



4" SQUARE DEEP DOWNLIGHT

4000 LUMENS MAX

UNIVERSAL HOUSINGS WITH INTERCHANGEABLE TRIMS

Spectrum's A Spec 4" recessed square downlight series features a 2" regressed trim and variety of options for accent and general illumination.

LUMENS AND WATTAGE CHART					
PART NUMBER	LUMENS	SOURCE LUMENS ¹	DELIVERED LUMENS ²	SYSTEM WATTS	LPW
SDD4F	XT10L	1000	738	11.1	66
SDD4F	XT13L	1300	994	15.0	66
SDD4F	XT20L	2000	1529	23.7	65
SDD4F	XT30L	3000	2294	34.6	66
SDD4F	XT40L	4000	2943	39.9	74

PROJECT: _____
 QUANTITY: _____ TYPE: _____



AVAILABLE HOUSING TYPES

SS4MO - New Construction / 40L Max



SS4MI - IC New Construction / 20L Max



SS4MR - Remodel Construction / 40L Max



FIXTURE HOUSING SPECIFICATION

SERIES	LUMENS ¹	DRIVER / DIMMING / VOLTAGE	OPTIONS
SS4MO New Construction	XT10L 1000 Lm	E Electronic Driver	H12⁶ 12" - 24" Expandable Bars
SS4MI⁷ IC New Construction	XT13L 1300 Lm	DS10 10%, 0-10V	H06 6" - 12" Expandable Bars
SS4MR Remodel Construction	XT20L 2000 Lm	DO10 1%, 0-10V	BH27 27" Solid Bars
	XT30L 3000 Lm	DS2W1 ELV/MLV, 120V	CB24 24" C-Channel Bars
	XT40L 4000 Lm	DLTE1 1% Lutron® 2-Wire Forward Phase, 120V	CH24 24" Chicago Bars
	XN BEAM	DL3E 1%, Lutron® EcoSystem® Fade	EM⁸ Integral Emergency Battery
	XN10L 1000 Lm	EL10 1%, eldoLED	EMRM Remote Emergency Battery Pack
	XN13L 1300 Lm	ED01 0.1%, eldoLED	EB Black Housing
		DMXS^{4,5} DMX Standard Configuration	PR2⁹ 2" Thick Ceiling Adaptor
		DMXC^{4,5} DMX Non-Standard Custom	
		BLU Bluetooth LE	
		AWN Athena Wireless Node (RF Module Only)	

- Die-cast aluminum trim with a wide variety of options.
- Deep regressed trim.
- Universal housing accepts all trim types, including N-Line trimless.
- Performance Xicato LED module for superior reliability and color consistency.
- Large selection of dimming and control options.
- Interchangeable optics and lenses.
- 5 year warranty on fixture and electronics.
- 10 year warranty on LED CCT.
- Bluetooth LE option.
- Sustainable fixture.
- Zhaga International Standard LED Module for future upgrades.
- 83CRI 2SDCM, 98CRI 1x2SDCM best in industry.

AVAILABLE TRIM / MODULE TYPES



TRIM / MODULE SPECIFICATION

TRIM	CCT	OPTICS	FINISH ¹³	OPTIONS
SDD4F Downlight SDA4F⁹ 30° Adjustable SDW4F^{9/10} Wall Wash	83 CRI	XN² 13° ND 21° MD 28° WD 35° XW 55°	MW⁴ Matte White MB Matte Black PT Platinum Silver BZ Bronze CH Charcoal OB Oil Rubbed Bronze AS Sapphire AM Malachite SN Sun Gold CO Copper Metallic GH Graphite CC¹⁵ Custom Color	NL No Lens SO¹⁶ Micro Prism Solite™ Lens LW¹⁷ Wall Wash Spread Lens GL Clear Glass Lens FG Frosted Glass Lens PR2⁹ 2" Thick Ceiling Adaptor WL Wet Location WF¹⁸ White Flange
	27K 2700K			
	30K 3000K			
	35K 3500K			
	40K 4000K			
	98 CRI ARTIST ¹¹			
	27HK 2700K			
	30HK 3000K			
	35HK 3500K			
	40HK 4000K			

EXAMPLE: SS4MOXT10LDS2W1/H12EM/SDD4F27KXWCHNL

NOTES:

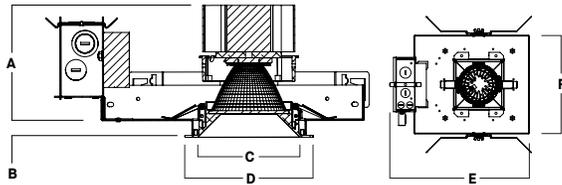
1 Nominal Source Lumens at Any CCT 2 Nominal Delivered Lumens 83 CRI at Any CCT with WD-MW-NL Trim 3 20L Max 4 Contact Factory 5 Not Available with IC 6 Standard Bar Hangers 7 Not Available in IC 8 Contact Factory 9 30L Max / No HK CCT 10 XW Optic Only / LW Lens Only 11 30L Max 12 9mm, 13L Max, All XN Draw More Watts Than Other Optics; See Photometry 13 Inside Trim And Flange Will Match Color Specified 14 Standard Finish 15 Contact Factory for Special Finishes 16 Standard Lens 17 Standard Lens for Wall Wash 18 Otherwise Flange Is Same Color As Interior Of Trim



HOUSING DIMENSIONS

SS4MO - NEW CONSTRUCTION / 40L MAX

Non-IC rated, thermally protected frame-in kit for new construction. Non-IC designation requires insulation must be minimum of 3" from housing.



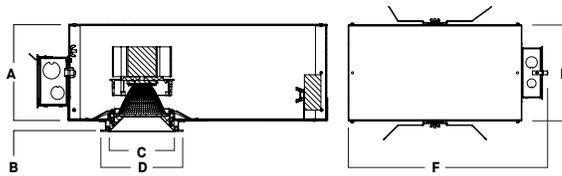
A	B	C	D	E	F
4.8	.625	4.3	5.4	13.1	9.5
121.9 mm	15.2 mm	109.2 mm	137.2 mm	332.7 mm	241.3 mm

Fixture Weight: 7 lbs

Ceiling Cutout: 5" Sq

SS4MI - IC NEW CONSTRUCTION / 20L MAX

IC rated frame-in kit for new construction with direct insulation contact and CCEA (Chicago Plenum) compatibility.



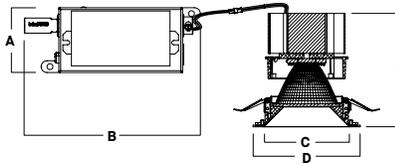
A	B	C	D	E	F
6.4	.625	4.3	5.4	9.5	10L-13L: 13.2
162.6 mm	15.9 mm	109.2 mm	137.2 mm	241.3 mm	20L: 19.2

Fixture Weight: 9 lbs

Ceiling Cutout: 5" Sq

SS4MR - REMODEL CONSTRUCTION / 40L MAX

Non-IC rated frame-in kit for existing construction. Non-IC designation requires insulation must be minimum of 3" from housing.



A	B	C	D	E
2.8	7.5	4.3	5.4	5.6
71.1 mm	190.5 mm	109.2 mm	137.2 mm	142.2 mm

Fixture Weight: 5 lbs

Ceiling Cutout: 5" Sq

FEATURES

FRAME-IN KIT

Precision Die-formed 20 gauge galvanized steel housing and integral junction box with (3) 5/8", (3) 7/8" and (2) 1 1/8" knockouts. Junction box capacity: 8 12AWG rated for 90 °C. Tool-less driver and junction box access for ease of maintenance. Posi-loc trim retention springs for 5/8"-1" ceiling thickness. Use PR2 for up to 2" thick ceiling. For thicker ceilings consult factory.

MOUNTING

A variety of mounting bars are available (excluding remodel). Ceiling materials must be rigid to support luminaire frame.

DRIVER

Several constant current dimming drivers are available. Power factor >.9 typical, 50/60Hz, 350-1050mA.

TRIM

Self-flanged, one-piece, die-cast aluminum finished in a variety of powdercoat options. Inside trim and flange are finished in same color unless otherwise specified (WF= White Flange). For trimless options see N-Line.

REMODEL

Features tethered power supply and junction box with sheathed wire.

LUMEN OUTPUT

XN narrow optic restricted to 1300 lumens max. All other optics and kelvins maintain 1000-4000 lumens range.

LED

Zhaga compatible high performance Xicato module. Proprietary phosphor technology provides consistent and stable color with CCT control of +/- 100K over life of light engine.

EMERGENCY

Integral or remote 7W emergency battery options are available. Operates for 90 minutes and produces nominal 450 lumens.

DMX

See [DMX Connections and Settings Guide](#) for default configurations. Contact quotes@speclight.com or your local representative for custom solutions.

BLUETOOTH

Integral Bluetooth LE option is available for dimming to .1%, grouping, remote access, electrical feedback and beacon technology.

FUSING

Integral optional fast blow fuse with fuse holder.

COLOR VARIATION

Standard CRI (83) within 2-step MacAdam Ellipse. High CRI (98) within 1x2-step MacAdam Ellipse.

