

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	LUMENS	SOURCE LUMENS ¹	DELIVERED LUMENS ²	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	LUI	MENS ¹	DRIVER / DIMMING / VOLTAGE			OPTIONS		
SR2MI ³	IC New Construction	XT13L	1000 Lm 1300 Lm 2000 Lm	E_ DS10_ DS2W1		1 2	120V 277V	H12 ⁵ EB EMRM	12" - 24" Expandable Bars Black Housing Remote Emergency Battery Pack
		XN BEAM							
		XN10L XN13L ⁴	1000 Lm 1300 Lm						

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	1		ОВ	Oil Rubbed Bronze					
		27HK	2700K	1		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.









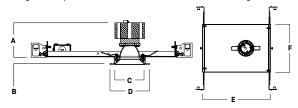




HOUSING DIMENSIONS

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.



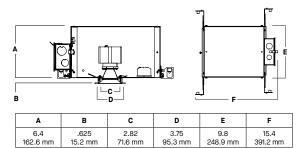
Α	В	С	D	E	F
4.2	.625	2.82	3.75	12.9	9.1
106.7 mm	15.2 mm	71.6 mm	95.3 mm	327.7 mm	231.1 mm

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.

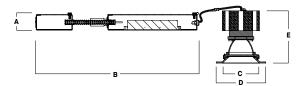


Fixture Weight: 5.0 lbs

Ceiling Cutout: Ø 3"

SR2MR - REMODEL CONSTRUCTION / 20L MAX

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	E
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	A
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





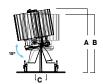


Lm	A	В
XT10L	4.8	1.3
XT13L	4.8	1.3
XT20L	4.8	1.3

SHI2F - 15° ADJUSTABLE PINHOLE MODULE







Lm	A	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.

TDIM

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 engine.

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. 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 660 30 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

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%

ZONAL LUMENS

1120 60%

1602 85%

1828

1870 99%

1881 100%

1881 100%

0-10 383 20%

0-20

0-30

0-40

0-60

20L MEDIUM - 83 CRI

Mounting	FC at	Diameter	FC at
Height*	Center	of Beam**	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.			
Sauoro D	000001100	d for Multin	olo Unito.				

Square Rooms used for Multiple Units:

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

CANDLEPOWER CURVE		TEST: SI	P-00545_8
	90°	Angle	CP at 0°
	80°	0	2462
010	700	5	2417
616		10	2255
	60°	15	1984
		20	1631
1231	50°	25	1269
	1	30	948
1847	40°	40	342
1047		50	14
		60	4
		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'	13	13.4'	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

Ceiling	Fixture	RCR 2		R SQUARE FOOT	
	Spacing	FC*	W/Sq. Ft.	FC*	W/Sq. F1
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



