



3" SQUARE DEEP DOWNLIGHT

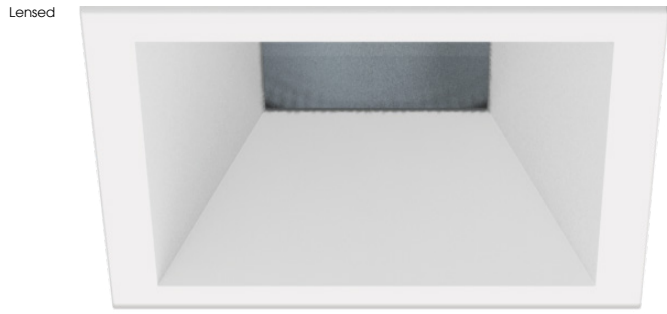
3000 LUMENS MAX

UNIVERSAL HOUSINGS WITH INTERCHANGEABLE TRIMS

Spectrum's A Spec 3" recessed square downlight series features a 2" regressed trim and variety of options for accent and general illumination.

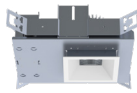
LUMENS AND WATTAGE CHART					
PART NUMBER	LUMENS	SOURCE LUMENS ¹	DELIVERED LUMENS ²	SYSTEM WATTS	LPW
SDD3F	XT10L	1000	807	11.1	73
SDD3F	XT13L	1300	1087	15	72
SDD3F	XT20L	2000	1672	23.7	71
SDD3F	XT30L	3000	2509	34.6	73

PROJECT: _____
 TYPE: _____



AVAILABLE HOUSING TYPES

SS3DMO - New Construction / 30L Max



SS3DMI - IC New Construction / 20L Max



SS3DMR - Remodel Construction / 30L Max



FIXTURE HOUSING SPECIFICATION

SERIES	LUMENS ¹	DRIVER / DIMMING / VOLTAGE	OPTIONS
SS3DMO New Construction	XT10L 1000 Lm	E Electronic Driver 10%, 0-10V DS10 1%, 0-10V DO10 ELV/MLV, 120V DS2W1 1% Lutron® 2-Wire Forward Phase, 120V DLTE1 1% Lutron® EcoSystem® Fade DL3E 1%, eldoLED EL10 0.1%, eldoLED ED01 DMX Standard Configuration DMXS ⁵⁷ DMX Non-Standard Custom DMXC ⁵⁷ Bluetooth LE BLU	H12 12" - 24" Expandable Bars H06 6" - 12" Expandable Bars BH27 27" Solid Bars CB24 24" C-Channel Bars CH24 24" Chicago Bars FS Fusing EM Integral Emergency Battery EMRM Remote Emergency Battery Pack EB Black Housing PR2 2" Thick Ceiling Adaptor
SS3DMI IC New Construction	XT13L 1300 Lm		
SS3DMR Remodel Construction	XT20L ^{4/5} 2000 Lm		
	XT30L ^{4/5} 3000 Lm		
	XN BEAM		
	XN10L 1000 Lm	1 120V	
	XN13L ⁵ 1300 Lm	2 277V	

- 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.
- See SS3 for 1/2" shallow regress trim and SS3S for super shallow plenum.
- 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 ¹¹	OPTIONS		
SDD3F Downlight	83 CRI	XN ¹⁰ 13°	MW ¹² Matte White	NL No Lens		
SDA3F ³ 35° Adjustable					ND 26°	SO Micro Prism Solite™ Lens
SDI3F 15° Adjustable					MD 41°	LW ¹⁴ Wall Wash Spread Lens
SDW3F ² Wall Wash					WD 49°	GL Clear Glass Lens
					XW 62°	FG Frosted Glass Lens
	98 CRI ARTIST ⁴		AS Sapphire	PR2 ⁵ 2" Thick Ceiling Adaptor		
	27HK 2700K		OB Oil Rubbed Bronze	WL Wet Location		
	30HK 3000K		AM Malachite	WF ¹⁵ White Flange		
	35HK 3500K		SN Sun Gold			
	40HK 4000K		CO Copper Metallic			
			GH Graphite			
			CC ¹³ Custom Color			

EXAMPLE: SS3DMOXT10LDS2W1/H12/SDA3F27KMDMWNL

NOTES:

1 Nominal Source Lumens at Any CCT 2 Nominal Delivered Lumens 83 CRI at Any CCT with MD-MW-GL Trim 3 20L Max 4 For 20L HK and 30L Options Install Fixtures in Accordance with the Following Marked Spacing: (a) Center To Center of Adjacent Luminaires: 600mm (24in); (b) Top of Luminaire to overhead Building Member: 39mm (1.5in); (c) Luminaire Center to side Building Member: 300mm (12in) 5 Not Available with HK 6 Contact Factory 7 Not Available with IC 8 ND and XW Optic Not Available 9 XW Optic Only / LW Lens Only 10 9mm, 13L Max. All XN Draw More Watts Than Other Optics; See Photometry 11 Inside Trim And Flange Will Match Color Specified 12 Standard Finish 13 Contact Factory for Special Finishes 14 Standard Lens for Wall Wash 15 Otherwise Flange Is Same Color As Interior Of Trim

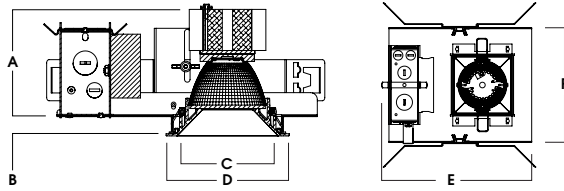
Dimensions and values shown are nominal. Spectrum Lighting continually works to improve products and reserves the right to make changes which may alter the performance or appearance of products.



