

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP\_00547\_11 ~ SS4MX-XT30LE1-SDD4X-XXK-WDMWSO.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] SP-00547.11\_M-30L  
[TESTLAB] VLS-245-981  
[MANUFAC] Spectrum Lighting  
[ISSUE DATE] 3/21/2017  
[UPDATE] 4/20/2017  
[LUMCAT] SS4MRx-XT30L-E1-SDD4x-xxK-WD-MW-SO  
[LUMINAIRE] Nom. 4" Square Downlight, Deep profile, Wide Beam  
[OTHER] Matte White Trim, Solite lens  
[OTHER] 37.2 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	2025
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	59
Total Luminaire Watts	34.6
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.62
Spacing Criterion (90-270)	0.60
Spacing Criterion (Diagonal)	0.66
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\_11 ~ SS4MX-XT30LE1-SDD4X-XXK-WDMWSO.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	33989	48561	34674
55	19401	25313	20265
65	12184	11436	12042
75	2655	2888	2481
85	6358	5709	3314

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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>	4003.696	4003.696	4003.696	4003.696	4003.696
<b>5</b>	3823.402	3838.405	3814.105	3822.895	3794.346
<b>10</b>	3271.629	3308.787	3265.423	3278.337	3227.425
<b>15</b>	2534.399	2596.772	2551.922	2555.151	2489.119
<b>20</b>	1797.279	1876.872	1846.692	1838.033	1761.253
<b>25</b>	1146.963	1241.247	1254.966	1206.262	1116.478
<b>30</b>	637.467	730.156	789.619	696.372	602.501
<b>35</b>	310.777	380.385	445.963	348.757	282.839
<b>40</b>	151.770	190.159	229.208	173.141	143.342
<b>45</b>	87.617	107.526	125.182	102.427	89.382
<b>50</b>	57.746	68.424	80.931	66.668	61.399
<b>55</b>	40.568	46.267	52.929	46.596	42.375
<b>60</b>	27.818	30.263	31.996	31.545	29.268
<b>65</b>	18.772	18.736	17.620	19.891	18.553
<b>70</b>	9.860	10.482	8.320	11.986	10.289
<b>75</b>	2.505	3.501	2.725	3.563	2.341
<b>80</b>	1.590	1.630	1.722	1.326	1.573
<b>85</b>	2.020	1.396	1.814	1.385	1.053
<b>90</b>	0.749	0.643	1.197	0.746	0.613

