

**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : SP\_00547\_8 ~ SS4MX-XT13LE1-SDD4X-XXK-MDMWSO.IES**
**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] SP-00547.8\_M-13L  
 [TESTLAB] VLS-245-981  
 [MANUFAC] Spectrum Lighting  
 [ISSUEDATE] 3/21/2017  
 [UPDATE] 4/20/2017  
 [LUMCAT] SS4MRx-XT13L-E1-SDD4x-xxK-MD-MW-SO  
 [LUMINAIRE] Nom. 4" Square Downlight, Deep profile, Medium Beam  
 [OTHER] Matte White Trim, Solite lens  
 [OTHER] 29.7 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	838
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	56
Total Luminaire Watts	15
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.50
Spacing Criterion (90-270)	0.50
Spacing Criterion (Diagonal)	0.54
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\_8 ~ SS4MX-XT13LE1-SDD4X-XXK-MDMWSO.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	13487	20617	13567
55	9224	12862	9781
65	5903	5963	5773
75	1311	1646	1032
85	1983	1637	1243

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP\_00547\_8 ~ SS4MX-XT13LE1-SDD4X-XXK-MDMWSO.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>	2110.017	2110.017	2110.017	2110.017	2110.017
<b>5</b>	1959.892	1971.418	1949.522	1968.803	1943.079
<b>10</b>	1520.872	1546.932	1510.016	1532.824	1505.289
<b>15</b>	1042.253	1065.385	1036.358	1047.701	1030.141
<b>20</b>	670.675	698.795	685.262	682.313	662.272
<b>25</b>	409.591	451.192	458.646	436.689	404.809
<b>30</b>	224.586	269.343	298.321	256.601	218.065
<b>35</b>	109.850	143.117	174.080	131.073	103.356
<b>40</b>	54.848	72.839	91.235	66.000	52.161
<b>45</b>	34.767	43.941	53.147	41.286	34.972
<b>50</b>	25.753	30.747	37.409	29.968	27.074
<b>55</b>	19.288	21.990	26.894	21.894	20.452
<b>60</b>	14.443	15.209	16.996	15.895	14.193
<b>65</b>	9.094	10.145	9.187	10.523	8.895
<b>70</b>	4.471	5.555	4.134	5.982	4.908
<b>75</b>	1.237	1.890	1.553	1.578	0.974
<b>80</b>	0.584	0.614	0.575	0.796	0.771
<b>85</b>	0.630	0.333	0.520	0.562	0.395
<b>90</b>	0.376	0.251	0.510	0.180	0.299

