_	RGB/W Saturated Color	Catalog Number B3SA 18FC1 35 S WH V
		Notes

BeveLED[®] 2.2 Infinite Color+[®] - B4SA-FC1 4.5" Square Adjustable

Lighting

Туре

Field Convertible from Trimless or Millwork to Trimmed

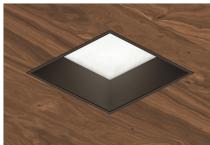
Trimmed - B4SAF-FC1



Trimless - B4SAL-FC1



Millwork - B4SAM-FC1



usailighting.com/infinitecolor

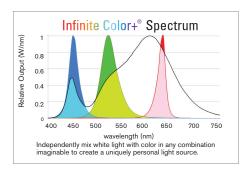
BeveLED 2.2 Infinite Color+ - Access to a wide variety of perfect architectural whites, saturated colors, neutrals, and pastels are possible with DMX controls. Infinite opportunities abound for residential, hospitality and retail lighting applications, and any project requiring full color and white light flexibility.

FEATURES

- Full color and white light flexibility
- Dry/damp/wet location rated for showers
- · Field convertible from trimless or millwork to trimmed

DOWNLIGHT PERFORMANCE DATA

DELIVERED	Infinite Color +	
PERFORMANCE:	White Light Channel Only	Multi Channel Output
Wattage	23W	32W
Source Lumens:	1675	2100
Lumens Per Watt:	55	48
Delivered Lumens:	1225	1550



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110j00(21 12011 0 Dute 0/20/2021		Туре
Submitted By	Notes	
16500, INC		
	RGB/W Saturated Color	RGB/W Saturated Color B3SA 18FC1 35 S WH WH NC1 RM CB27 Submitted By Notes

HOW TO SPECIFY

BeveLED® 2.2 Infinite Color+® - B4SA-FC1 4.5" Square Adjustable with Integral Driver

Specify fixture part number

age Deam Options R35 ED R35 S5° beam R40 40° beam R45	Lens Options S Solite (provided	Bevel Trim Finish Options WH White	*Flange/ Millwork Collar Finish WH	Housing Options	Universal Voltage	Dimming Driver	Cabling Options	Accessories
ED 35° beam R40 40° beam	Solite (provided		WH		Option	Options	Select one	(Optional)
40° beam		1	White	NC New	UNV 120V-277V	D23X1 EldoLED DMX 0.1%	RJ RJ45 Jacks	CB27 27"
D45	standard)	SC Conduit Silver	SC Conduit Silver	Construction All-in-One		dimming, manual addressing using RDM protocol, 8 bit	WR Manual Wire	C-Channel Bars
45° beam	SF Solite Frosted	GR Grey	GR Grey	NCCP Chicago Plenum		Splice	Splice Connection	CB52
R60 60° beam		BL Black	BL Black	NCIC Insulation		dimming, manual addressing using		Bars EM
R70 70° beam		BZ Bronze	BZ Bronze	Contact Rated /		RDM protocol, 16 bit		Emergency battery
R80 80° beam		PR Primer Finish	PR Primer Finish	Airtight				(available with NC housing only)
R64 40° x 60° linear		AC Clear Matte Anodized	AC Clear Matte Anodized					HEX Hex Cell Louver
spread			WH White					
			GR Grey					
			BL Black					
		AB Piano Gloss Black	AB Piano Gloss Black					
5			WH White					
			GR Grey					
			BL Black					
		RAL Custom Color Specify RAL #	RAL Custom Color Specify RAL #					
Custom RAL (example)			*Leave blank for Trimless					
	Black Custom RAL (example)	Black Custom RAL (example)	S Black Black Custom RAL (example) RAL Custom Color Specify RAL #	S BL Black Black Black AB Piano Gloss Black AB Piano Gloss Black Black WH White Black BL Black Black RAL Custom Color Specify RAL # Custom RAL (example) RAL Custom Color	S AB Piano Gloss Black AB Piano Gloss Black AB Piano Gloss Black MH White GR Grey Bl Black Diack RAL Custom Color Specify RAL # Custom RAL (example) RAL Custom Color Specify RAL #	S BL Black Black AB Piano Gloss Black Black WH White Black GR Grey Black BL Black Custom Color Specify RAL # RAL Custom Color Specify RAL #	S AB Plano Gloss Black AB Plano Gloss Black MH White WH White GR Grey BL Black GR Grey BL Black Custom Color Specify RAL # RAL Custom Color Specify RAL # Leave blank for Trimless 'Leave blank for Trimless	S AB Piano Gloss Black AB Piano Gloss Black WH White WH White GR Grey BL Black BL BL Custom Color Specify RAL # RAL Custom Color Specify RAL # 'Leave blank for Trimless 'Leave blank for Trimless

USAI LIGHTING HEADQUARTERS 1126 River Road New Windsor, NY 12553 845–565–8500 info@usailighting.com Lighting

