

2" SQUARE DOWNLIGHT

2000 LUMENS MAX

UNIVERSAL HOUSINGS WITH INTERCHANGEABLE TRIMS

Spectrum's A Spec 2" recessed square downlight series features a shallow plenum housing and variety of trims for accent and general illumination.

LUMENS AND WATTAGE CHART							
PART NUMBER	IIIMENS IIIIIII		SYSTEM WATTS	LPW			
SD2F	XT10L	1000	907	11.1	81.7		
SD2F	XT13L	1300	1222	15.0	81.5		
SD2F	XT20L	2000	1881	23.7	79.4		

QUANTITY:	TYPE:	
Lensed		

AVAILABLE HOUSING TYPES







FIXTURE HOUSING SPECIFICATION

	SERIES	LUN	MENS ¹	DRIVER / DIMMING / VOLTAGE			OPTIONS		
SR2MO SR2MI ³ SR2MR		XT13L	1000 Lm 1300 Lm 2000 Lm	E_ DS10_ DS2W1	Electronic Driver 10%, 0-10V ELV/MLV, 120V	1 2		H12 ⁵ EB EMRM	3
		XN10L XN13L4							

AVAILABLE TRIM / MODULE TYPES



TRIM / MODULE SPECIFICATION

	TRIM		TRIM CCT		СТ	OPTICS			FINISH ⁷		OPTIONS	
SD2F	Downlight	83	CRI	XN⁵	14°	MW ⁸	Matte White	NL	No Lens			
SI2F	15° Adjustable	27K	2700K	MD	35°	МВ	Matte Black	GL ¹⁰	Clear Glass Lens			
SH2F	Pinhole	30K	3000K	WD	51°	PT	Platinum Silver	so	Micro Prism Solite™ Lens			
SHI2F	15° Adjustable Pinhole	35K	3500K			BZ	Bronze	FG	Frosted Glass Lens			
		40K	4000K			СН	Charcoal	WF"	White Flange			
		98 CRI	ARTIST			ОВ	Oil Rubbed Bronze					
		27HK	2700K			AS	Sapphire					
		зонк	3000K			AM	Malachite					
		35HK	3500K			SN	Sun Gold					
		40HK	4000K			co	Copper Metallic					
						GH	Graphite					
						CC ₉	Custom Color					

EXAMPLE: SR2MOXT10LDS2W1/H12EB/SD2F27KMDCHNL

NOTES:
1 Nominal Source Lumens at Any CCT
2 Nominal Delivered Lumens 83 CRI at Any CCT with MD-MW-NL Trim
3 IC New Construction not Available in XN Beam or XT20L 4 Not Available with HK 5 Standard Bar Hangers 6 9mm, 13L Max, All XN Draw More Watts Than Other Optics; See Photometry 7 Inside Trim And Flange Will Match Color Specified 8 Standard Finish 9 Contact Factory for Special Finishes 10 Standard Lens 11 Otherwise Flange Is Same Color As Interior Of Trim

- Die-cast aluminum trim with a wide variety of options.
- Shallow plenum housing.
- Universal housing accepts all trim types, including 2" round trim.
- Performance Xicato LED module for superior reliability and color consistency.
- Interchangeable optics and lenses.
- 5 year warranty on fixture and electronics.
- 10 year warranty on LED CCT.
- Sustainable fixture.
- Zhaga International Standard LED Module for future
- 83CRI 2SDCM, 98CRI 1×2SDCM best in industry.

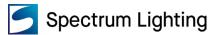








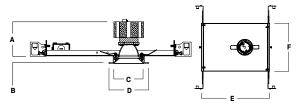




HOUSING DIMENSIONS

SR2MO - NEW CONSTRUCTION / 20L MAX

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



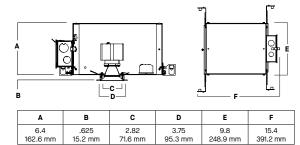
Α	В	С	D	E	F
4.2	.625	2.82	3.75	12.9	9.1
106.7 mm	15.2 mm	71.6 mm	95.3 mm	327.7 mm	231.1 mm

Fixture Weight: 4.0 lbs

Ceilina Cutout: Ø 3'

SR2MI - IC NEW CONSTRUCTION / 13L MAX

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



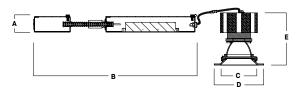
162.6 mm Fixture Weight: 5.0 lbs

391.2 mm Ceiling Cutout: Ø 3"

SR2MR - REMODEL CONSTRUCTION / 20L MAX

15.2 mm

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



A	В	С	D	Е
1.5	13.9	2.82	3.75	4.8
38.1 mm	353.1 mm	71.6 mm	95.3 mm	121.9 mm

Fixture Weight: 2.0 lbs

Ceiling Cutout: Ø 3"

