



3" SQUARE DOWNLIGHT

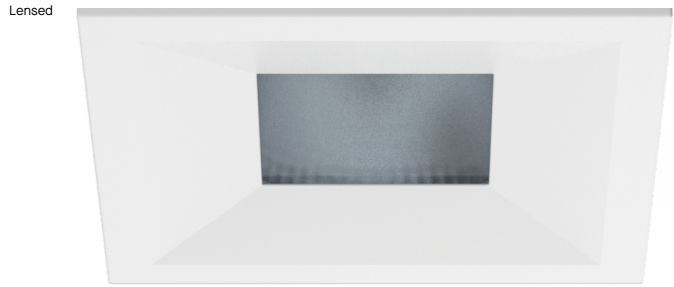
3000 LUMENS MAX

UNIVERSAL HOUSINGS WITH INTERCHANGEABLE TRIMS

Spectrum's A Spec 3" recessed square downlight series features a shallow plenum housing and variety of trims for accent and general illumination.

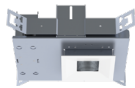
LUMENS AND WATTAGE CHART					
PART NUMBER	LUMENS	SOURCE LUMENS ¹	DELIVERED LUMENS ²	SYSTEM WATTS	LPW
SD3F	XT10L	1000	785	11.1	71
SD3F	XT13L	1300	1058	15	71
SD3F	XT20L	2000	1627	23.7	69
SD3F	XT30L	3000	2441	34.6	71

PROJECT: _____
 TYPE: _____

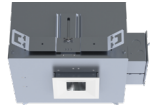


AVAILABLE HOUSING TYPES

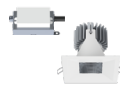
SS3MO - New Construction / 30L Max



SS3MI - IC New Construction / 20L Max



SS3MR - Remodel Construction / 30L Max



FIXTURE HOUSING SPECIFICATION

SERIES	LUMENS ¹	DRIVER / DIMMING / VOLTAGE	OPTIONS
SS3MO New Construction SS3MI IC New Construction SS3MR Remodel Construction	XT10L 1000 Lm XT13L 1300 Lm XT20L 2000 Lm XT30L ^{4,5} 3000 Lm XN BEAM XN10L 1000 Lm XN13L ⁵ 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 ED01 0.1%, eldoLED DMXS ^{6,7} DMX Standard Configuration DMXC ^{6,7} DMX Non-Standard Custom BLU Bluetooth LE	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 2" Thick Ceiling Adaptor

- Die-cast aluminum trim with a wide variety of options.
- Shallow plenum housing.
- 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 SS3D for 1" deep 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
SD3F Downlight SA3F ⁹ 35° Adjustable SI3F 15° Adjustable SW3F ⁹ Wall Wash SH3F Pinhole SP3F 25° Pull Down	83 CRI 27K 2700K 30K 3000K 35K 3500K 40K 4000K 98 CRI ARTIST ¹ 27HK 2700K 30HK 3000K 35HK 3500K 40HK 4000K	XN ¹⁰ 13° ND 26° MD 40° WD 47° 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 Solite™ Micro Prism Lens LW ¹⁴ Wall Wash Spread Lens GL Clear Glass Lens FG Frosted Glass Lens BB Black Baffle PR2 ¹⁵ 2" Thick Ceiling Adaptor WL ¹⁵ Wet Location WF ¹⁶ White Flange



LIGHTSOURCE BY XICATO®



EXAMPLE: SS3MOXT10LDS2W1/H12/SA3F27KMDMWNL

NOTES:
 1 Nominal Source Lumens at Any CCT 2 Nominal Delivered Lumens 83 CRI at Any CCT with WD-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 SD3F,SA3F,SI3F,SW3F,SH3F Only 16 Otherwise Flange Is Same Color As Interior Of Trim

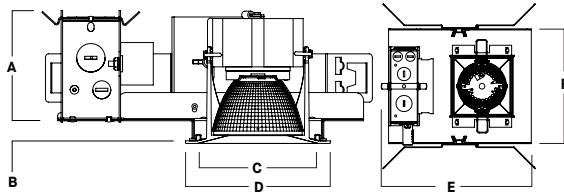
Dimensions and values shown are nominal. Spectrum Lighting continually works to improve products and reserves the right to make changes which may alter the performance or appearance of products.



HOUSING DIMENSIONS

SS3MO - 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.