LISTINGS

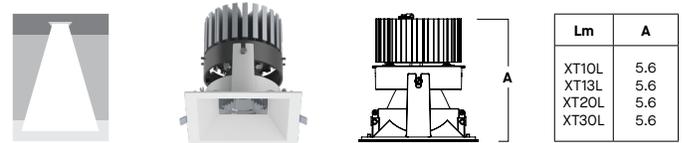
ETL Certified to meet US and Canadian Standards. Manufactured and tested to UL standard No. 1598/8750. BAA compliant. Wet location (WL), City of Chicago Environmental Air (CCEA), and Insulated Ceiling (IC) options available.

WARRANTY

Fixtures, LEDs and drivers carry 5 year Spectrum warranty, as well as individual OEM warranty. Warranty is 5 years from date of manufacturing. LED system rated for operation in an ambient temperatures up to 25 °C.

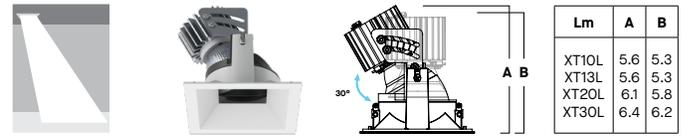
TRIM / MODULE DATA

SDD4F - DOWNLIGHT MODULE



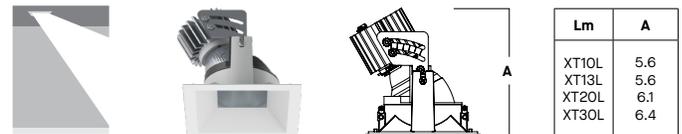
Lm	A
XT10L	5.6
XT13L	5.6
XT20L	5.6
XT30L	5.6

SDA4F - 30° ADJUSTABLE MODULE



Lm	A	B
XT10L	5.6	5.3
XT13L	5.6	5.3
XT20L	6.1	5.8
XT30L	6.4	6.2

SDW4F - WALL WASH MODULE

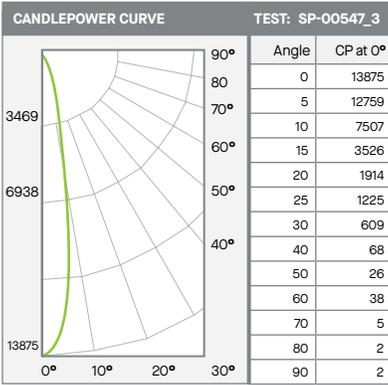


Lm	A
XT10L	5.6
XT13L	5.6
XT20L	6.1
XT30L	6.4

PHOTOMETRIC DATA - 4" SQUARE DEEP

SS4Mx-XT40L-E1-SDD4x-xxK-ND-MW-NL

40L NARROW - 83 CRI



Distance	Lumens	%
0-10	947	34%
0-20	1894	68%
0-30	2449	88%
0-40	2682	96%
0-60	2756	99%
0-80	2782	100%
0-90	2783	100%
Total Lumens	2783	100%

Mounting Height*	FC at Center	Diameter of Beam**	FC at Beam**
5.5'	459	1.6'	224
6.5'	328	1.9'	161
7.5'	247	2.2'	121
8.5'	192	2.5'	94
10'	139	3.0'	68
12'	96	3.5'	47
14'	71	4.1'	35
16'	54	4.7'	27

Ceiling Height	Fixture Spacing	RCR 8		RCR 10	
		FC*	W/Sq. Ft.	FC*	W/Sq. Ft.
8'	2.5' **	92	1.59	67	1.25
12'	4' ***	61	1.06	60	1.11
16'	5' **	52	0.9	51	0.93

Delivered Illuminance Rating: (DIR) 57 FC per W/Sq. Ft. 54 FC per W/Sq. Ft.

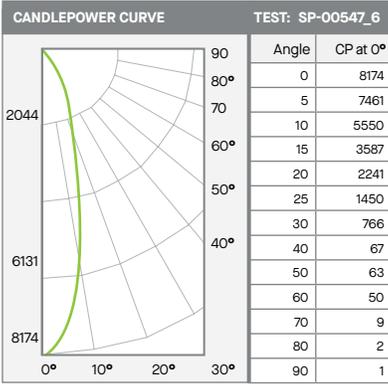
Square Rooms used for Multiple Units:
 - RCR 8: Length & Width = Ceiling Ht. x 1.25
 - RCR 10: Length & Width = Ceiling Ht. x 1.0
 * Average Footcandles at floor
 ** Exceeds spacing criteria by 4%
 *** Exceeds spacing criteria by 11%

