

**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : SP\_00547 ~ SS4MX-XT20LE1-SDD4X-XXK-XNMWNL.IES**
**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] SP-00547  
 [TESTLAB] VLS-245-981  
 [MANUFAC] Spectrum Lighting  
 [ISSUEDATE] 3/21/2017  
 [UPDATE] 4/20/2017  
 [LUMCAT] SS4MRx-XT20L-E1-SDD4x-xxK-XN-MW-NL  
 [LUMINAIRE] Nom. 4" Square Downlight, Deep profile, Xtra Narrow Beam  
 [OTHER] Matte White Trim, No lens  
 [OTHER] 13.5 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	1782
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	48
Total Luminaire Watts	37.5
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.24
Spacing Criterion (90-270)	0.24
Spacing Criterion (Diagonal)	0.24
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 ~ SS4MX-XT20LE1-SDD4X-XXK-XNMWNL.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4198	6452	4472
55	6989	9343	6745
65	3895	3649	4184
75	2007	1228	1457
85	2609	4343	4029

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP\_00547 ~ SS4MX-XT20LE1-SDD4X-XXK-XNMWNL.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>	18705.609	18705.609	18705.609	18705.609	18705.609
<b>5</b>	12588.970	12828.970	12316.510	12799.430	12704.340
<b>10</b>	3337.804	3741.290	3306.368	3748.248	3407.446
<b>15</b>	872.230	957.088	912.205	953.966	886.308
<b>20</b>	630.645	643.364	645.241	647.912	637.703
<b>25</b>	565.185	594.112	592.679	599.604	576.444
<b>30</b>	304.512	449.188	554.091	431.947	314.930
<b>35</b>	70.234	149.133	403.845	133.824	74.940
<b>40</b>	21.200	26.174	125.017	27.222	20.944
<b>45</b>	10.821	14.070	16.633	14.316	11.529
<b>50</b>	7.945	10.668	15.886	11.596	5.930
<b>55</b>	14.615	15.107	19.536	17.096	14.104
<b>60</b>	17.643	17.675	17.499	18.574	15.500
<b>65</b>	6.001	8.880	5.622	8.598	6.446
<b>70</b>	2.279	2.364	2.539	2.958	1.441
<b>75</b>	1.894	1.754	1.159	2.490	1.375
<b>80</b>	0.979	1.112	1.084	1.177	1.739
<b>85</b>	0.829	1.083	1.380	1.811	1.280
<b>90</b>	1.070	0.526	1.122	0.550	1.075

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP\_00547 ~ SS4MX-XT20LE1-SDD4X-XXK-XNMWNL.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1348.27	N.A.	75.70
0-30	1607.26	N.A.	90.20
0-40	1739.45	N.A.	97.60
0-60	1770.33	N.A.	99.30
0-80	1780.74	N.A.	99.90
0-90	1782.01	N.A.	100.00
10-90	828.02	N.A.	46.50
20-40	391.18	N.A.	22.00
20-50	408.14	N.A.	22.90
40-70	39.41	N.A.	2.20
60-80	10.41	N.A.	0.60
70-80	1.88	N.A.	0.10
80-90	1.27	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	1782.01	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	953.99
10-20	394.28
20-30	258.99
30-40	132.19
40-50	16.95
50-60	13.93
60-70	8.53
70-80	1.88
80-90	1.27
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

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : SP\_00547 ~ SS4MX-XT20LE1-SDD4X-XXK-XNMWNL.IES

## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

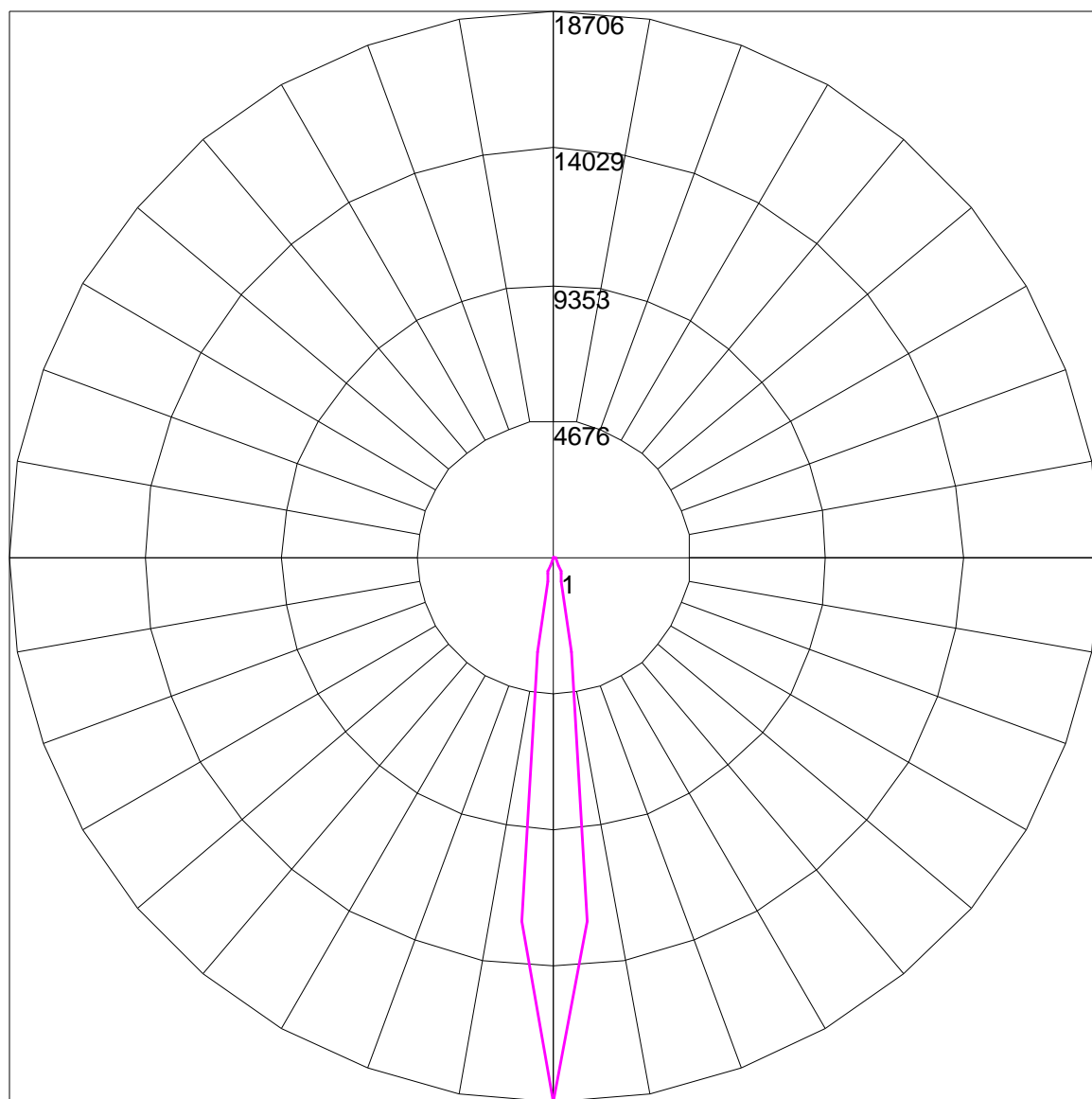
Effective Floor Cavity Reflectance 0.20

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	113	111	110	113	111	109	108	107	106	105	103	102	102	100	99	99	97
2	112	108	105	103	110	106	104	102	103	101	99	100	99	97	98	97	95	94
3	108	104	100	98	106	102	99	97	100	97	95	98	96	94	96	94	92	91
4	105	100	96	93	104	99	95	93	97	94	92	95	93	91	93	91	90	89
5	102	97	93	90	101	96	92	90	94	91	89	93	90	88	91	89	87	86
6	100	94	90	87	98	93	89	87	92	89	86	91	88	86	89	87	85	84
7	97	91	87	85	96	91	87	84	90	86	84	89	86	84	88	85	83	82
8	95	89	85	82	94	88	85	82	88	84	82	87	84	82	86	83	81	80
9	93	87	83	80	92	86	83	80	86	82	80	85	82	80	84	82	80	79
10	91	85	81	79	90	84	81	79	84	81	78	83	80	78	83	80	78	77

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : SP\_00547 ~ SS4MX-XT20LE1-SDD4X-XXK-XNMWNL.IES

## POLAR GRAPH



Maximum Candela = 18705.609 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)