



3" SQUARE DEEP DOWNLIGHT

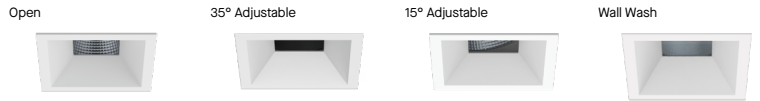
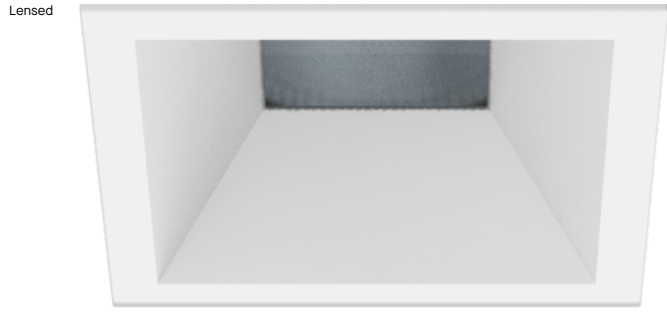
3000 LUMENS MAX

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: _____
 QUANTITY: _____ TYPE: _____



AVAILABLE HOUSING TYPES

SS3DMO - New Construction / 20L 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 SS3DMI IC New Construction SS3DMR Remodel Construction	XT10L 1000 Lm XT13L 1300 Lm XT20L 2000 Lm XT30L ¹⁵ 3000 Lm XN BEAM XN10L 1000 Lm XN13L 1300 Lm	E Electronic Driver DS10 10%, 0-10V DO10 1%, 0-10V DS2W1 ELV/MLV, 120V DLTE1 1% Lutron® 2-Wire Forward Phase, 120V DL3E 1%, Lutron® EcoSystem® Fade EL10 1%, eldoLED EDO1 0.1%, eldoLED DMXS ^{6,7} DMX Standard Configuration DMXC ^{6,7} DMX Non-Standard Custom BLU Bluetooth LE AWN Athena Wireless Node (RF Module Only)	1 120V 2 277V 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 ⁹ 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.
- 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 SDA3F ³ 35° Adjustable SDI3F 15° Adjustable SDW3F ³ Wall Wash	83 CRI	XN ¹³ 13° ND 26° MD 41° WD 49° XW 62°	MW ¹² 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 CC ¹³ Custom Color	NL No Lens SO Micro Prism Solite™ Lens LW ¹⁴ Wall Wash Spread Lens GL Clear Glass Lens FG Frosted Glass Lens PR2 ⁹ 2" Thick Ceiling Adaptor WL Wet Location WF ¹⁵ White Flange
	98 CRI ARTIST ⁴			
	27K 2700K 30K 3000K 35K 3500K 40K 4000K			
	27HK 2700K 30HK 3000K 35HK 3500K 40HK 4000K			

EXAMPLE: SS3DMOXT10LDS2W1/H12/SDA3F27KMDMWNL

NOTES:

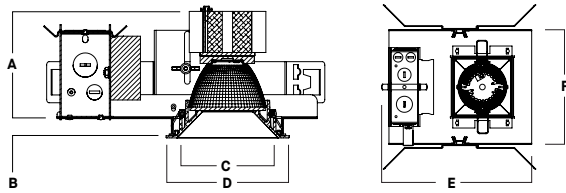
¹ Nominal Source Lumens at Any CCT ² Nominal Delivered Lumens 83 CRI at Any CCT with MD-MW-GL Trim ³ 20L Max ⁴ For 20L HK and 30L Options Install Fixtures in Accordance with the Following Marked Spacing: (a) Center To Center of Adjacent Luminaires: 600mm (24in); (b) Top of Luminaire to overhead Building 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 Inset 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



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.



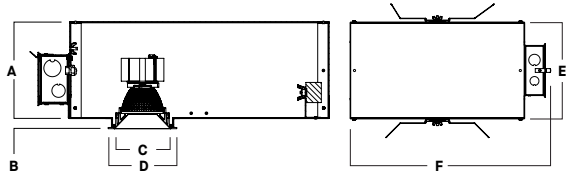
LED	A	B	C	D	E	F
XT10L	4.0	.625	3.7	4.5	9.6	7.6
XT13L	4.0	.625	3.7	4.5	9.6	7.6
XT20L	4.5	.625	3.7	4.5	9.6	7.6
XT30L	4.8	.625	3.7	4.5	9.6	7.6

