

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP\_00547\_12 ~ SS4MX-XT10LE1-SDD4X-XXK-XWMWNL.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00547.12\_M-10L

[TESTLAB] VLS-245-981

[MANUFAC] Spectrum Lighting

[ISSUEDATE] 3/21/2017

[UPDATE] 4/21/2017

[LUMCAT] SS4MRx-XT10L-E1-SDD4x-xxK-XW-MW-NL

[LUMINAIRE] Nom. 4" Square Downlight, Deep profile , Xtra Wide Beam

[OTHER] Matte White Trim, No lens

[OTHER] 54.8 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	769
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	69
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\_12 ~ SS4MX-XT10LE1-SDD4X-XXK-XWMWNL.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	9855	11542	10308
55	2615	4034	2966
65	2230	1161	2371
75	1348	962	950
85	1646	1202	859

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP\_00547\_12 ~ SS4MX-XT10LE1-SDD4X-XXK-XWMWNL.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>	943.978	943.978	943.978	943.978	943.978
<b>5</b>	935.234	934.788	932.775	932.684	927.335
<b>10</b>	892.073	895.865	890.267	888.799	882.256
<b>15</b>	823.022	833.097	829.672	829.183	811.833
<b>20</b>	714.040	736.477	745.372	728.514	708.914
<b>25</b>	569.252	600.379	627.494	600.660	563.623
<b>30</b>	364.903	419.010	470.396	412.864	364.066
<b>35</b>	165.620	214.167	277.173	202.624	170.909
<b>40</b>	62.103	77.215	107.529	73.119	64.077
<b>45</b>	25.405	28.486	29.752	28.478	26.571
<b>50</b>	11.247	13.372	14.456	13.264	11.716
<b>55</b>	5.469	7.325	8.435	6.718	6.202
<b>60</b>	3.602	4.420	4.062	4.399	4.209
<b>65</b>	3.435	3.192	1.789	3.285	3.653
<b>70</b>	3.101	3.274	1.334	3.630	3.362
<b>75</b>	1.272	1.168	0.908	1.829	0.896
<b>80</b>	0.446	0.639	0.333	0.386	0.439
<b>85</b>	0.523	0.530	0.382	0.457	0.273
<b>90</b>	0.431	0.188	0.436	0.322	0.478

