



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.

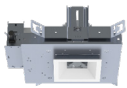
LUMENS AND WATTAGE CHART					
PART NUMBER	LUMENS	SOURCE LUMENS ¹	DELIVERED LUMENS ²	SYSTEM WATTS	LPW
SDD4F	XT10L	1000	738	11.1	66
SDD4F	XT13L	1300	994	15.0	66
SDD4F	XT20L	2000	1529	23.7	65
SDD4F	XT30L	3000	2294	34.6	66
SDD4F	XT40L	4000	2943	39.9	74

PROJECT: _____
 TYPE: _____

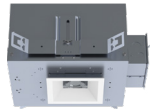


AVAILABLE HOUSING TYPES

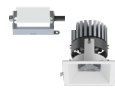
SS4MO - New Construction / 40L Max



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	1	120V
SS4MI ⁸	IC New Construction	XT13L	1300 Lm	DS10	10%, 0-10V	2	277V
SS4MR	Remodel Construction	XT20L	2000 Lm	DO10	1%, 0-10V		
		XT30L	3000 Lm	DS2W1	ELV/MLV, 120V		
		XT40L	4000 Lm	DLTE1	1% Lutron® 2-Wire Forward Phase, 120V		
		XN BEAM		DL3E	1%, Lutron® EcoSystem® Fade		
		XN10L	1000 Lm	EL10	1%, eldoLED		
		XN13L	1300 Lm	ED01	0.1%, eldoLED		
				DMXS ^{4,5}	DMX Standard Configuration		
				DMXC ^{4,5}	DMX Non-Standard Custom		
				BLU	Bluetooth LE		
						H12 ⁶	12" - 24" Expandable Bars
						H06	6" - 12" Expandable Bars
						BH27	27" Solid Bars
						CB24	24" C-Channel Bars
						CH24	24" Chicago Bars
						EM ⁷	Integral Emergency Battery
						EMRM	Remote Emergency Battery Pack
						EB	Black Housing
						PR2 ⁸	2" Thick Ceiling Adaptor

- 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	83 CRI		XN ¹²	13°	MW ¹⁴	Matte White	NL	No Lens
SDA4F ⁹	30° Adjustable	27K	2700K	ND	21°	MB	Matte Black	SO ¹⁶	Micro Prism Solite™ Lens
SDW4F ¹⁰	Wall Wash	30K	3000K	MD	28°	PT	Platinum Silver	LW ¹⁷	Wall Wash Spread Lens
		35K	3500K	WD	35°	BZ	Bronze	GL	Clear Glass Lens
		40K	4000K	XW	55°	CH	Charcoal	FG	Frosted Glass Lens
		98 CRI ARTIST ¹¹				OB	Oil Rubbed Bronze	PR2 ⁸	2" Thick Ceiling Adaptor
		27HK	2700K			AS	Sapphire	WL	Wet Location
		30HK	3000K			AM	Malachite	WF ¹⁸	White Flange
		35HK	3500K			SN	Sun Gold		
		40HK	4000K			CO	Copper Metallic		
						GH	Graphite		
						CC ¹⁵	Custom Color		

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

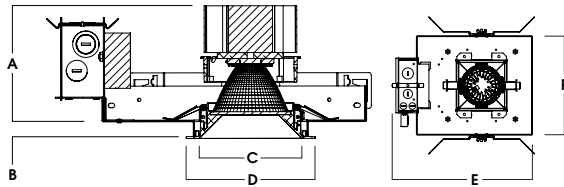
Dimensions and values shown are nominal. Spectrum Lighting continually works to improve products and reserves the right to make changes which may alter the performance or appearance of products.



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.



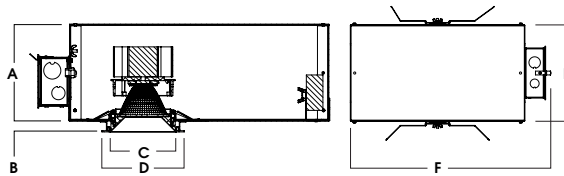
A	B	C	D	E	F
4.8	.625	4.3	5.4	13.1	9.5
121.9 mm	15.2 mm	109.2 mm	137.2 mm	332.7 mm	241.3 mm

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.



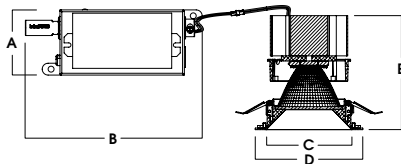
A	B	C	D	E	F
6.4	.625	4.3	5.4	9.5	10L-13L: 13.2
162.6 mm	15.9 mm	109.2 mm	137.2 mm	241.3 mm	20L: 19.2

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. Post-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

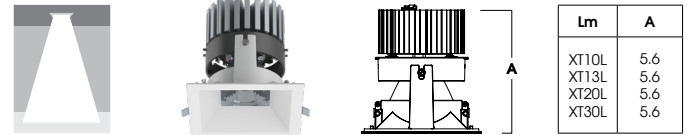
ETL Certified to meet US and Canadian Standards. Manufactured and tested to UL standard No. 1598/8750. BAA compliant. Wet location (WL), City of Chicago Environmental Air (CCEA), and Insulated Ceiling (IC) options available.