Delivered Lumens: 2783 CP @ 0° (Nadir): 13875
 Luminaire Watts: 39.9 CRI: 83
 LER: 70

Beam Angle: 16.80,38
 Spacing Ratio: 0.38

FC Multipliers: 10L x 0.322, 13L x 0.433, 20L x 0.667
 W/Sq. Ft. Multipliers: 10L x 0.320, 13L x 0.433, 20L x 0.685

SS4Mx-XT40L-E1-SDD4x-xxK-MD-MW-NL



Distance	Lumens	%
0-10	654	23%
0-20	1678	59%
0-30	2382	84%
0-40	2675	94%
0-60	2797	99%
0-80	2831	100%
0-90	2833	100%
Total Lumens	2833	100%

Mounting Height*	FC at Center	Diameter of Beam**	FC at Beam**
5.5'	94	2.7'	44
6.5'	67	3.1'	32
7.5'	50	3.6'	24
8.5'	39	4.1'	19
10'	28	4.8'	13
12'	20	5.8'	9
14'	14	6.8'	7
16'	11	7.7'	5

Ceiling Height	Fixture Spacing	RCR 4		RCR 6	
		FC*	W/Sq. Ft.	FC*	W/Sq. Ft.
8'	4' **	106	1.59	82	1.36
12'	6' **	59	0.89	54	0.9
16'	8' **	42	0.62	31	0.51

Delivered Illuminance Rating: (DIR) 67 FC per W/Sq. Ft. 60 FC per W/Sq. Ft.

Square Rooms used for Multiple Units:
 - RCR 4: Length & Width = Ceiling Ht. x 2.5
 - RCR 6: Length & Width = Ceiling Ht. x 1.66
 * Average Footcandles at floor
 ** Exceeds spacing criteria by 6%

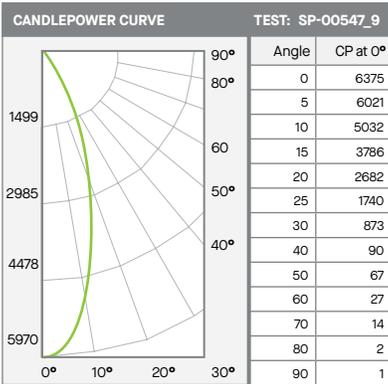
Delivered Lumens: 2833 CP @ 0° (Nadir): 8174
 Luminaire Watts: 39.9 CRI: 83
 LER: 71

Beam Angle: 27.2°
 Spacing Ratio: 0.46

FC Multipliers: 10L x 0.322, 13L x 0.433, 20L x 0.667
 W/Sq. Ft. Multipliers: 10L x 0.320, 13L x 0.433, 20L x 0.685

SS4Mx-XT40L-E1-SDD4x-xxK-WD-MW-NL

40L WIDE - 83 CRI



Distance	Lumens	%
0-10	547	19%
0-20	1632	55%
0-30	2479	84%
0-40	2802	95%
0-60	2920	99%
0-80	2942	100%
0-90	2943	100%
Total Lumens	2943	100%

Mounting Height*	FC at Center	Diameter of Beam**	FC at Beam**
5.5'	211	3.5'	96
6.5'	151	4.1'	68
7.5'	113	4.8'	51
8.5'	88	5.4'	40
10'	64	6.4'	29
12'	44	7.7'	20
14'	33	8.9'	15
16'	25	10.2'	11

Ceiling Height	Fixture Spacing	RCR 2		RCR 4	
		FC*	W/Sq. Ft.	FC*	W/Sq. Ft.
8'	5' **	94	1.22	82	1.2
12'	7' ***	55	0.71	49	0.71
16'	9' ****	31	0.4	27	0.4

Delivered Illuminance Rating: (DIR) 77 FC per W/Sq. Ft. 68 FC per W/Sq. Ft.

Square Rooms used for Multiple Units:
 - RCR 2: Length & Width = Ceiling Ht. x 5.0
 - RCR 4: Length & Width = Ceiling Ht. x 2.5
 * Average Footcandles at floor
 ** Exceeds spacing criteria by approximately 10%
 *** Exceeds spacing criteria by approximately 2%

Delivered Lumens: 2943 CP @ 0° (Nadir): 6375
 Luminaire Watts: 39.9 CRI: 83
 LER:

Beam Angle: 35.4°
 Spacing Ratio: 0.58

FC Multipliers: 10L x 0.322, 13L x 0.433, 20L x 0.667
 W/Sq. Ft. Multipliers: 10L x 0.320, 13L x 0.433, 20L x 0.685