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Zone	Lumens	%Lamp	%Fixt
0-20	1054.93	N.A.	52.10
0-30	1616.84	N.A.	79.80
0-40	1867.7	N.A.	92.20
0-60	1999.94	N.A.	98.70
0-80	2023.96	N.A.	99.90
0-90	2025.45	N.A.	100.00
10-90	1678.04	N.A.	82.80
20-40	812.77	N.A.	40.10
20-50	901.96	N.A.	44.50
40-70	151.56	N.A.	7.50
60-80	24.02	N.A.	1.20
70-80	4.70	N.A.	0.20
80-90	1.49	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	2025.45	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	347.41
10-20	707.52
20-30	561.91
30-40	250.86
40-50	89.19
50-60	43.05
60-70	19.32
70-80	4.70
80-90	1.49
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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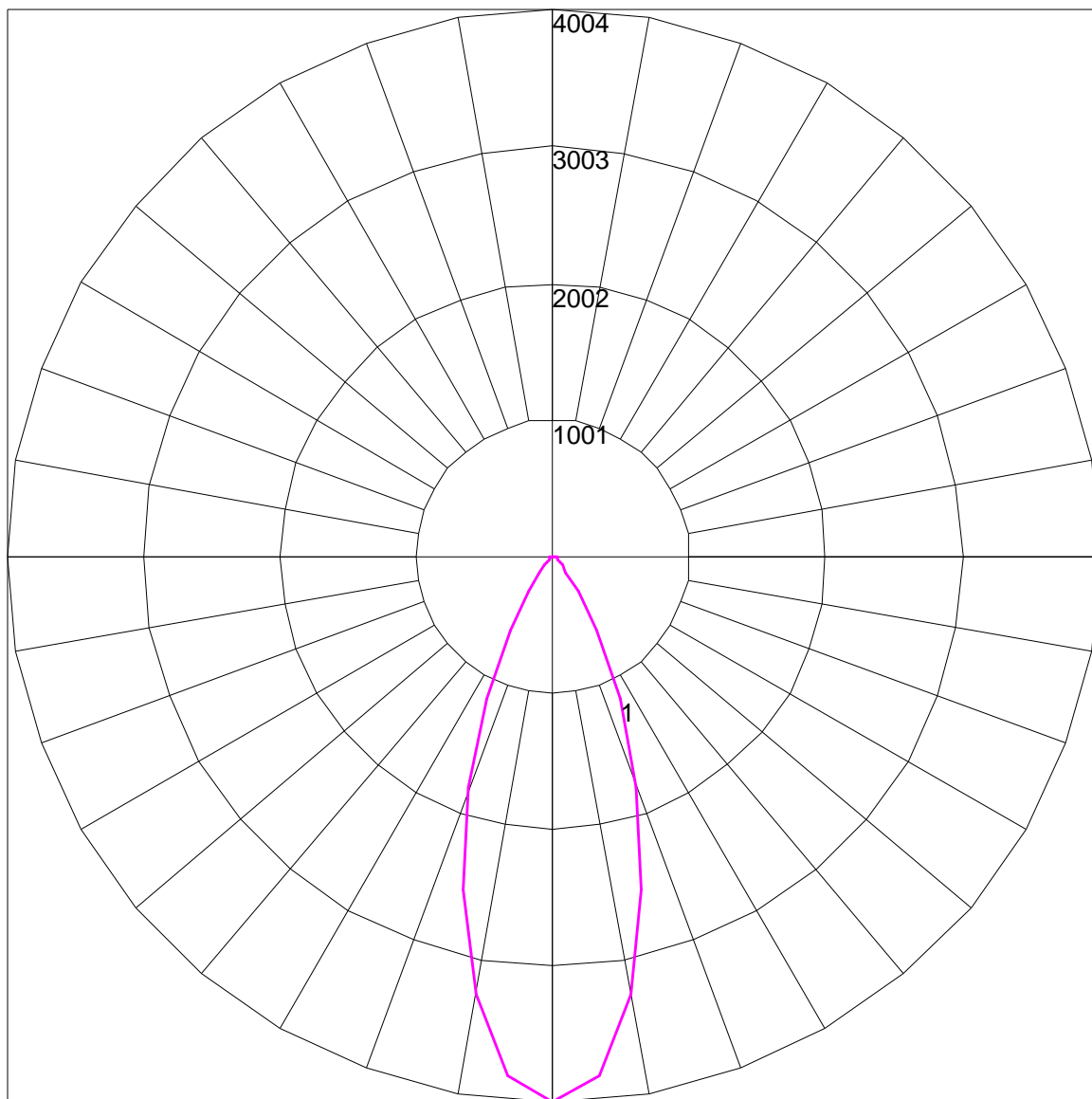
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	111	109	107	105	105	103	102	101	100	99	98	97	96	94
2	109	104	100	97	107	102	99	96	99	96	94	96	94	92	94	92	90	88
3	104	98	93	89	102	96	92	89	94	90	87	91	88	86	89	87	85	83
4	99	92	87	83	97	91	86	83	89	85	82	87	83	81	85	82	80	78
5	95	87	82	78	93	86	81	77	84	80	77	83	79	76	81	78	75	74
6	91	82	77	73	89	82	77	73	80	76	72	79	75	72	78	74	71	70
7	87	78	73	69	86	78	72	69	76	72	68	75	71	68	74	71	68	66
8	83	75	69	65	82	74	69	65	73	68	65	72	68	65	71	67	64	63
9	80	71	66	62	79	71	65	62	70	65	62	69	65	62	68	64	61	60
10	77	68	63	59	76	68	62	59	67	62	59	66	62	59	65	61	59	57

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POLAR GRAPH



Maximum Candela = 4003.696 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)