HOUSING DIMENSIONS

SS3DMO - NEW CONSTRUCTION / 30L MAX

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



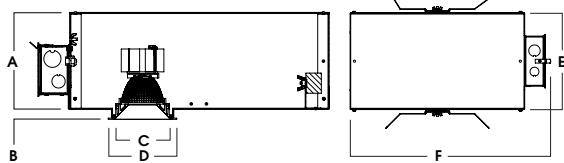
LED	A	B	C	D	E	F
XT10L	4.0	.625	3.7	4.5	9.6	7.6
XT13L	4.0	.625	3.7	4.5	9.6	7.6
XT20L	4.5	.625	3.7	4.5	9.6	7.6
XT30L	4.8	.625	3.7	4.5	9.6	7.6

Fixture Weight: 4.0 lbs

Ceiling Cutout: 4.12 Sq

SS3DMI - IC NEW CONSTRUCTION / 20L MAX

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



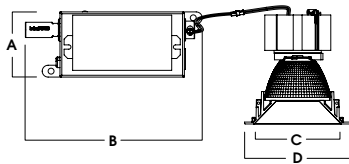
A	B	C	D	E	F
6.4	.625	3.7	4.5	9.5	10L-13L: 13.2
162.6 mm	15.9 mm	94.0 mm	114.3 mm	241.3 mm	20L: 19.2

Fixture Weight: 5.0 lbs

Ceiling Cutout: 4.12 Sq

SS3DMR - REMODEL CONSTRUCTION / 30L 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
2.8	7.5	3.7	4.5
71.1 mm	190.5 mm	94.0 mm	114.3 mm

Fixture Weight: 2.0 lbs

Ceiling Cutout: 4" 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 1000-3000 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

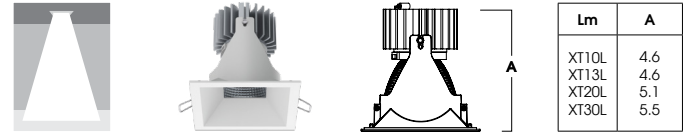
ETL Certified to meet US and Canadian Standards. Manufactured and tested to UL standard No. 1598/8750. BAA compliant. Wet location (WL), City of Chicago Environmental Air (CCEA), and Insulated Ceiling (IC) options available.

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.

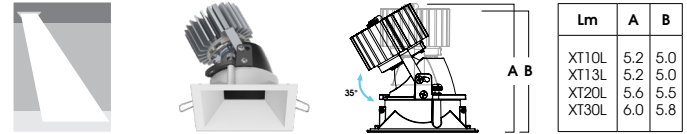
TRIM / MODULE DATA

SDD3F - DOWNLIGHT MODULE



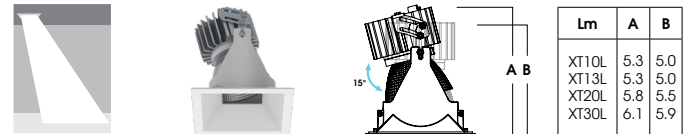
Lm	A
XT10L	4.6
XT13L	4.6
XT20L	5.1
XT30L	5.5

SDA3F - 35° ADJUSTABLE MODULE



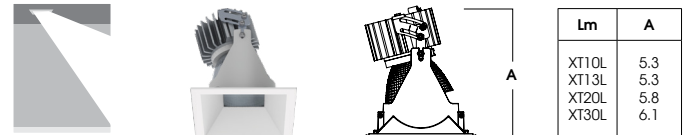
Lm	A	B
XT10L	5.2	5.0
XT13L	5.2	5.0
XT20L	5.6	5.5
XT30L	6.0	5.8

SDI3F - 15° ADJUSTABLE MODULE



Lm	A	B
XT10L	5.3	5.0
XT13L	5.3	5.0
XT20L	5.8	5.5
XT30L	6.1	5.9

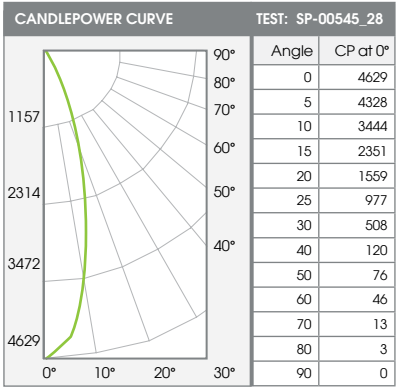
SDW3F - WALL WASH MODULE



Lm	A
XT10L	5.3
XT13L	5.3
XT20L	5.8
XT30L	6.1

PHOTOMETRIC DATA - 3" SQUARE DEEP

SS3DMx-XT30L-E1-SDD3x-xxK-ND-MW-SO



ZONAL LUMENS		
0-10	395	19%
0-20	1099	53%
0-30	1616	78%
0-40	1858	90%
0-60	2022	98%
0-80	2067	100%
0-90	2068	100%
Total Lumens	2068	100%