TRIM / MODULE DATA

SD2F - DOWNLIGHT MODULE







Lm	Α
XT10L	4.8
XT13L	4.8
XT20L	4.8

SI2F - 15° ADJUSTABLE MODULE







Lm	A	В
XT10L	5.3	4.8
XT13L	5.3	4.8
XT20L	5.3	4.8

SH2F - PINHOLE MODULE





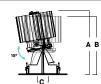


Lm /	A B	
XT13L 4	.8 1.3 .8 1.3 .8 1.3	3

SHI2F - 15° ADJUSTABLE PINHOLE MODULE







Lm	Α	В	С
XT10L	5.3	4.8	1.3
XT13L	5.3	4.8	1.3
XT20L	5.3	4.8	1.3

FEATURES

NEW CONSTRUCTION

Precision Die-formed 20 gauge galvanized steel housing and integral junction box with (1) 7/8" knockout for Non-IC (not designed for through branch circuit wiring) and (1) 5/8", (3) 7/8" and 2 (1") knockouts for IC. Junction box capacity: 8 12AWG rated for 90 °C. Tool-less driver and junction box access for ease of maintenance. Posi-loc trim rentention springs for 5/8"-1" ceiling thickness. For thicker ceilings consult factory.

REMODEL CONSTRUCTION

Features tethered power supply and junction box with sheathed wire, (1) 7/8" knockout, and (1) 5/8" Knockout.

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.

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).

LUMEN OUTPUT

Optics maintain 1000-2000 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

EMERGENCY

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

FUSING

Integral optional fast blow fuse with fuse holder.

COLOR VARIATION

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

LISTINGS

ETL Certified to meet US and Canadian Standards.

Manufactured and tested to UL standard No. 1598/8750. BAA compliant. 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.





PHOTOMETRIC DATA - 2" SQUARE

SR2MRx-XT2OL-E1-xD2F-xxK-MD-MW-NL

CANDLEPOWER CURVE TEST: SP-00544_1 Angle CP at 0° 90**°** 80° 0 4281 5 4153 70° 1070 10 3683 60° 15 2665 20 1620 2140 50° 25 1020 30 660 40**°** 40 145 321 50 60 5 70 5 4281 80 2 10° 20° 30**°** 90 0

Delivered Lumens: 1881 Luminaire Watts: 23.7 LFR: 79

CP @ 0° (Nadir): 4281 CRI: 83

0-10 383 20% 1120 60% 0-20 0-30 1602 85% 0-40 1828 0-60 1870 99% 1881 100% 1881 100% Lumens

ZONAL LUMENS

Beam Angle: 35° Spacing Ratio: 0.6

ZONAL LUMENS

1364 72%

1759 94%

1900 101%

1906 101%

1906 101%

100%

0-40

0-60

0-80

0-90

Total

Lumens

12%

20L MEDIUM - 83 CRI

SINGLE UNIT		NCE BEAM ANGLE D	IAMETERS
Mounting Height*	FC at Center	Diameter of Beam**	FC at Beam**
5.5'	142	3.5'	64
6.5'	101	4.1'	46
7.5'	76	4.7'	35
8.5'	59	5.4'	27
10'	43	6.3'	19
12'	30	7.6'	14
14'	22	8.8'	10
16'	17	10.1'	8

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

FC Multipliers: 10L x 0.482, 13L x 0.65 W/Sq. Ft. Multipliers: 10L x 0.468, 13L x 0.633

MULTIPLE UNITS: PERFORMANCE 80/50/20% REFLECTANCES INITIAL FOOTCANDLES AND WATTS PER SQUARE FOOT							
Ceiling	Fixture	RCR 4		RCR 6			
Height	Spacing	FC*	W/Sq. Ft.	FC*	W/Sq. Ft.		
8'	5' **	40	0.53	37	0.54		
12'	8' ***	32	0.42	36	0.53		
16'	10' **	18	0.24	21	0.3		
Delivered Illuminance Rating: (DIR)		75 FC per W/Sq. Ft.		68 FC per W/Sq. Ft.			

Square Rooms used for Multiple Units:

SR2MRx-XT20L-E1-xD2F-xxK-WD-MW-NL

CANDLEP	OWER C	TEST: SP-00545_8			
			90°	Angle	CP at 0°
	K	\rightarrow	800	0	2462
010		1	700	5	2417
616		$\langle \times $	-	10	2255
	/ / /	(X)	60°	15	1984
				20	1631
1231	1231		50°	25	1269
	1	$\setminus \times$	1	30	948
1847	\	\nearrow	40°	40	342
1047	+1			50	14
	\/ \	\		60	4
	X			70	2
2462				80	2
0°	10 °	20°	30 °	90	0

Delivered Lumens: 1906 Luminaire Watts: 23.7 LER: 80

CP @ 0° (Nadir): 2462 CRI: 83

Beam Angle: 51.2° Spacing Ratio: 0.8

20L 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'	81	5.3'	33				
6.5'	58	6.2'	24				
7.5'	44	7.2'	18				
8.5'	34	8.1'	14				
10'	25	9.6'	10				
12'	17	11.5'	7				
14'	14' 13		5				
16'	10	15.3'	4				

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

FC Multipliers: 10L x 0.482, 13L x 0.65 W/Sq. Ft. Multipliers: 10L x 0.468, 13L x 0.633

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'	44	0.53	39	0.53				
12'	9'	20	0.24	17	0.23				
16'	12'	11	0.13	10	0.13				
Delivered Illuminance Rating: (DIR)		84 FC per W/Sq. Ft.		74 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



