

**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : SP\_00547\_13 ~ SS4MX-XT10LE1-SDD4X-XXK-XWMWGL.IES**
**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] SP-00547.13\_M-10L  
 [TESTLAB] VLS-245-981  
 [MANUFAC] Spectrum Lighting  
 [ISSUEDATE] 3/21/2017  
 [UPDATE] 4/20/2017  
 [LUMCAT] SS4MRx-XT10L-E1-SDD4x-xxK-XW-MW-GL  
 [LUMINAIRE] Nom. 4" Square Downlight, Deep profile, Xtra Wide Beam  
 [OTHER] Matte White Trim, Clear glass lens  
 [OTHER] 54.9 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 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	713
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	64
Total Luminaire Watts	11.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.88
Spacing Criterion (90-270)	0.88
Spacing Criterion (Diagonal)	0.90
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\_13 ~ SS4MX-XT10LE1-SDD4X-XXK-XWMWGL.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	12003	13344	11716
55	3679	5216	3493
65	2380	1695	2435
75	1241	1449	1240
85	1120	1454	919

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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>	859.824	859.824	859.824	859.824	859.824
<b>5</b>	852.699	852.961	851.073	848.473	846.238
<b>10</b>	815.219	819.339	813.926	811.481	804.527
<b>15</b>	754.688	766.166	763.134	756.299	744.048
<b>20</b>	657.961	677.603	687.773	668.464	647.344
<b>25</b>	523.714	555.415	577.543	544.195	515.309
<b>30</b>	332.073	383.722	431.742	370.310	326.933
<b>35</b>	157.464	194.987	251.881	184.933	155.591
<b>40</b>	67.831	77.350	99.519	74.629	66.530
<b>45</b>	30.941	33.142	34.398	32.348	30.202
<b>50</b>	14.115	16.460	18.306	16.034	14.340
<b>55</b>	7.693	9.096	10.906	9.407	7.303
<b>60</b>	4.453	4.744	5.253	4.867	3.942
<b>65</b>	3.667	3.670	2.611	3.720	3.751
<b>70</b>	3.207	3.518	2.287	3.708	3.293
<b>75</b>	1.171	1.706	1.367	1.619	1.170
<b>80</b>	0.414	0.457	0.504	0.481	0.450
<b>85</b>	0.356	0.381	0.462	0.374	0.292
<b>90</b>	0.396	0.167	0.399	0.122	0.375

