

**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : SP\_00547\_9 ~ SS4MX-XT10LE1-SDD4X-XXK-WDMWNL.IES**
**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] SP-00547.9\_M-10L  
 [TESTLAB] VLS-245-981  
 [MANUFAC] Spectrum Lighting  
 [ISSUEDATE] 3/21/2017  
 [UPDATE] 4/20/2017  
 [LUMCAT] SS4MRx-XT10L-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 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	738
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	66
Total Luminaire Watts	11.1
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

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP\_00547\_9 ~ SS4MX-XT10LE1-SDD4X-XXK-WDMWNL.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	7468	8676	7606
55	5967	6860	5785
65	2181	2014	1927
75	723	904	636
85	1111	1495	1256

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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>	1597.455	1597.455	1597.455	1597.455	1597.455
<b>5</b>	1508.850	1521.747	1512.454	1516.339	1499.262
<b>10</b>	1260.983	1300.162	1292.031	1283.323	1241.861
<b>15</b>	948.885	1002.117	994.173	977.365	928.521
<b>20</b>	672.109	710.819	697.854	694.888	656.640
<b>25</b>	436.084	477.631	467.055	462.501	420.189
<b>30</b>	218.667	280.038	311.993	256.536	200.370
<b>35</b>	69.930	115.968	178.292	94.584	61.449
<b>40</b>	22.624	35.407	67.442	26.458	22.529
<b>45</b>	19.250	18.660	22.364	19.711	19.606
<b>50</b>	16.701	16.489	16.181	17.096	16.610
<b>55</b>	12.478	13.429	14.345	12.716	12.096
<b>60</b>	6.742	8.519	9.445	7.907	6.188
<b>65</b>	3.360	3.686	3.103	3.591	2.969
<b>70</b>	3.404	2.621	1.244	2.978	3.179
<b>75</b>	0.682	1.353	0.853	1.118	0.600
<b>80</b>	0.380	0.291	0.377	0.493	0.411
<b>85</b>	0.353	0.532	0.475	0.339	0.399
<b>90</b>	0.329	0.122	0.316	0.193	0.395

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Zone	Lumens	%Lamp	%Fixt
0-20	408.88	N.A.	55.40
0-30	621.12	N.A.	84.20
0-40	702.10	N.A.	95.20
0-60	731.64	N.A.	99.20
0-80	737.22	N.A.	99.90
0-90	737.63	N.A.	100.00
10-90	600.44	N.A.	81.40
20-40	293.22	N.A.	39.80
20-50	311.37	N.A.	42.20
40-70	33.83	N.A.	4.60
60-80	5.58	N.A.	0.80
70-80	1.29	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	737.63	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	137.19
10-20	271.69
20-30	212.24
30-40	80.98
40-50	18.15
50-60	11.40
60-70	4.29
70-80	1.29
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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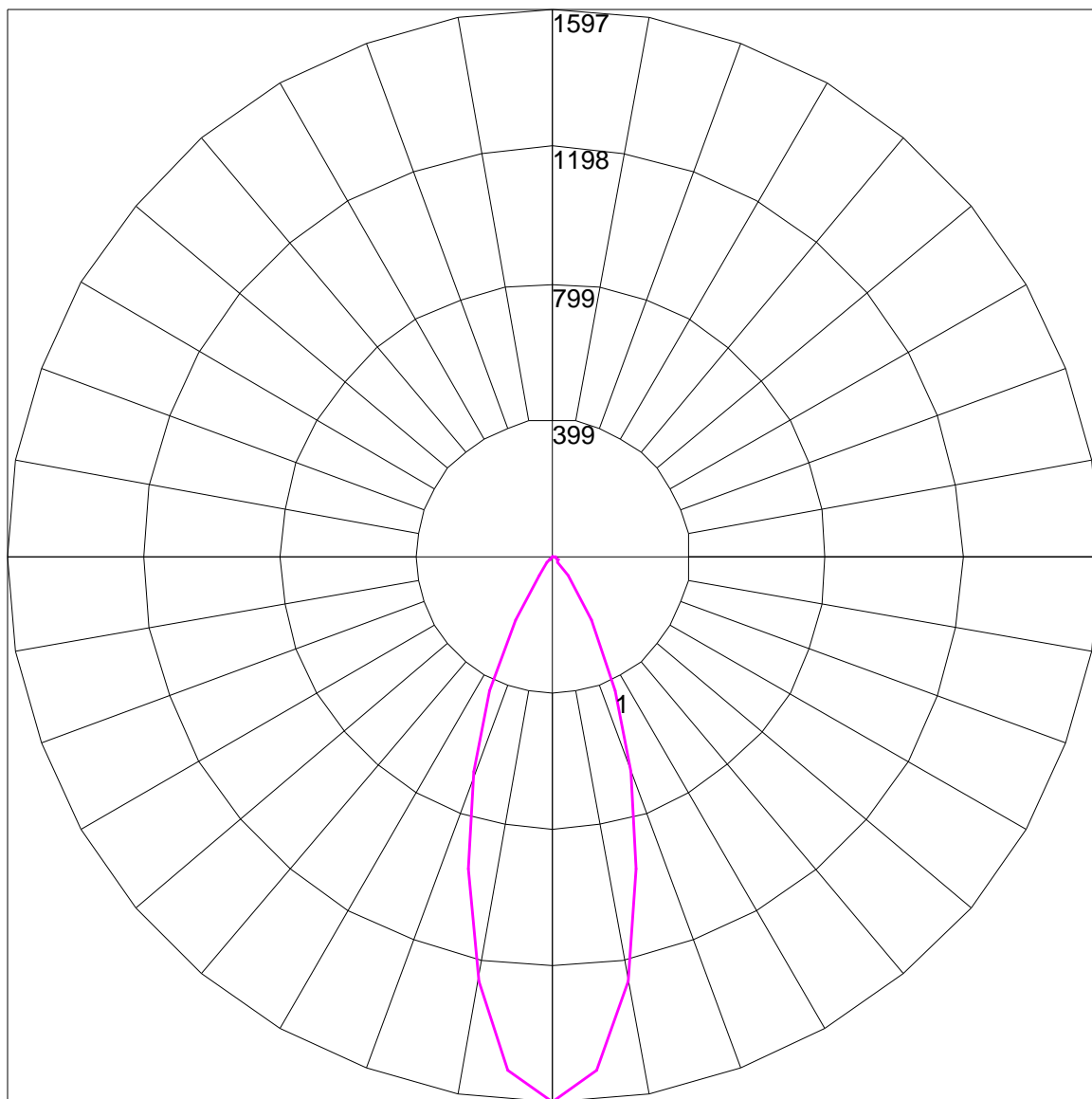
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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

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POLAR GRAPH



Maximum Candela = 1597.455 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)