

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP\_00547\_4 ~ SS4MX-XT30LE1-SDD4X-XXK-NDMWGL.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] SP-00547.4\_M-30L  
[TESTLAB] VLS-245-981  
[MANUFAC] Spectrum Lighting  
[ISSUE DATE] 3/21/2017  
[UPDATE] 4/20/2017  
[LUMCAT] SS4MRx-XT30L-E1-SDD4x-xxK-ND-MW-GL  
[LUMINAIRE] Nom. 4" Square Downlight, Deep profile, Narrow Beam  
[OTHER] Matte White Trim, Clear glass lens  
[OTHER] 18.9 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	2065
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	60
Total Luminaire Watts	34.6
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.34
Spacing Criterion (90-270)	0.34
Spacing Criterion (Diagonal)	0.36
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\_4 ~ SS4MX-XT30LE1-SDD4X-XXK-NDMWGL.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	13162	22211	14740
55	13390	25725	15167
65	9250	11053	8470
75	2010	2708	2442
85	4693	4312	3550

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP\_00547\_4 ~ SS4MX-XT30LE1-SDD4X-XXK-NDMWGL.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>	10235.579	10235.579	10235.579	10235.579	10235.579
<b>5</b>	8477.260	8637.752	8263.782	8721.259	8593.111
<b>10</b>	4627.734	4724.063	4537.715	4713.905	4630.993
<b>15</b>	2151.927	2223.591	2160.453	2209.288	2158.446
<b>20</b>	1240.301	1240.479	1191.236	1247.657	1233.612
<b>25</b>	836.936	901.890	887.178	879.579	813.497
<b>30</b>	426.116	583.348	756.818	532.986	407.944
<b>35</b>	121.699	241.201	447.484	207.456	126.241
<b>40</b>	52.599	67.604	144.622	62.111	54.138
<b>45</b>	33.928	47.824	57.257	43.328	37.998
<b>50</b>	23.800	38.941	51.820	35.832	25.626
<b>55</b>	27.999	37.659	53.791	40.310	31.714
<b>60</b>	33.839	36.683	48.331	38.418	32.474
<b>65</b>	14.252	17.818	17.030	18.162	13.050
<b>70</b>	4.561	6.836	3.839	6.293	3.813
<b>75</b>	1.897	2.900	2.555	2.807	2.304
<b>80</b>	0.964	1.650	1.222	1.403	0.720
<b>85</b>	1.491	1.291	1.370	1.258	1.128
<b>90</b>	1.209	0.347	1.667	0.424	1.130