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.

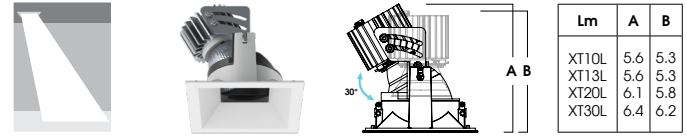
TRIM / MODULE DATA

SDD4F - DOWNLIGHT MODULE



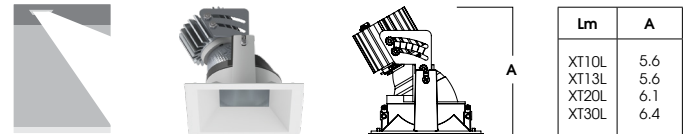
Lm	A
XT10L	5.6
XT13L	5.6
XT20L	5.6
XT30L	5.6

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

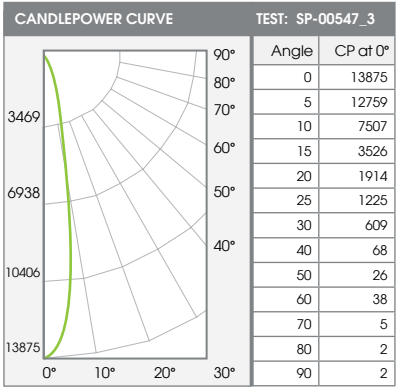


Lm	A
XT10L	5.6
XT13L	5.6
XT20L	6.1
XT30L	6.4



PHOTOMETRIC DATA - 4" SQUARE DEEP

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



ZONAL 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%

40L NARROW - 83 CRI

SINGLE UNIT: PERFORMANCE INITIAL FOOTCANDLES AND BEAM ANGLE DIAMETERS			
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

* From aperture to horizontal surface below.
** At IESNA defined Beam Angle, to 50% Max. CP.

MULTIPLE UNITS: PERFORMANCE 80/50/20% REFLECTANCES INITIAL FOOTCANDLES AND WATTS PER SQUARE FOOT					
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

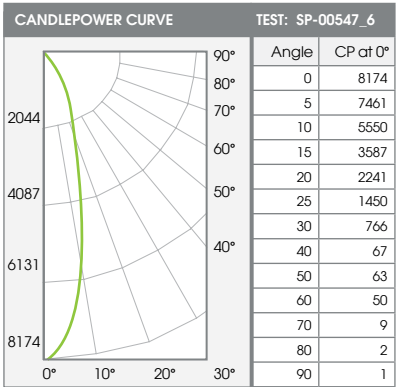
Delivered Illuminance Rating: (DIR) 57 FC per W/Sq. Ft. 54 FC per W/Sq. Ft.

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 Beam Angle: 16.8°
Luminaire Watts: 39.9 CRI: 83 Spacing Ratio: 0.38
LER: 70

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



ZONAL 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%

40L MEDIUM - 83 CRI

SINGLE UNIT: PERFORMANCE INITIAL FOOTCANDLES AND BEAM ANGLE DIAMETERS			
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

* From aperture to horizontal surface below.
** At IESNA defined Beam Angle, to 50% Max. CP.

MULTIPLE UNITS: PERFORMANCE 80/50/20% REFLECTANCES INITIAL FOOTCANDLES AND WATTS PER SQUARE FOOT					
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

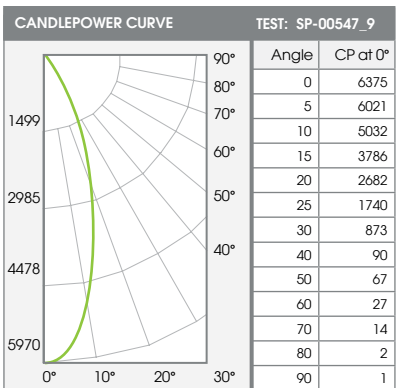
Delivered Illuminance Rating: (DIR) 67 FC per W/Sq. Ft. 60 FC per W/Sq. Ft.

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 Beam Angle: 27.2°
Luminaire Watts: 39.9 CRI: 83 Spacing Ratio: 0.46
LER: 71

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



ZONAL 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%

40L WIDE - 83 CRI

SINGLE UNIT: PERFORMANCE INITIAL FOOTCANDLES AND BEAM ANGLE DIAMETERS			
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

* From aperture to horizontal surface below.
** At IESNA defined Beam Angle, to 50% Max. CP.

MULTIPLE UNITS: PERFORMANCE 80/50/20% REFLECTANCES INITIAL FOOTCANDLES AND WATTS PER SQUARE FOOT					
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%
**** Exceeds spacing criteria by approximately 2%

Delivered Lumens: 2943 CP @ 0° (Nadir): 6375 Beam Angle: 35.4°
Luminaire Watts: 39.9 CRI: 83 Spacing Ratio: 0.58
LER: 74

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