Fixture Weight: 4.0 lbs

Ceiling Cutout: 4.12 x 4.12

SS3DMI - IC NEW CONSTRUCTION / 20L MAX

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

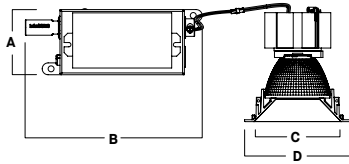


A	B	C	D	E	F
6.4	.625	3.7	4.5	9.5	10L-13L: 13.2 20L: 19.2
162.6 mm	15.9 mm	94.0 mm	114.3 mm	241.3 mm	

Ceiling Cutout: 4.12 x 4.12

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" x 4"

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 1000-3000 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

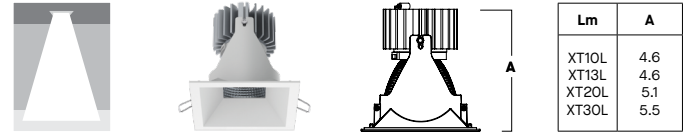
ETL Certified to meet US and Canadian Standards. Manufactured and tested to UL standard No. 1598/8750. BAA compliant. Wet location (WL), City of Chicago Environmental Air (CCEA), and Insulated Ceiling (IC) options available.

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.

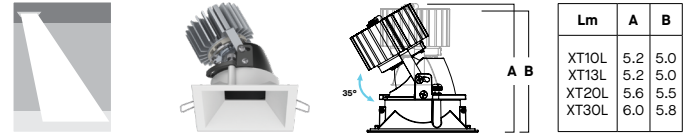
TRIM / MODULE DATA

SDD3F - DOWNLIGHT MODULE



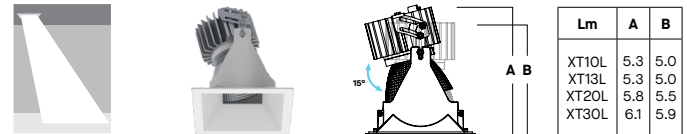
Lm	A
XT10L	4.6
XT13L	4.6
XT20L	5.1
XT30L	5.5

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



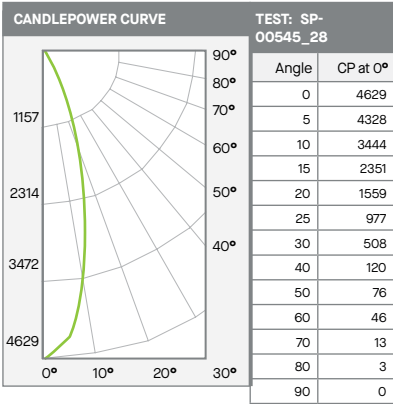
Lm	A
XT10L	5.3
XT13L	5.3
XT20L	5.8
XT30L	6.1



Spectrum Lighting

PHOTOMETRIC DATA - 3" SQUARE DEEP

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



Delivered Lumens: 2068
 Luminaire Watts: 34.6
 LER: 60

CP @ 0° (Nadir): 4629
 CRI: 83

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%

Beam Angle: 30.5°
 Spacing Ratio: 0.52

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

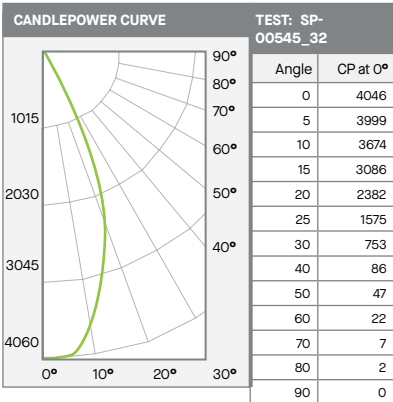
* From aperture to horizontal surface below.
 ** At IESNA defined Beam Angle, to 50% Max. CP.

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

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

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



Delivered Lumens: 2509
 Luminaire Watts: 34.6
 LER: 73

CP @ 0° (Nadir): 4046
 CRI: 83

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%

Beam Angle: 44.7°
 Spacing Ratio: 0.72

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

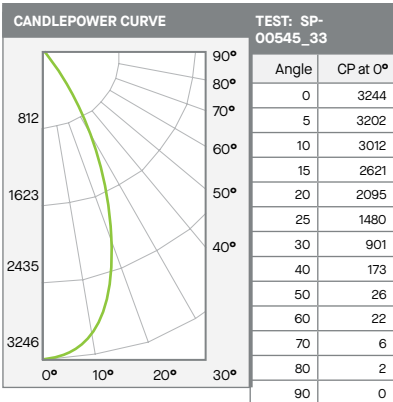
* From aperture to horizontal surface below.
 ** At IESNA defined Beam Angle, to 50% Max. CP.

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

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

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



Delivered Lumens: 2383
 Luminaire Watts: 34.6
 LER: 69

CP @ 0° (Nadir): 3244
 CRI: 83

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%

Beam Angle: 48.4°
 Spacing Ratio: 0.78

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.

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

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

