

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP\_00547\_8 ~ SS4MX-XT40LE1-SDD4X-XXK-MDMWSO.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] SP-00547.8  
[TESTLAB] VLS-245-981  
[MANUFAC] Spectrum Lighting  
[ISSUE DATE] 3/21/2017  
[UPDATE] 4/20/2017  
[LUMCAT] SS4MRx-XT40L-E1-SDD4x-xxK-MD-MW-SO  
[LUMINAIRE] Nom. 4" Square Downlight, Deep profile, Medium Beam  
[OTHER] Matte White Trim, Solite lens  
[OTHER] 29.7 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	2482
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	62
Total Luminaire Watts	39.9
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.50
Spacing Criterion (90-270)	0.50
Spacing Criterion (Diagonal)	0.54
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\_8 ~ SS4MX-XT40LE1-SDD4X-XXK-MDMWSO.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	39938	61051	40173
55	27315	38086	28964
65	17479	17658	17096
75	3881	4875	3058
85	5870	4847	3679

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP\_00547\_8 ~ SS4MX-XT40LE1-SDD4X-XXK-MDMWSO.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>	6248.200	6248.200	6248.200	6248.200	6248.200
<b>5</b>	5803.647	5837.780	5772.939	5830.036	5753.862
<b>10</b>	4503.619	4580.789	4471.473	4539.011	4457.473
<b>15</b>	3086.328	3154.828	3068.872	3102.460	3050.463
<b>20</b>	1986.009	2069.278	2029.202	2020.470	1961.124
<b>25</b>	1212.883	1336.074	1358.145	1293.127	1198.725
<b>30</b>	665.047	797.580	883.390	759.850	645.737
<b>35</b>	325.289	423.799	515.488	388.134	306.060
<b>40</b>	162.415	215.691	270.166	195.440	154.459
<b>45</b>	102.953	130.118	157.378	122.256	103.559
<b>50</b>	76.259	91.049	110.776	88.741	80.171
<b>55</b>	57.116	65.116	79.638	64.834	60.564
<b>60</b>	42.770	45.036	50.329	47.069	42.028
<b>65</b>	26.929	30.040	27.205	31.162	26.340
<b>70</b>	13.239	16.450	12.243	17.713	14.535
<b>75</b>	3.662	5.597	4.600	4.672	2.885
<b>80</b>	1.728	1.818	1.703	2.358	2.282
<b>85</b>	1.865	0.987	1.540	1.663	1.169
<b>90</b>	1.114	0.743	1.511	0.533	0.886

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Zone	Lumens	%Lamp	%Fixt
0-20	1387.29	N.A.	55.90
0-30	1997.9	N.A.	80.50
0-40	2275.93	N.A.	91.70
0-60	2443.93	N.A.	98.50
0-80	2480.12	N.A.	99.90
0-90	2481.69	N.A.	100.00
10-90	1968.32	N.A.	79.30
20-40	888.65	N.A.	35.80
20-50	995.81	N.A.	40.10
40-70	197.32	N.A.	8.00
60-80	36.19	N.A.	1.50
70-80	6.87	N.A.	0.30
80-90	1.57	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	2481.69	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	513.37
10-20	873.92
20-30	610.61
30-40	278.03
40-50	107.16
50-60	60.83
60-70	29.32
70-80	6.87
80-90	1.57
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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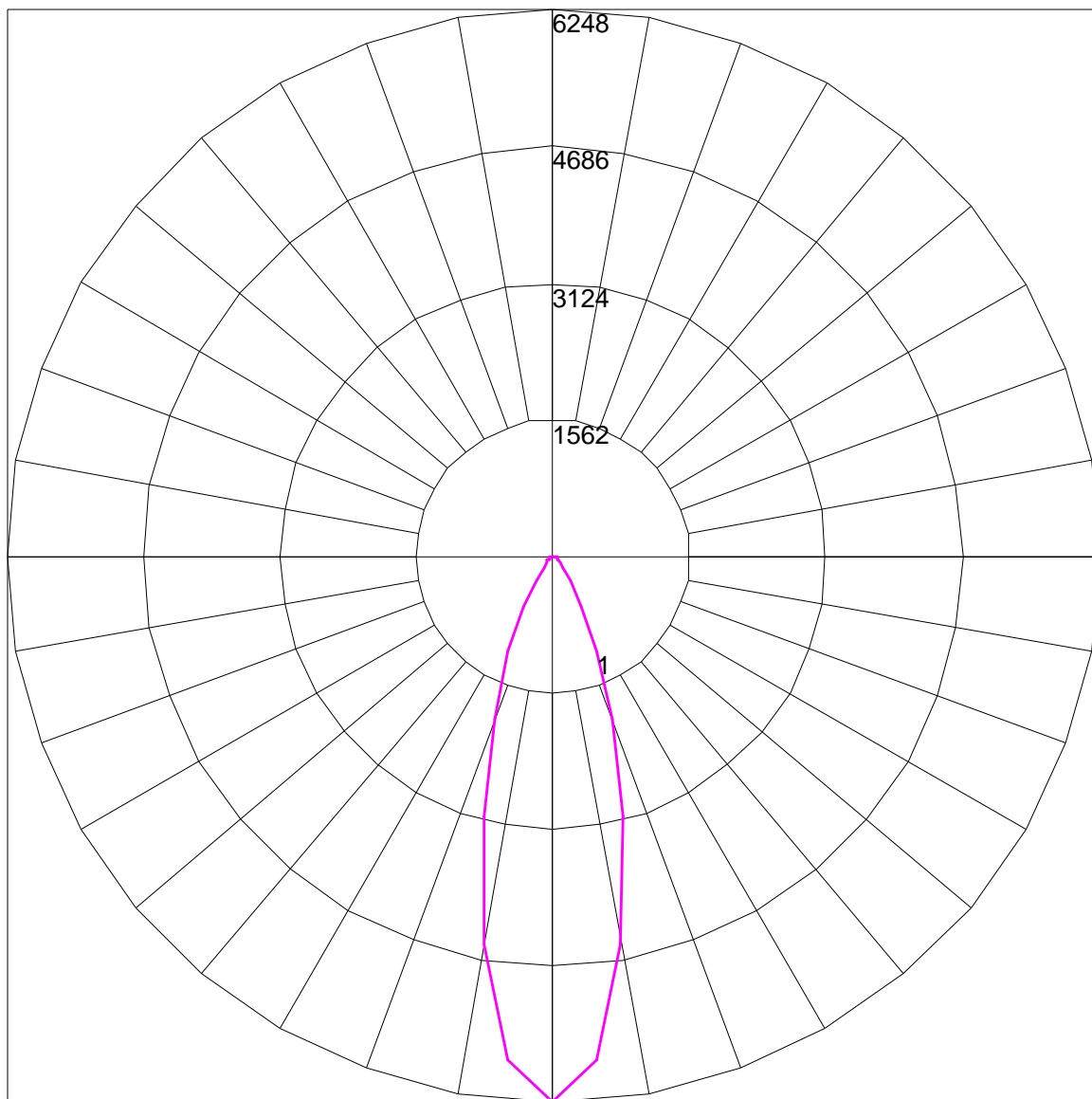
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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

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POLAR GRAPH



Maximum Candela = 6248.2 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)