

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP\_00547\_14 ~ SS4MX-XT40LE1-SDD4X-XXK-XWMWSO.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] SP-00547.14  
[TESTLAB] VLS-245-981  
[MANUFAC] Spectrum Lighting  
[ISSUE DATE] 3/21/2017  
[UPDATE] 4/21/2017  
[LUMCAT] SS4MRx-XT40L-E1-SDD4x-xxK-XW-MW-SO  
[LUMINAIRE] Nom. 4" Square Downlight, Deep profile, Xtra Wide Beam  
[OTHER] Matte White Trim, Solite lens  
[OTHER] 53.3 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	2731
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	68
Total Luminaire Watts	39.9
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.86
Spacing Criterion (90-270)	0.84
Spacing Criterion (Diagonal)	0.86
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\_14 ~ SS4MX-XT40LE1-SDD4X-XXK-XWMWSO.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	69103	88679	66654
55	25960	33467	25291
65	14109	15154	14484
75	3177	3930	3302
85	4948	4066	3286

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP\_00547\_14 ~ SS4MX-XT40LE1-SDD4X-XXK-XWMWSO.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>	3259.130	3259.130	3259.130	3259.130	3259.130
<b>5</b>	3235.094	3238.516	3226.221	3227.595	3211.453
<b>10</b>	3096.679	3109.190	3093.870	3086.931	3061.195
<b>15</b>	2831.133	2868.155	2858.739	2847.808	2799.855
<b>20</b>	2420.307	2493.473	2516.114	2473.274	2393.420
<b>25</b>	1840.549	1966.656	2040.107	1949.185	1822.532
<b>30</b>	1196.319	1339.301	1445.954	1308.315	1168.159
<b>35</b>	663.345	783.145	868.189	734.100	631.494
<b>40</b>	340.425	406.926	456.228	376.082	325.264
<b>45</b>	178.135	204.397	228.598	197.892	171.823
<b>50</b>	92.883	105.962	121.109	105.742	90.382
<b>55</b>	54.283	60.768	69.980	60.608	52.883
<b>60</b>	33.206	37.783	41.689	37.960	34.428
<b>65</b>	21.738	22.550	23.348	23.261	22.315
<b>70</b>	10.274	12.246	11.306	11.982	11.335
<b>75</b>	2.998	3.886	3.708	4.009	3.116
<b>80</b>	1.996	1.480	1.988	2.022	1.966
<b>85</b>	1.572	1.548	1.292	2.151	1.044
<b>90</b>	1.107	1.493	1.411	1.128	1.925

