

**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : SP\_00547\_12 ~ SS4MX-XT40LE1-SDD4X-XXK-XWMWNL.IES**
**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] SP-00547.12  
 [TESTLAB] VLS-245-981  
 [MANUFAC] Spectrum Lighting  
 [ISSUEDATE] 3/21/2017  
 [UPDATE] 4/21/2017  
 [LUMCAT] SS4MRx-XT40L-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 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	3068
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	77
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\_12 ~ SS4MX-XT40LE1-SDD4X-XXK-XWMWNL.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	39327	46056	41131
55	10437	16098	11835
65	8896	4634	9461
75	5378	3839	3789
85	6568	4800	3434

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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>	3766.870	3766.870	3766.870	3766.870	3766.870
<b>5</b>	3731.981	3730.199	3722.166	3721.805	3700.458
<b>10</b>	3559.749	3574.881	3552.540	3546.685	3520.575
<b>15</b>	3284.206	3324.409	3310.742	3308.791	3239.557
<b>20</b>	2849.321	2938.855	2974.348	2907.077	2828.866
<b>25</b>	2271.558	2395.768	2503.966	2396.886	2249.093
<b>30</b>	1456.119	1672.029	1877.080	1647.502	1452.776
<b>35</b>	660.893	854.616	1106.037	808.557	682.001
<b>40</b>	247.817	308.121	429.085	291.776	255.696
<b>45</b>	101.378	113.670	118.724	113.641	106.028
<b>50</b>	44.882	53.358	57.687	52.928	46.750
<b>55</b>	21.823	29.228	33.661	26.806	24.748
<b>60</b>	14.373	17.636	16.211	17.555	16.794
<b>65</b>	13.706	12.736	7.139	13.108	14.577
<b>70</b>	12.375	13.066	5.324	14.486	13.415
<b>75</b>	5.074	4.660	3.622	7.298	3.575
<b>80</b>	1.778	2.550	1.328	1.540	1.750
<b>85</b>	2.087	2.115	1.525	1.824	1.091
<b>90</b>	1.720	0.749	1.741	1.285	1.908

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Zone	Lumens	%Lamp	%Fixt
0-20	1268.77	N.A.	41.30
0-30	2337.86	N.A.	76.20
0-40	2906.31	N.A.	94.70
0-60	3047.67	N.A.	99.30
0-80	3066.59	N.A.	99.90
0-90	3068.42	N.A.	100.00
10-90	2718.6	N.A.	88.60
20-40	1637.54	N.A.	53.40
20-50	1750.95	N.A.	57.10
40-70	154.18	N.A.	5.00
60-80	18.92	N.A.	0.60
70-80	6.10	N.A.	0.20
80-90	1.83	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	3068.42	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	349.83
10-20	918.95
20-30	1069.08
30-40	568.45
40-50	113.42
50-60	27.94
60-70	12.82
70-80	6.10
80-90	1.83
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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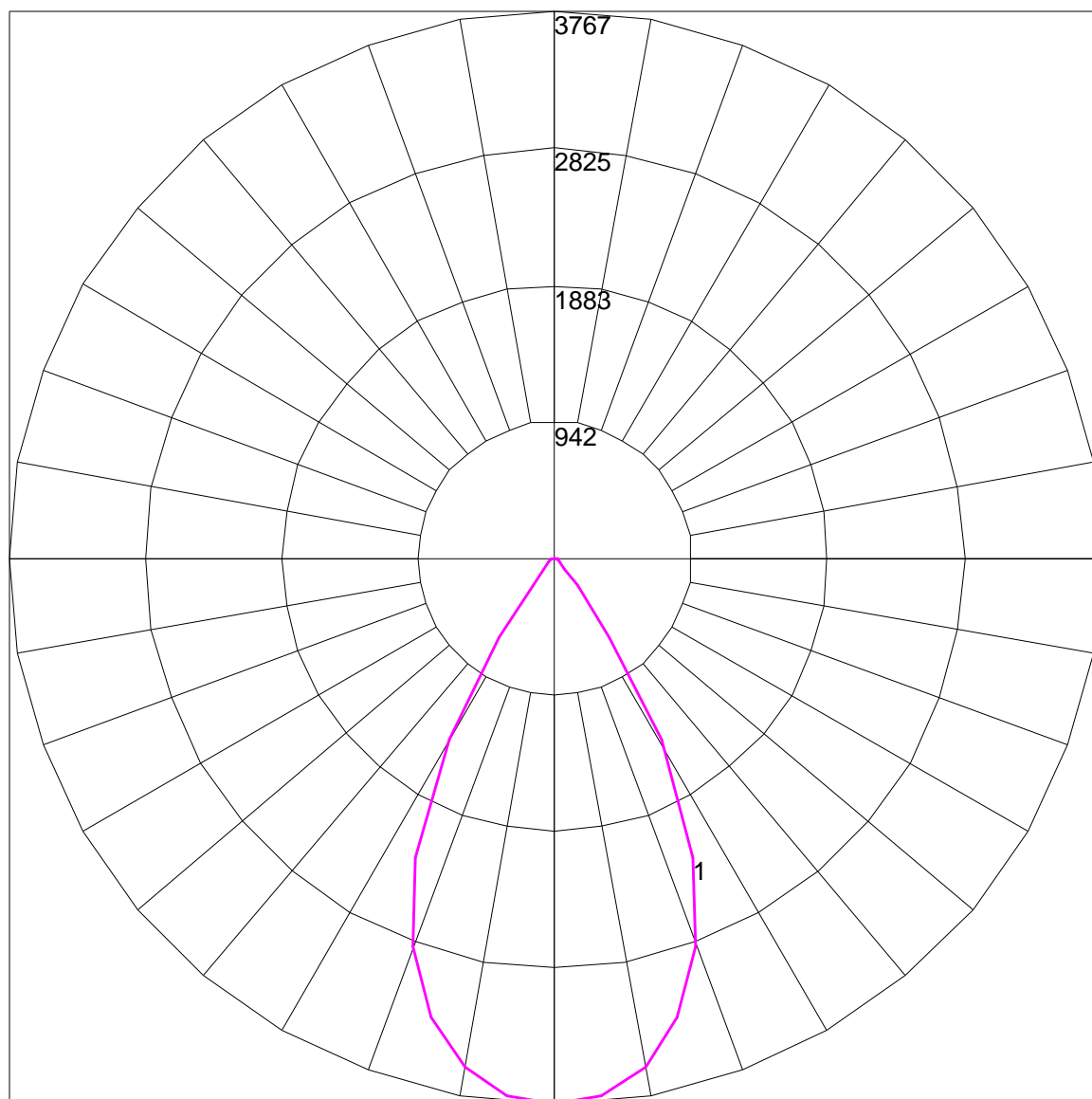
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	104	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	86	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	72	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 = 3766.87 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)