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Zone	Lumens	%Lamp	%Fixt
0-20	468.49	N.A.	55.90
0-30	674.69	N.A.	80.50
0-40	768.58	N.A.	91.70
0-60	825.31	N.A.	98.50
0-80	837.54	N.A.	99.90
0-90	838.07	N.A.	100.00
10-90	664.70	N.A.	79.30
20-40	300.10	N.A.	35.80
20-50	336.28	N.A.	40.10
40-70	66.63	N.A.	8.00
60-80	12.22	N.A.	1.50
70-80	2.32	N.A.	0.30
80-90	0.53	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	838.07	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	173.37
10-20	295.12
20-30	206.20
30-40	93.89
40-50	36.19
50-60	20.54
60-70	9.90
70-80	2.32
80-90	0.53
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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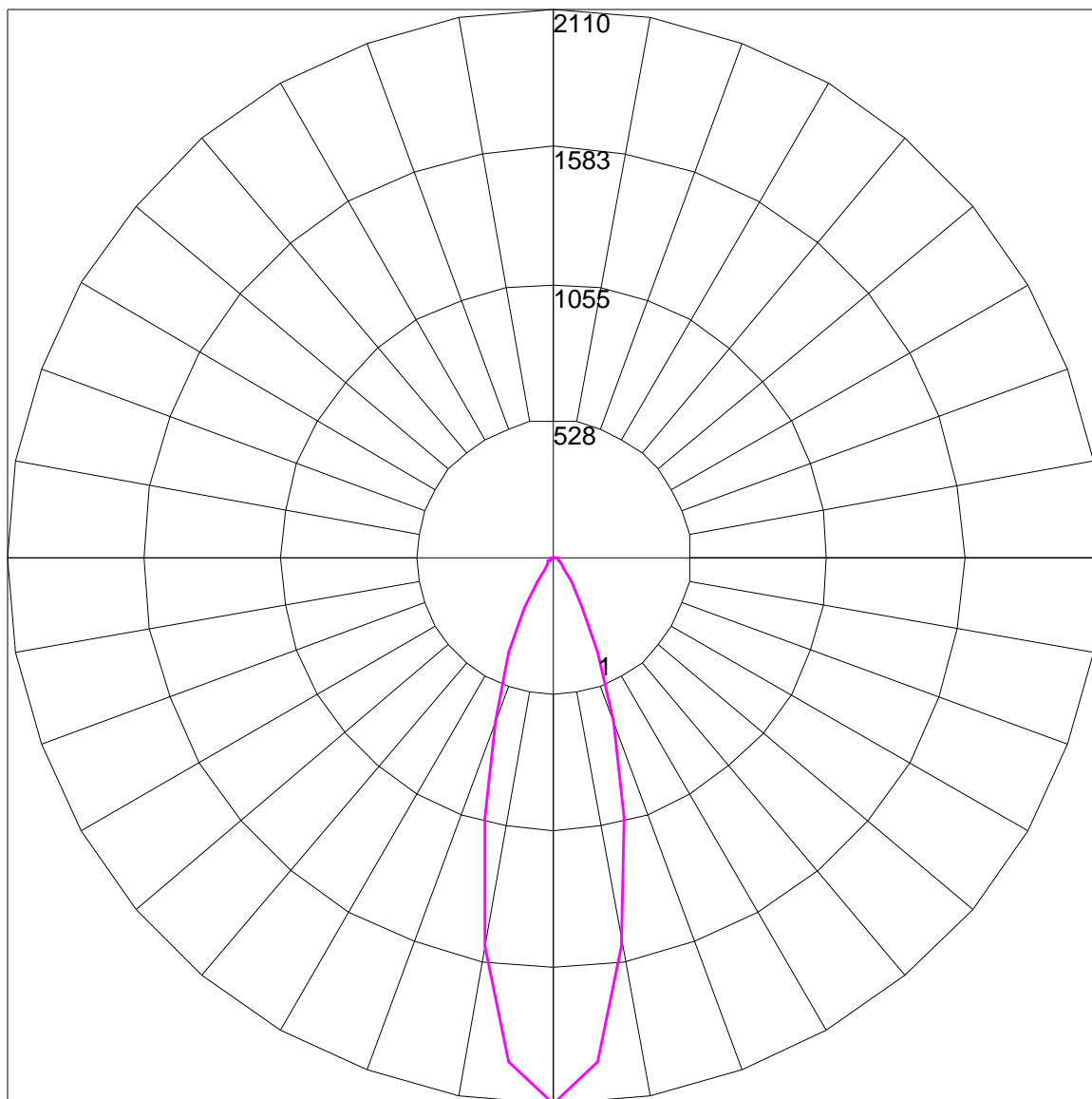
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	101	100	99	98	97	96	94
2	109	104	101	98	107	103	99	96	99	97	94	97	94	92	94	92	90	89
3	104	98	94	90	102	97	93	89	94	91	88	92	89	87	90	87	85	84
4	100	93	88	84	98	92	87	83	90	86	82	88	84	81	86	83	81	79
5	95	88	83	79	94	87	82	78	85	81	78	84	80	77	82	79	76	75
6	91	83	78	74	90	83	78	74	81	77	74	80	76	73	79	75	73	71
7	88	79	74	70	86	79	74	70	78	73	70	76	72	69	75	72	69	68
8	84	76	71	67	83	75	70	67	74	70	67	73	69	66	72	69	66	65
9	81	73	67	64	80	72	67	64	71	67	64	70	66	63	70	66	63	62
10	78	70	65	61	77	69	64	61	68	64	61	68	64	61	67	63	61	59

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POLAR GRAPH



Maximum Candela = 2110.017 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)