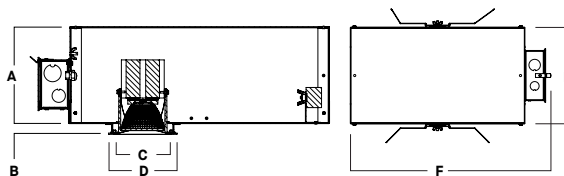
LED	A	B	C	D	E	F
XT10L	3.43	.625	3.8	4.5	9.6	7.6
XT13L	3.67	.625	3.8	4.5	9.6	7.6
XT20L	4.17	.625	3.8	4.5	9.6	7.6
XT30L	4.17	.625	3.8	4.5	9.6	7.6

Fixture Weight: 4.0 lbs

Ceiling Cutout: 4.12 Sq

SS3MI - IC NEW CONSTRUCTION / 20L MAX

IC rated frame-in kit for new construction with direct insulation contact.



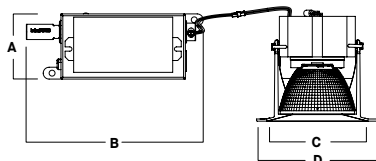
A	B	C	D	E	F
6.4	.625	3.8	4.5	9.5	10L-13L: 13.2
162.6 mm	15.9 mm	96.5 mm	114.3 mm	241.3 mm	20L: 19.2

Fixture Weight: 5.0 lbs

Ceiling Cutout: 4.12 Sq

SS3MR - 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	3.8	4.5
71.1 mm	190.5 mm	96.5 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. 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

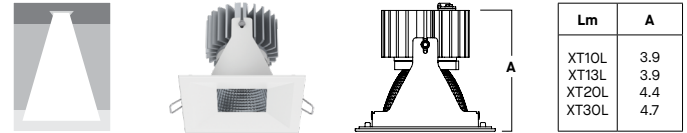
ETL Certified to meet US and Canadian Standards. Manufactured and tested to UL standard No. 1598/8750. BAA compliant. Wet location (WL) and Insulated Ceiling (IC) options available.

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.

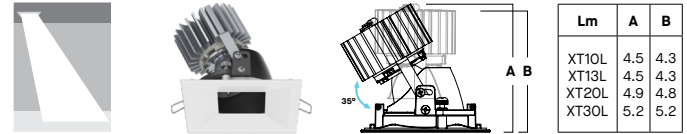
TRIM / MODULE DATA

SD3F - DOWNLIGHT MODULE



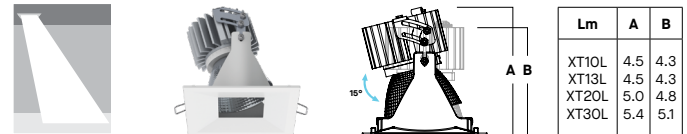
Lm	A
XT10L	3.9
XT13L	3.9
XT20L	4.4
XT30L	4.7

SA3F - 35° ADJUSTABLE MODULE



Lm	A	B
XT10L	4.5	4.3
XT13L	4.5	4.3
XT20L	4.9	4.8
XT30L	5.2	5.2

SI3F - 15° ADJUSTABLE MODULE



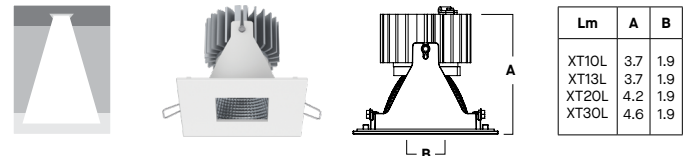
Lm	A	B
XT10L	4.5	4.3
XT13L	4.5	4.3
XT20L	5.0	4.8
XT30L	5.4	5.1

SW3F - WALL WASH MODULE



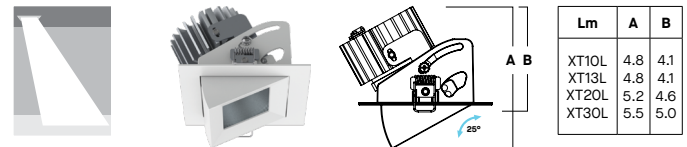
Lm	A
XT10L	4.5
XT13L	4.5
XT20L	5.0
XT30L	5.4