30L 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'	153	3.0'	71
6.5'	110	3.5'	51
7.5'	82	4.1'	38
8.5'	64	4.6'	30
10'	46	5.5'	22
12'	32	6.5'	15
14'	24	7.6'	11
16'	18	8.7'	8

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

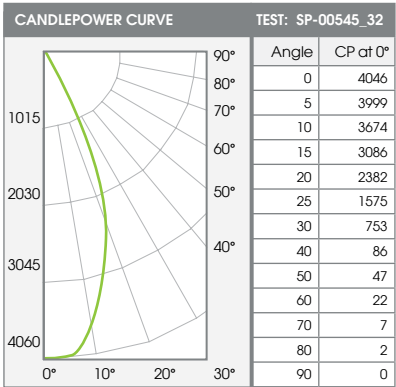
MULTIPLE UNITS: PERFORMANCE 80/50/20% REFLECTANCES INITIAL FOOTCANDLES AND WATTS PER SQUARE FOOT					
Ceiling Height	Fixture Spacing	RCR 8		RCR 10	
		FC*	W/Sq. Ft.	FC*	W/Sq. Ft.
8'	2.5'	61	1.38	44	1.08
12'	4'	41	0.92	39	0.96
16'	5'	35	0.78	33	0.81
Delivered Illuminance Rating: (DIR)		44 FC per W/Sq. Ft.		41 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

Delivered Lumens: 2068 CP @ 0° (Nadir): 4629 Beam Angle: 30.5°
Luminaire Watts: 34.6 CRI: 83 Spacing Ratio: 0.52

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

SS3DMx-XT30L-E1-SDD3x-xxK-MD-MW-GL



ZONAL LUMENS		
0-10	377	15%
0-20	1269	51%
0-30	2077	83%
0-40	2380	95%
0-60	2484	99%
0-80	2507	100%
0-90	2509	100%
Total Lumens	2509	100%

30L 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'	134	4.5'	57
6.5'	96	5.3'	41
7.5'	72	6.2'	31
8.5'	56	7.0'	24
10'	40	8.2'	17
12'	28	9.9'	12
14'	21	11.5'	9
16'	16	13.2'	7

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

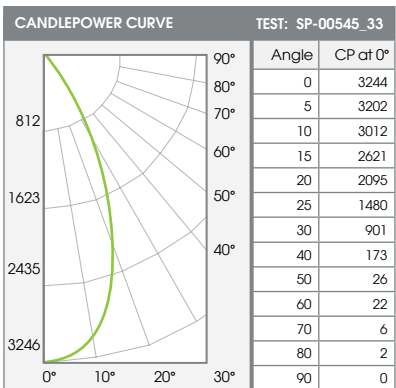
MULTIPLE UNITS: PERFORMANCE 80/50/20% REFLECTANCES INITIAL FOOTCANDLES AND WATTS PER SQUARE FOOT					
Ceiling Height	Fixture Spacing	RCR 4		RCR 6	
		FC*	W/Sq. Ft.	FC*	W/Sq. Ft.
8'	5'	62	0.78	56	0.79
12'	8'	49	0.62	56	0.78
16'	10'	27	0.35	32	0.44
Delivered Illuminance Rating: (DIR)		66 FC per W/Sq. Ft.		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

Delivered Lumens: 2509 CP @ 0° (Nadir): 4046 Beam Angle: 44.7°
Luminaire Watts: 34.6 CRI: 83 Spacing Ratio: 0.72

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

SS3DMx-XT30L-E1-SDD3x-xxK-WD-MW-NL



ZONAL LUMENS		
0-10	303	13%
0-20	1059	44%
0-30	1826	77%
0-40	2245	94%
0-60	2361	99%
0-80	2382	100%
0-90	2383	100%
Total Lumens	2383	100%

30L 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'	107	4.9'	45
6.5'	77	5.8'	32
7.5'	58	6.7'	24
8.5'	45	7.6'	19
10'	32	9.0'	13
12'	23	10.8'	9
14'	17	12.6'	7
16'	13	14.4'	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 2		RCR 4	
		FC*	W/Sq. Ft.	FC*	W/Sq. Ft.
8'	6'	56	0.78	49	0.78
12'	9'	25	0.35	22	0.35
16'	12'	14	0.20	12	0.20
Delivered Illuminance Rating: (DIR)		82 FC per W/Sq. Ft.		73 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

Delivered Lumens: 2383 CP @ 0° (Nadir): 3244 Beam Angle: 48.4°
Luminaire Watts: 34.6 CRI: 83 Spacing Ratio: 0.78

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