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Zone	Lumens	%Lamp	%Fixt
0-20	1383.52	N.A.	67.00
0-30	1787.03	N.A.	86.60
0-40	1965.11	N.A.	95.20
0-60	2041.17	N.A.	98.90
0-80	2063.4	N.A.	99.90
0-90	2064.7	N.A.	100.00
10-90	1368.38	N.A.	66.30
20-40	581.60	N.A.	28.20
20-50	622.26	N.A.	30.10
40-70	95.19	N.A.	4.60
60-80	22.22	N.A.	1.10
70-80	3.10	N.A.	0.20
80-90	1.31	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	2064.7	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	696.33
10-20	687.19
20-30	403.51
30-40	178.08
40-50	40.66
50-60	35.40
60-70	19.13
70-80	3.10
80-90	1.31
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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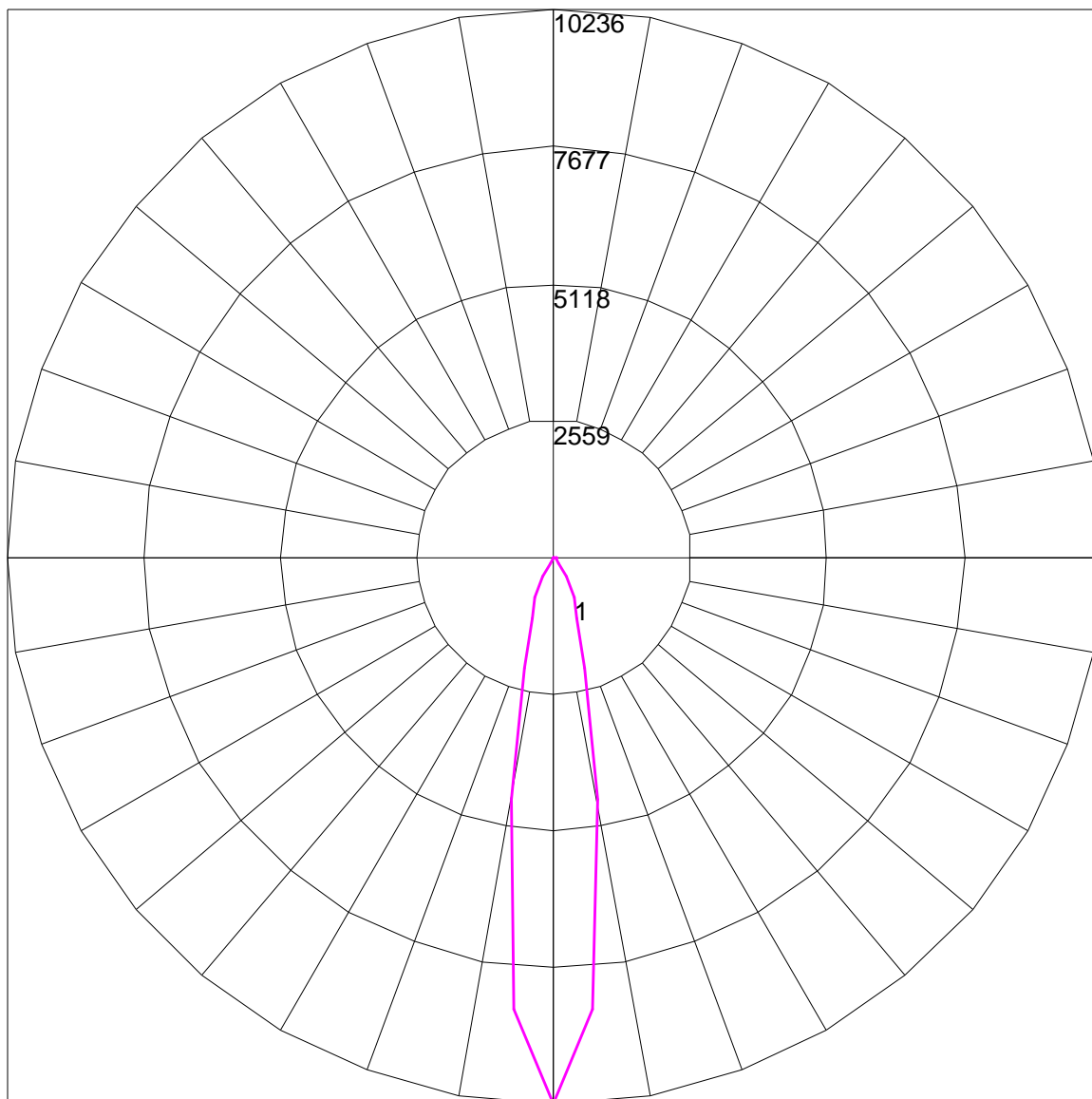
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	115	112	110	108	112	110	108	106	106	105	103	102	101	100	99	98	97	96
2	110	106	103	100	108	104	101	99	101	99	97	98	96	95	96	94	93	91
3	106	101	97	94	104	100	96	93	97	94	91	95	92	90	93	90	89	87
4	102	96	92	88	101	95	91	88	93	90	87	91	88	86	89	87	85	84
5	99	92	87	84	97	91	87	84	90	86	83	88	85	82	87	84	82	80
6	95	88	84	80	94	88	83	80	86	82	80	85	82	79	84	81	79	77
7	92	85	80	77	91	84	80	77	83	79	77	82	79	76	81	78	76	75
8	89	82	77	74	88	82	77	74	81	77	74	80	76	74	79	76	73	72
9	87	79	75	72	86	79	75	72	78	74	71	77	74	71	76	73	71	70
10	84	77	72	69	83	76	72	69	76	72	69	75	71	69	74	71	69	68

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POLAR GRAPH



Maximum Candela = 10235.579 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)