a spec

3" ROUND DECORATIVE GLASS
3000 LUMENS MAX

UNIVERSAL HOUSINGS WITH INTERCHANGEABLE TRIMS

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

Bubble Glass

Frosted Glass

LUMENS AND WATTAGE CHART

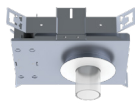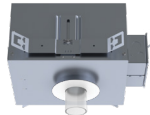| PART NUMBER	LUMENS	SOURCE LUMENS[1]	DELIVERED LUMENS[2]	SYSTEM WATTS	LPW
RD3F	XT10L	1000	204	11.1	18
RD3F	XT13L	1300	275	15.0	18
RD3F	XT20L	2000	424	23.7	18
RD3F	XT30L	3000	636	34.6	18

AVAILABLE HOUSING TYPES

SR3MO - New Construction / 30L Max

SR3MI - IC New Construction / 20L Max

SR3MR - Remodel Construction / 30L Max

FIXTURE HOUSING SPECIFICATION

SERIES		LUMENS[1]		DRIVER / DIMMING / VOLTAGE				OPTIONS	
SR3MO	New Construction	**XT10L**	1000 Lm	**E_**	Electronic Driver	**1**	120V	**H12**	12" - 24" Expandable Bars
SR3MI[3]	IC New Construction	**XT13L**	1300 Lm	**DS10_**	10%, 0-10V	**2**	277V	**H06**	6" - 12" Expandable Bars
SR3MR	Remodel Construction	**XT20L**[4]	2000 Lm	**DS2W1**	ELV/MLV, 120V			**BH27**	27" Solid Bars
		XT30L[4/5]	3000 Lm	**BLU**	Bluetooth LE			**CB24**	24" C-Channel Bars
								CH24	24" Chicago Bars
								FS	Fusing
								EM[6]	Integral Emergency Battery
								EMRM	Remote Emergency Battery Pack
								EB	Black Housing
								PR2[7]	2" Thick Ceiling Adaptor

AVAILABLE TRIM / MODULE TYPES

RH3BGC2   RH3FGC2

TRIM / MODULE SPECIFICATION

TRIM		CCT		OPTICS		TRIM FINISH[8]		OPTIONS	
RH3BGC2	Bubble Glass Tube Accent		83 CRI	**MD**	45°	**MW**[9]	Matte White	**NL**	No Lens
RH3FGC2	Frosted Glass Tube Accent	**27K**	2700K			**MB**	Matte Black		
		30K	3000K			**PT**	Platinum Silver		
		35K	3500K			**BZ**	Bronze		
		40K	4000K			**CH**	Charcoal		
			98 CRI ARTIST[4]			**OB**	Oil Rubbed Bronze		
		27HK	2700K			**AS**	Sapphire		
		30HK	3000K			**AM**	Malachite		
		35HK	3500K			**SN**	Sun Gold		
		40HK	4000K			**CO**	Copper Metallic		
						GH	Graphite		
						CC[10]	Custom Color		

EXAMPLE: SR3MOXT10LDS2W1/H12/RH3BGC227KMDMWNL

NOTES:
1 Nominal Source Lumens at Any CCT **2** Nominal Delivered Lumens 83 CRI at Any CCT with MD-MW-RH3FGC2 **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** Not Available in IC **7** Contact Factory **8** Inside Trim And Flange Will Match Color Specified **9** Standard Finish **10** Contact Factory for Special Finishes

- Decorative formed round glass tubes in bubble or frosted finish.
- 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 SR3D for 1" deep regress trim and SR3S 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.

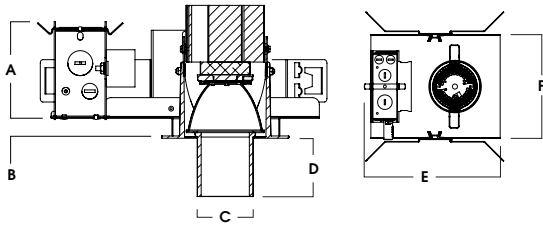LIGHTSOURCE BY **XICATO**

5 YEAR WARRANTY

MADE IN THE USA

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.

SPECTRUM LIGHTING INC.

HOUSING DIMENSIONS

SR3MO - 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.
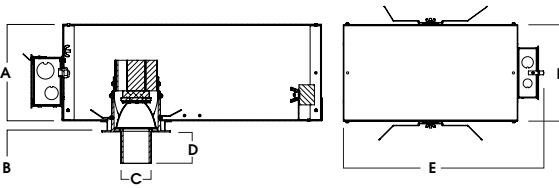

LED	A	B	C	D	E	F
XT10L	3.43	.625	2.0	2.1	9.57	7.65
XT13L	3.77	.625	2.0	2.1	9.57	7.65
XT20L	4.27	.625	2.0	2.1	9.57	7.65
XT30L	4.27	.625	2.0	2.1	9.57	7.65

Fixture Weight: 4.0 lbs   Ceiling Cutout: Ø 4"