SH3F - PINHOLE MODULE



Lm	A	B
XT10L	3.7	1.9
XT13L	3.7	1.9
XT20L	4.2	1.9
XT30L	4.6	1.9

SP3F - 25° PULL DOWN MODULE

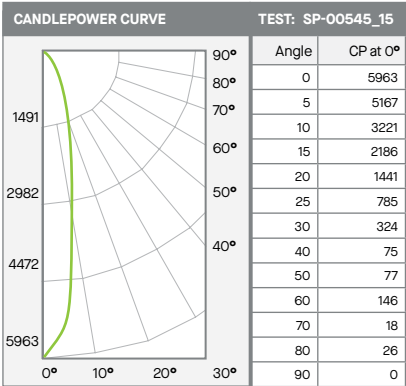


Lm	A	B
XT10L	4.8	4.1
XT13L	4.8	4.1
XT20L	5.2	4.6
XT30L	5.5	5.0



PHOTOMETRIC DATA - 3" SQUARE

SS3Mx-XT30L-E1-SD3x-xxK-ND-MW-NL



ZONAL LUMENS		
0-10	496	20%
0-20	1283	51%
0-30	1874	75%
0-40	2175	87%
0-60	2359	94%
0-80	2499	100%
0-90	2511	100%
Total Lumens	2511	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'	197	2.2'	95
6.5'	141	2.6'	68
7.5'	106	3.0'	51
8.5'	83	3.4'	40
10'	60	3.9'	29
12'	41	4.7'	20
14'	30	5.5'	15
16'	23	6.3'	11

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

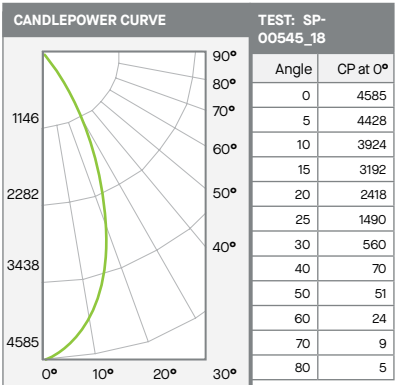
MULTIPLE UNITS: PERFORMANCE					
80/50/20% REFLECTANCES					
INITIAL FOOTCANDLES AND WATTS PER SQUARE FOOT					
Ceiling Height	Fixture Spacing	RCR 8		RCR 10	
		FC*	W/Sq. Ft.	FC*	W/Sq. Ft.
8'	2.5'	73	1.38	52	1.08
12'	4'	49	0.92	46	0.96
16'	5'	41	0.78	39	0.81
Delivered Illuminance Rating: (DIR)		53 FC per W/Sq. Ft.		48 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: 2511 CP @ 0° (Nadir): 5963 Beam Angle: 22.3°
Luminaire Watts: 34.6 CRI: 83 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

SS3Mx-XT30L-E1-SD3x-MD-MW-NL



ZONAL LUMENS		
0-10	411	17%
0-20	1315	56%
0-30	2052	87%
0-40	2258	96%
0-60	2341	99%
0-80	2359	100%
0-90	2361	100%
Total Lumens	2361	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'	152	4.1'	66
6.5'	109	4.9'	48
7.5'	82	5.7'	36
8.5'	63	6.4'	28
10'	46	7.5'	20
12'	32	9.0'	14
14'	23	10.6'	10
16'	18	12.1'	8

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

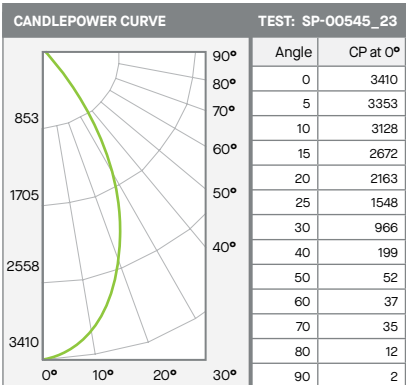
MULTIPLE UNITS: PERFORMANCE					
80/50/20% REFLECTANCES					
INITIAL FOOTCANDLES AND WATTS PER SQUARE FOOT					
Ceiling Height	Fixture Spacing	RCR 4		RCR 6	
		FC*	W/Sq. Ft.	FC*	W/Sq. Ft.
8'	5'	50	0.78	45	0.79
12'	8'	39	0.62	45	0.78
16'	10'	22	0.35	25	0.44
Delivered Illuminance Rating: (DIR)		63 FC per W/Sq. Ft.		57 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: 2361 CP @ 0° (Nadir): 4585 Beam Angle: 41.3°
Luminaire Watts: 34.6 CRI: 83 Spacing Ratio: 0.68

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

SS3MRx-XT30L-E1-SD3x-WD-MW-NL



ZONAL LUMENS		
0-10	312	13%
0-20	1065	44%
0-30	1818	75%
0-40	2232	91%
0-60	2374	97%
0-80	2435	100%
0-90	2441	100%
Total Lumens	2441	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'	113	4.8'	47
6.5'	81	5.7'	34
7.5'	61	6.5'	25
8.5'	47	7.4'	20
10'	34	8.7'	14
12'	24	10.4'	10
14'	17	12.2'	7
16'	13	13.9'	6

* 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)		71 FC per W/Sq. Ft.		62 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: 2441 CP @ 0° (Nadir): 3410 Beam Angle: 47°
Luminaire Watts: 34.6 CRI: 83 Spacing Ratio: 0.76

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

