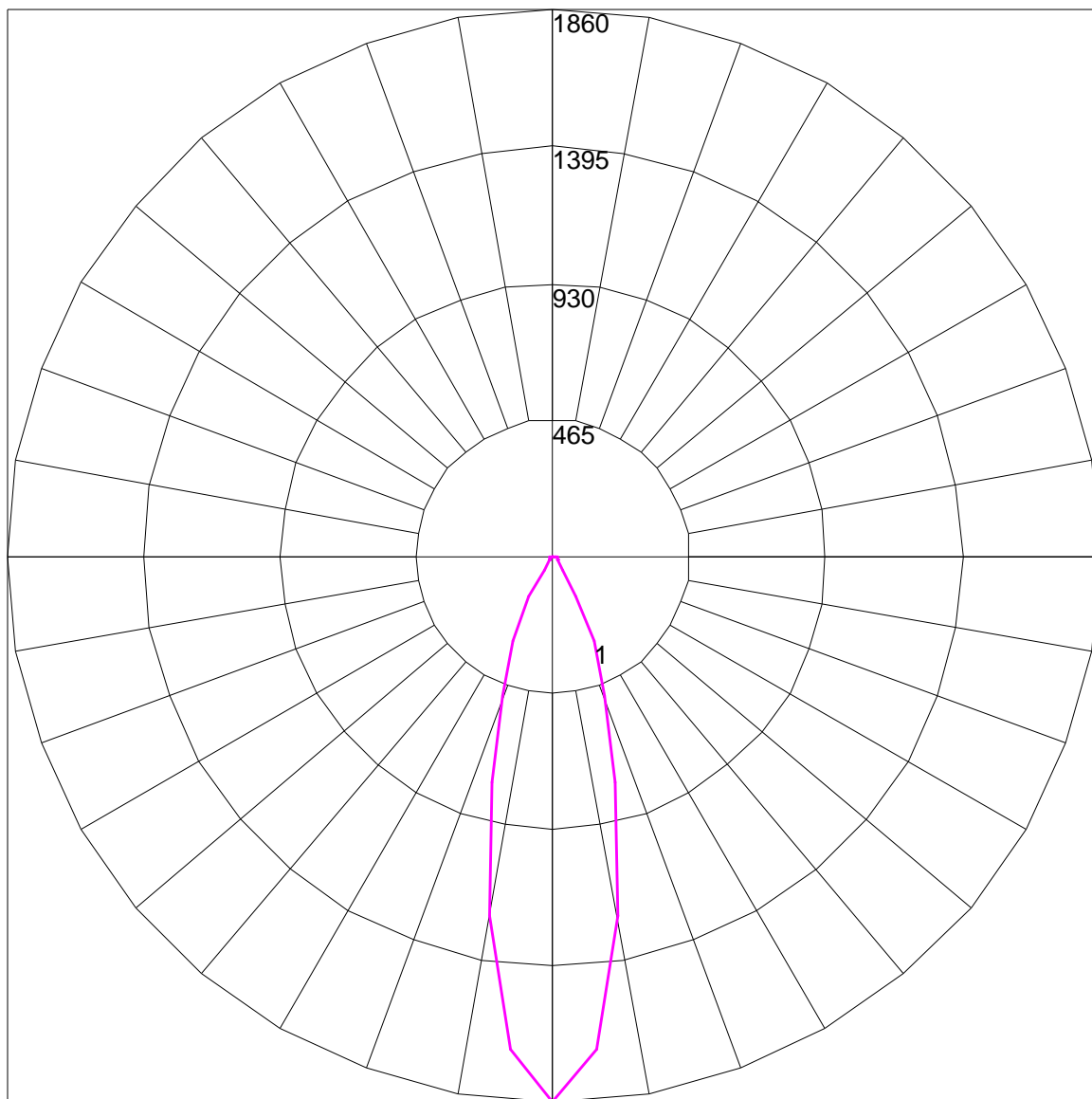
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	92	89	93	90	87	90	88	86	85
4	100	94	89	85	98	92	88	84	90	87	83	88	85	83	87	84	82	80
5	96	89	84	80	95	88	83	80	86	82	79	85	81	78	83	80	78	76
6	92	85	79	76	91	84	79	75	82	78	75	81	77	74	80	77	74	73
7	89	81	76	72	88	80	75	72	79	75	71	78	74	71	77	73	71	69
8	85	77	72	69	84	77	72	68	76	71	68	75	71	68	74	70	68	66
9	82	74	69	66	81	74	69	66	73	68	65	72	68	65	71	68	65	64
10	79	71	66	63	79	71	66	63	70	66	63	69	65	63	69	65	62	61

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POLAR GRAPH



Maximum Candela = 1860.208 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)