

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP\_00547\_13 ~ SS4MX-XT40LE1-SDD4X-XXK-XWMWGL.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] SP-00547.13  
[TESTLAB] VLS-245-981  
[MANUFAC] Spectrum Lighting  
[ISSUE DATE] 3/21/2017  
[UPDATE] 4/21/2017  
[LUMCAT] SS4MRx-XT40L-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 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

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2845
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	71
Total Luminaire Watts	39.9
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-XT40LE1-SDD4X-XXK-XWMWGL.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	47896	53248	46753
55	14682	20812	13937
65	9498	6762	9716
75	4952	5779	4949
85	4475	5797	3670

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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>	3431.063	3431.063	3431.063	3431.063	3431.063
<b>5</b>	3402.631	3403.674	3396.142	3385.768	3376.846
<b>10</b>	3253.070	3269.508	3247.910	3238.151	3210.402
<b>15</b>	3011.526	3057.328	3045.229	3017.953	2969.067
<b>20</b>	2625.543	2703.922	2744.504	2667.453	2583.175
<b>25</b>	2089.839	2216.339	2304.639	2171.570	2056.302
<b>30</b>	1325.113	1531.214	1722.833	1477.693	1304.602
<b>35</b>	628.348	778.081	1005.110	737.960	620.873
<b>40</b>	270.673	308.660	397.122	297.802	265.483
<b>45</b>	123.466	132.249	137.263	129.084	120.520
<b>50</b>	56.326	65.683	73.047	63.984	57.224
<b>55</b>	30.700	36.297	43.519	37.536	29.143
<b>60</b>	17.769	18.931	20.963	19.422	15.729
<b>65</b>	14.633	14.643	10.418	14.843	14.969
<b>70</b>	12.798	14.038	9.127	14.797	13.140
<b>75</b>	4.672	6.807	5.453	6.459	4.670
<b>80</b>	1.651	1.825	2.010	1.919	1.796
<b>85</b>	1.422	1.522	1.842	1.494	1.166
<b>90</b>	1.581	0.665	1.594	0.488	1.497

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Zone	Lumens	%Lamp	%Fixt
0-20	1161.75	N.A.	40.80
0-30	2141.3	N.A.	75.30
0-40	2663.96	N.A.	93.70
0-60	2821.35	N.A.	99.20
0-80	2842.9	N.A.	99.90
0-90	2844.54	N.A.	100.00
10-90	2525.4	N.A.	88.80
20-40	1502.21	N.A.	52.80
20-50	1624.58	N.A.	57.10
40-70	172.02	N.A.	6.00
60-80	21.56	N.A.	0.80
70-80	6.92	N.A.	0.20
80-90	1.64	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	2844.54	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	319.15
10-20	842.60
20-30	979.55
30-40	522.66
40-50	122.37
50-60	35.02
60-70	14.63
70-80	6.92
80-90	1.64
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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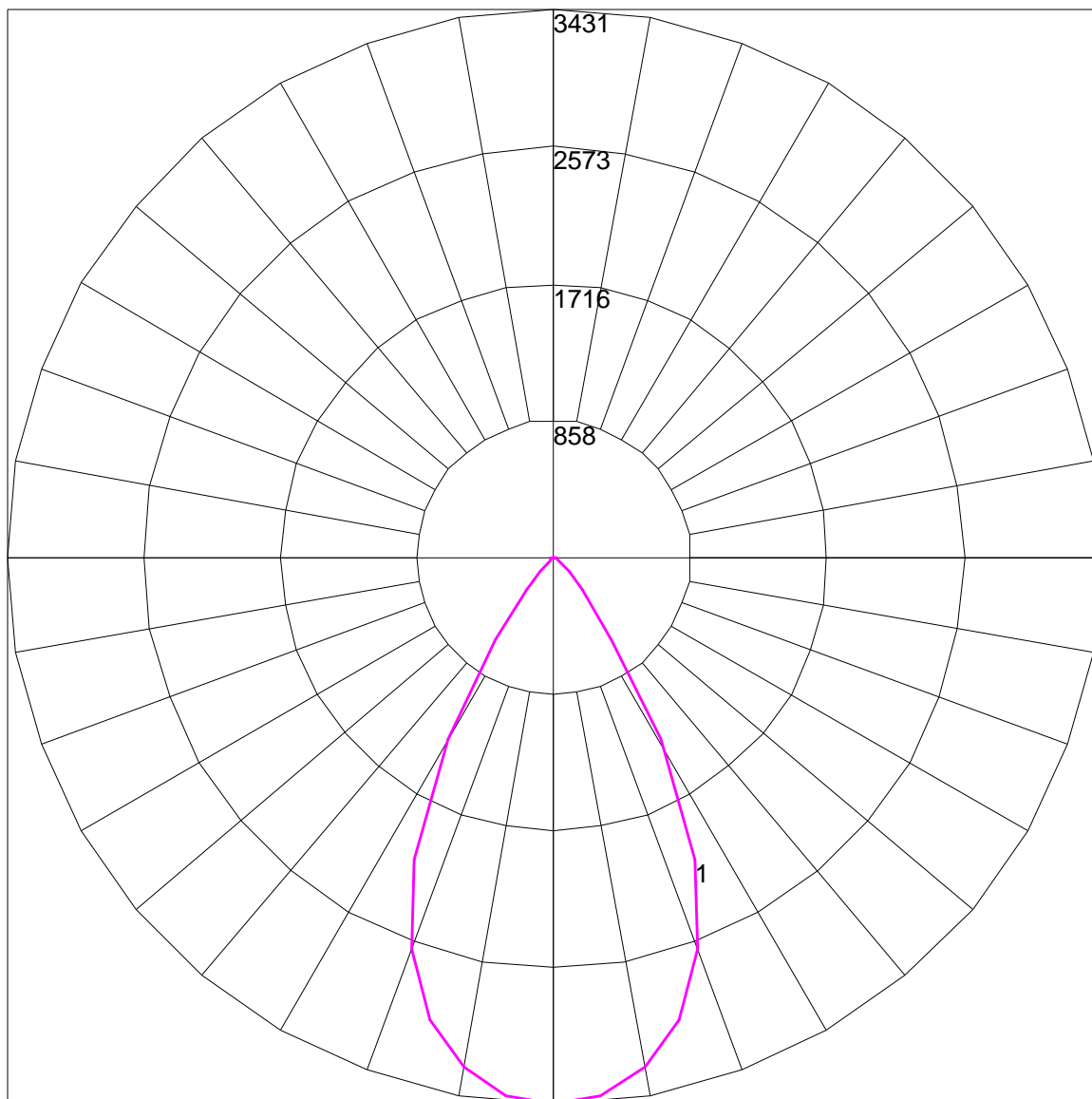
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	105	105	103	101	101	100	98	98	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	78	74	80	76	73	79	75	73	71
6	89	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	58	54	62	57	54	61	57	54	52

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POLAR GRAPH



Maximum Candela = 3431.063 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)