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Zone	Lumens	%Lamp	%Fixt
0-20	1094.47	N.A.	40.10
0-30	1971.27	N.A.	72.20
0-40	2469.22	N.A.	90.40
0-60	2700.73	N.A.	98.90
0-80	2729.63	N.A.	99.90
0-90	2731.38	N.A.	100.00
10-90	2427.69	N.A.	88.90
20-40	1374.75	N.A.	50.30
20-50	1546.97	N.A.	56.60
40-70	254.95	N.A.	9.30
60-80	28.91	N.A.	1.10
70-80	5.47	N.A.	0.20
80-90	1.75	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	2731.38	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	303.69
10-20	790.78
20-30	876.80
30-40	497.95
40-50	172.22
50-60	59.28
60-70	23.44
70-80	5.47
80-90	1.75
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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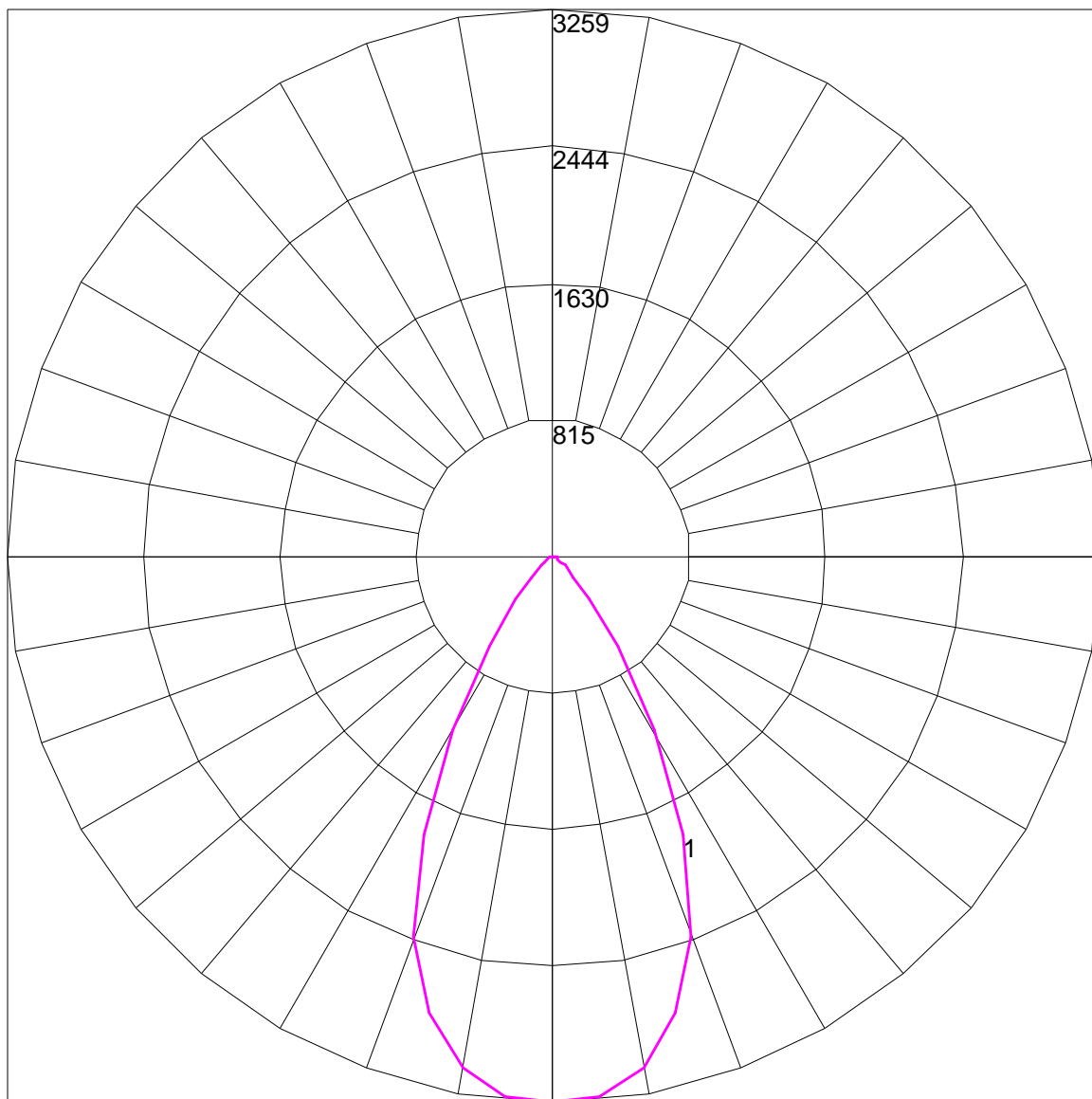
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	113	111	108	106	111	109	106	104	104	103	101	101	99	98	97	96	95	93
2	108	103	99	95	106	101	97	94	98	95	92	95	92	90	92	90	88	87
3	102	96	91	87	100	94	90	86	92	88	85	89	86	83	87	85	82	81
4	97	90	84	80	95	88	83	79	86	82	78	84	81	77	82	79	77	75
5	92	84	78	74	91	83	77	73	81	76	73	79	75	72	78	74	71	70
6	88	79	73	69	86	78	72	68	76	72	68	75	71	67	74	70	67	65
7	83	74	68	64	82	73	68	64	72	67	63	71	66	63	70	66	63	61
8	79	70	64	60	78	69	64	60	68	63	59	67	63	59	66	62	59	58
9	76	66	60	56	75	66	60	56	65	60	56	64	59	56	63	59	56	54
10	72	63	57	53	71	62	57	53	61	56	53	61	56	53	60	56	52	51

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POLAR GRAPH



Maximum Candela = 3259.13 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)