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Zone	Lumens	%Lamp	%Fixt
0-20	317.95	N.A.	41.30
0-30	585.87	N.A.	76.20
0-40	728.32	N.A.	94.70
0-60	763.75	N.A.	99.30
0-80	768.49	N.A.	99.90
0-90	768.95	N.A.	100.00
10-90	681.28	N.A.	88.60
20-40	410.37	N.A.	53.40
20-50	438.79	N.A.	57.10
40-70	38.64	N.A.	5.00
60-80	4.74	N.A.	0.60
70-80	1.53	N.A.	0.20
80-90	0.46	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	768.95	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	87.67
10-20	230.29
20-30	267.91
30-40	142.45
40-50	28.42
50-60	7.00
60-70	3.21
70-80	1.53
80-90	0.46
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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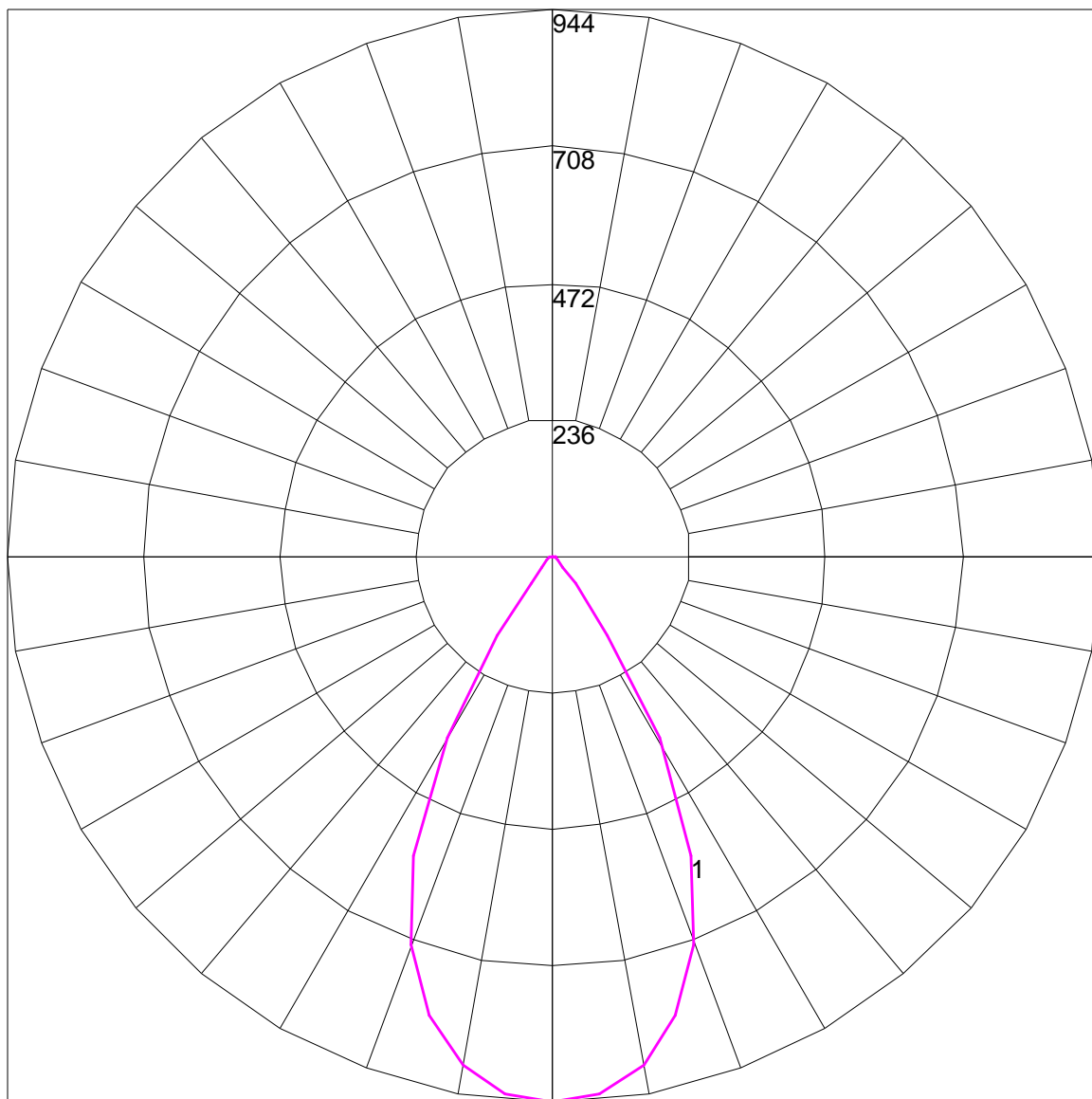
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	106	111	109	107	105	105	103	101	101	100	98	98	97	96	94
2	108	103	100	96	106	102	98	95	99	96	93	96	93	91	93	91	89	88
3	103	97	92	88	101	95	91	87	93	89	86	90	87	85	88	86	83	82
4	98	91	85	81	96	90	85	81	87	83	80	85	82	79	84	81	78	77
5	93	85	80	75	92	84	79	75	83	78	74	81	77	74	79	76	73	72
6	89	80	74	70	87	79	74	70	78	73	70	77	72	69	75	72	69	67
7	85	76	70	66	83	75	70	66	74	69	65	73	68	65	71	68	65	63
8	81	71	66	62	80	71	65	62	70	65	61	69	64	61	68	64	61	60
9	77	68	62	58	76	67	62	58	66	61	58	65	61	58	65	60	57	56
10	74	64	59	55	73	64	58	55	63	58	55	62	58	54	61	57	54	53

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POLAR GRAPH



Maximum Candela = 943.978 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)