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Zone	Lumens	%Lamp	%Fixt
0-20	291.13	N.A.	40.80
0-30	536.61	N.A.	75.30
0-40	667.59	N.A.	93.70
0-60	707.03	N.A.	99.20
0-80	712.43	N.A.	99.90
0-90	712.84	N.A.	100.00
10-90	632.86	N.A.	88.80
20-40	376.46	N.A.	52.80
20-50	407.12	N.A.	57.10
40-70	43.11	N.A.	6.00
60-80	5.40	N.A.	0.80
70-80	1.73	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	712.84	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	79.98
10-20	211.16
20-30	245.48
30-40	130.98
40-50	30.67
50-60	8.78
60-70	3.67
70-80	1.73
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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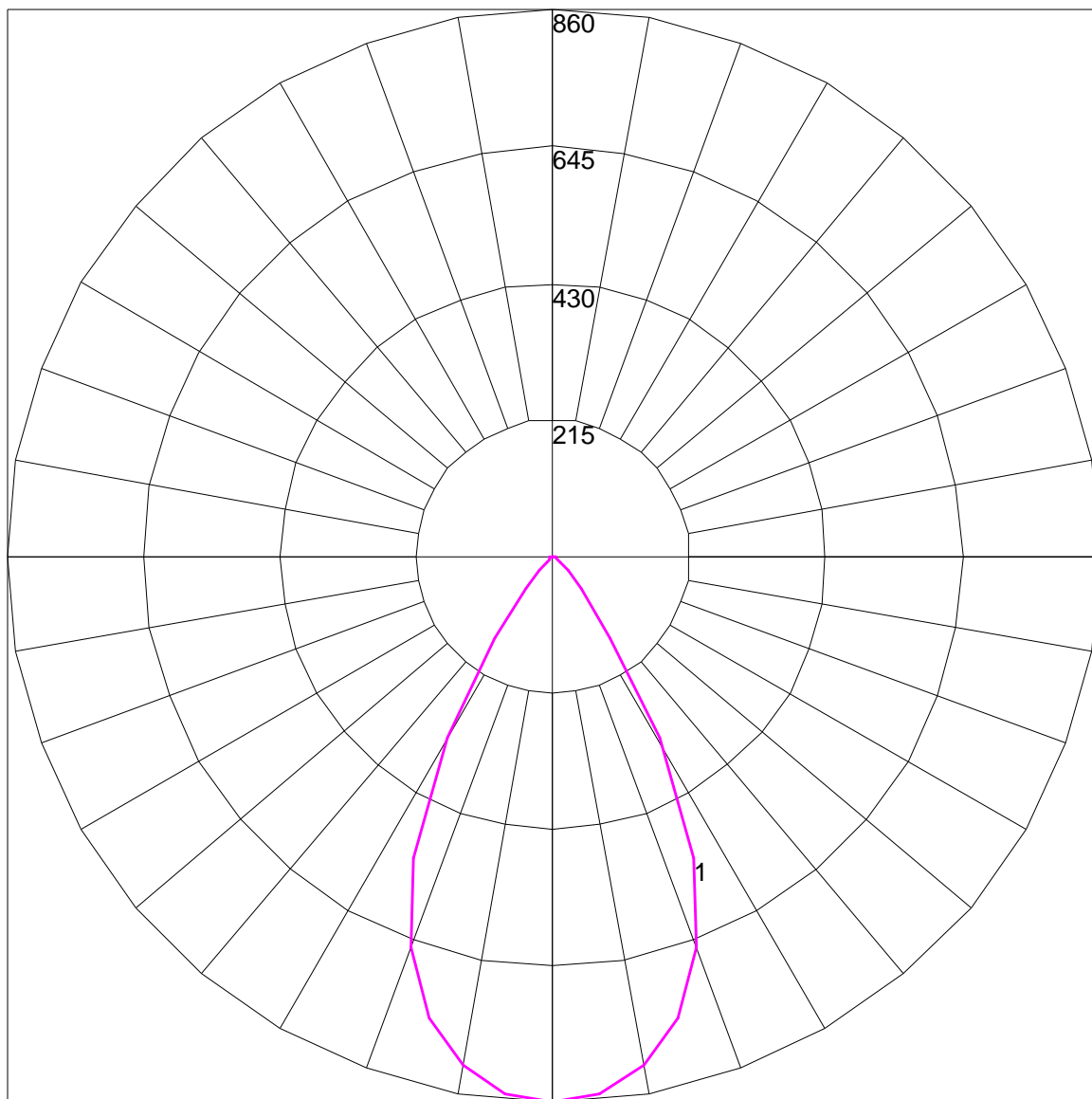
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	111	108	106	111	109	106	104	105	103	101	101	100	98	97	96	95	94
2	108	103	99	96	106	102	98	95	98	95	93	95	93	91	93	91	89	87
3	103	97	92	88	101	95	91	87	93	89	86	90	87	84	88	85	83	81
4	98	90	85	81	96	89	84	80	87	83	79	85	81	79	83	80	78	76
5	93	85	79	75	91	84	79	75	82	77	74	80	76	73	79	75	73	71
6	88	80	74	70	87	79	74	70	78	73	69	76	72	69	75	71	68	67
7	84	75	69	65	83	75	69	65	73	68	65	72	68	64	71	67	64	63
8	80	71	65	61	79	70	65	61	69	64	61	68	64	61	67	63	60	59
9	77	67	61	58	76	67	61	57	66	61	57	65	60	57	64	60	57	56
10	73	64	58	54	72	63	58	54	62	57	54	62	57	54	61	57	54	52

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POLAR GRAPH



Maximum Candela = 859.824 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)