SR3MI - IC NEW CONSTRUCTION / 20L MAX

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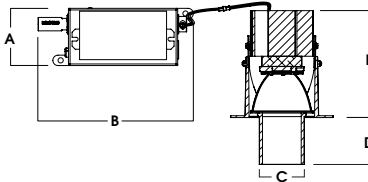

A	B	C	D	E	F
6.36	.625	2.0	2.1	10L-13L: 13.2	9.5
161.5 mm	15.9 mm	50.8 mm	53.3 mm	20L: 19.2	241.3 mm

Fixture Weight: 5.0 lbs   Ceiling Cutout: Ø 4"

SR3MR - 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	E
2.8	7.5	2.0	2.1	4.9
71.1 mm	190.5 mm	50.8 mm	53.3 mm	124.5 mm

Fixture Weight: 2.0 lbs   Ceiling Cutout: Ø 3 3/4"

TRIM / MODULE DATA

RH3BGC2 - BUBBLE GLASS TUBE ACCENT MODULE

Lm	A	B	C
XT10L	4.9	2.1	2.0
XT13L	4.9	2.1	2.0
XT20L	4.9	2.1	2.0

RH3FGC2 - FROSTE GLASS TUBE ACCENT MODULE

Lm	A	B	C
XT10L	4.9	2.1	2.0
XT13L	4.9	2.1	2.0
XT20L	4.9	2.1	2.0

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 rentention 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. Decorative glass is finished in blown glass or frosted pattern.

REMODEL
Features tethered power supply and junction box with sheathed wire.

LUMEN OUTPUT
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.
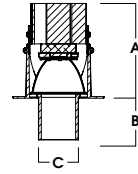
EMERGENCY
Integral or remote 7W emergency battery options are available. Operates for 90 minutes and produces nominal 450 lumens.

BLUETOOTH
Integral Bluetooth LE option is available for dimming to .1%, grouping, remote access, electrical feedback and beacon technology.
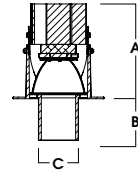
FUSING
Integral optional fast blow fuse with fuse holder.

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. 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.

SPECTRUM LIGHTING INC.

PHOTOMETRIC DATA - 3" ROUND DECORATIVE

SR3Mx-XT30L-E1-RH3FGC2-35K-MD-MW

CANDLEPOWER CURVE

Delivered Lumens: 633
Luminaire Watts: 34.6
LER: 18.29

INTENSITY

	0.00°
0.00°	1,802
5.00°	1,636
10.00°	1,164
15.00°	476
20.00°	228
30.00°	109
40.00°	66
50.00°	53
60.00°	48
70.00°	42
80.00°	36
90.00°	0

CP at 0deg (Nadir): 1,802
CRI: 83

ZONAL LUMENS

0° - 10°	141	22%
0° - 20°	283	45%
0° - 30°	352	56%
0° - 40°	406	64%
0° - 60°	502	79%
0° - 80°	596	94%
0° - 90°	631	100%
Total	633	100%

Beam Angle: 23.29
Spacing Ratio: 0.4

SINGLE UNIT: PERFORMANCE
INITIAL FOOTCANDLES
BASED ON IES BEAM ANGLE

Mounting Height AFF	FC at Center on Floor	Beam Diameter	FC at Beam Edge
5.50 '	60 fc	2.3 '	30 fc
6.50 '	43 fc	2.7 '	21 fc
7.50 '	32 fc	3.1 '	16 fc
8.50 '	25 fc	3.5 '	12 fc
10.00 '	18 fc	4.1 '	9 fc
12.00 '	13 fc	5.0 '	6 fc
14.00 '	9 fc	5.8 '	5 fc
16.00 '	7 fc	6.6 '	4 fc

Lamp Multiplier: 10L x 0.32, 13L x 0.43, 20L x 0.67
CCT Multiplier: LEDXT lumen output is the same for all available CCT's

MULTIPLE UNITS: PERFORMANCE
80/50/20% REFLECTANCES
INITIAL FOOTCANDLES AND WATTS PER SQUARE FOOT

Ceiling Height	Fixture Spacing	RCR 3		RCR 5	
		FC [+]	W/Sq. Ft.	FC [+]	W/Sq. Ft.
8'	3' [*]	64	4.08	86	6.36
12'	5' [**]	22	1.39	19	1.38
16'	7' [***]	13	0.85	8	0.59
Delivered Illuminance Rating: (DIR)		16 FC per W/Sq. Ft.		14 FC per W/Sq. Ft.	

2' Suspension Length
Square rooms used for multiple units:
- RCR 3: Length & Width = Ceiling Ht. -4.5' x 3.33
- RCR 5: Length & Width = Ceiling Ht. - 4.5' x 2.00
[+] Average Footcandles at 2.5' Above Floor
[*] Exceeds spacing criteria by 114%
[**] Exceeds spacing criteria by 67%
[***] Exceeds spacing criteria by 52%

SPECTRUM LIGHTING INC.

83-70100_RH