

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP\_00547\_13 ~ SS4MX-XT30LE1-SDD4X-XXK-XWMWGL.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] SP-00547.13\_M-30L  
[TESTLAB] VLS-245-981  
[MANUFAC] Spectrum Lighting  
[ISSUE DATE] 3/21/2017  
[UPDATE] 4/21/2017  
[LUMCAT] SS4MRx-XT30L-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, scaled from 40L

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2216
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	64
Total Luminaire Watts	34.6
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-XT30LE1-SDD4X-XXK-XWMWGL.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	37320	41491	36430
55	11440	16217	10860
65	7401	5269	7571
75	3858	4503	3857
85	3487	4516	2861

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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>	2673.484	2673.484	2673.484	2673.484	2673.484
<b>5</b>	2651.330	2652.143	2646.274	2638.190	2631.238
<b>10</b>	2534.792	2547.601	2530.772	2523.167	2501.545
<b>15</b>	2346.581	2382.270	2372.842	2351.589	2313.497
<b>20</b>	2045.823	2106.896	2138.518	2078.479	2012.810
<b>25</b>	1628.403	1726.971	1795.775	1692.087	1602.271
<b>30</b>	1032.528	1193.122	1342.432	1151.418	1016.546
<b>35</b>	489.609	606.281	783.182	575.018	483.784
<b>40</b>	210.908	240.508	309.437	232.047	206.864
<b>45</b>	96.205	103.048	106.955	100.582	93.909
<b>50</b>	43.889	51.180	56.918	49.856	44.589
<b>55</b>	23.921	28.283	33.910	29.248	22.708
<b>60</b>	13.846	14.751	16.334	15.134	12.256
<b>65</b>	11.402	11.410	8.118	11.566	11.664
<b>70</b>	9.972	10.938	7.112	11.530	10.239
<b>75</b>	3.640	5.304	4.249	5.033	3.639
<b>80</b>	1.286	1.422	1.566	1.495	1.399
<b>85</b>	1.108	1.186	1.435	1.164	0.909
<b>90</b>	1.232	0.518	1.242	0.380	1.166

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Zone	Lumens	%Lamp	%Fixt
0-20	905.23	N.A.	40.80
0-30	1668.5	N.A.	75.30
0-40	2075.76	N.A.	93.70
0-60	2198.39	N.A.	99.20
0-80	2215.19	N.A.	99.90
0-90	2216.47	N.A.	100.00
10-90	1967.79	N.A.	88.80
20-40	1170.53	N.A.	52.80
20-50	1265.88	N.A.	57.10
40-70	134.04	N.A.	6.00
60-80	16.80	N.A.	0.80
70-80	5.39	N.A.	0.20
80-90	1.28	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	2216.47	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	248.68
10-20	656.55
20-30	763.27
30-40	407.26
40-50	95.35
50-60	27.29
60-70	11.40
70-80	5.39
80-90	1.28
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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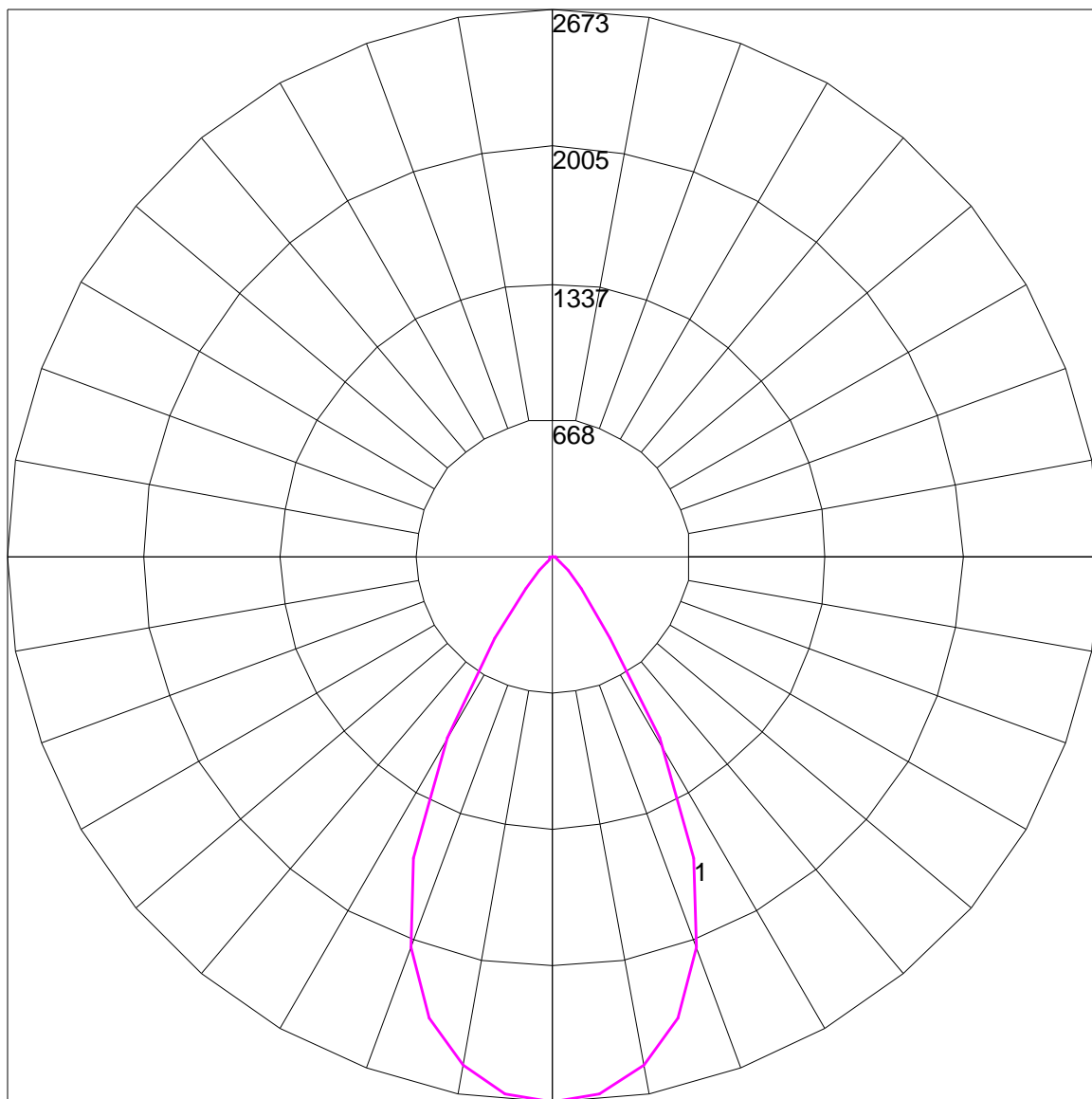
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	107	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	82
4	98	90	85	81	96	89	84	80	87	83	79	85	82	79	83	80	78	76
5	93	85	79	75	91	84	79	75	82	78	74	81	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	71	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	63	58	54	62	57	54	61	57	54	53

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POLAR GRAPH



Maximum Candela = 2673.484 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)