_		Catalog Number B3SA 18FC1 35 S WH WH NC1 RM CB27	Туре
sixteen5hundred			
_	Submitted By	Notes	
	16500, INC		

HOW TO SPECIFY

BeveLED® 2.2 Infinite Color+® - B4SA-FC1 4.5" Square Adjustable with Remote Driver

1. Specify fixture part number

B4SA		32FC1						RM		US	AI
BeveLED Trim Style	Trim Choice	Wattage Options	Beam Options	Lens Options	Bevel Trim Finish Options	*Flange/ Millwork Collar Finish	Housing Options	Remote Dimming Driver	Accessories (Optional)	Роч	ver
F Trimmed	25 Horizontal	32FC1 32W LED	R35 35° beam	S Solite	WH White	WH White	NC New	RM Remote	CB27 27"	Sup	ply
with Flange (use with all	trim lens, can be		R40 40° beam	(provided standard)	SC Conduit Silver	SC Conduit Silver	Construction All-in-One	Dimming Driver, specify	C-Channel Bars	Mus	t Be
materials) L	used for all tilt angles from		R45 45° beam	SF Solite	GR Grey	GR Grey	NCCP Chicago Plenum	remote power	CB52 52" C-Channel	Sup Must	ified
Trimless Spackle-in (use with	0°-40° (provided		R60 60° beam	Frosted	BL Black	BL Black	NCIC Insulation	supply in table below	Bars	opec	meu
sheetrock and plaster	standard)		R70 70° beam		BZ Bronze	BZ Bronze	Contact Rated /		HEX Hex Cell Louver		
only) M Millwork	40 Optional cut-cone		R80 80° beam		PR Primer Finish	PR Primer Finish	Airtight				
Knife-Edge (use with wood and	trim with canted lens, can		R64 40° x 60° linear		AC Clear Matte Anodized	AC Clear Matte Anodized					
stone)	be used for reduced		spread			WH White					
	clipping at tilt angles from					GR Grey					
	25°-40°					BL Black					
			1		AB Piano Gloss Black	AB Piano Gloss Black					
TRIM FI	NISH OF	TIONS				WH White					
]		GR Grey					
				,		BL Black					
White	Grey		ack		RAL Custom Color Specify RAL #	RAL Custom Color Specify RAL #					
Bronze	Custom (example		ustom RAL xample)			*Leave blank for Trimless					
Custom cold	ors and prime										

2. Specify Remote Power Supply -

RPC-01 Remote Power Supply	32FC1 Fixture Wattage	UNV Voltage	Remo	te Dimming Driver Type*	Cabling Options Select one	
RPC-01 BeveLED 2.2	32FC1 32W LED	UNV 120V - 277V	D23X1	EldoLED DMX 0.1% dimming, manual addressing using RDM protocol, 8 bit	RJ RJ45 Jacks	
Infinite Color+ Remote Power Supply			D23X2	EldoLED DMX 0.1% dimming, manual addressing using RDM protocol, 16 bit	WR Manual Wire	NOTE:
r ower Suppry				es remote enclosure by others, n size 9 "L x 4"W x 2"H	Splice Connection	Remote Power Supplies Require Enclosures by Others. See Page 7 for Details.

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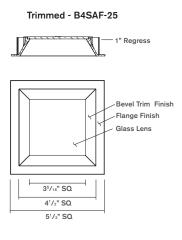
Lighting

		Catalog Number B3SA 18FC1 35 S WH WH NC1 RM CB27	Туре
sixteen5hundred			
	Submitted By	Notes	
	16500, INC		

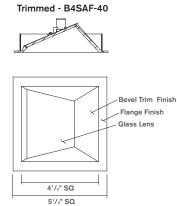
BeveLED® 2.2 Infinite Color+® - B4SA-FC1 4.5″ Square Adjustable

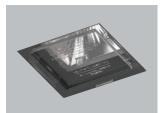
USAI[®] Lighting

TRIM DETAILS



Trimmed - B4SAF-FC

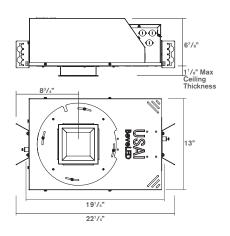




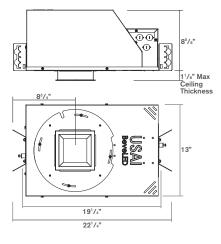
Clear acrylic overspray protector provided standard with every housing to keep out dust and contaminants during construction. Allows for use as work light.

HOUSING OPTIONS

New Construction - NC



Insulation-Contact Rated - NCIC Chicago Plenum Rated - NCCP



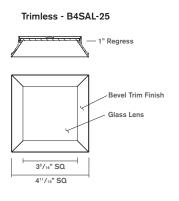
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_	RGB/W Saturated Color	Catalog Number B3SA 18FC1 35 S WH WH NC1 RM CB27	Туре
		Notes	

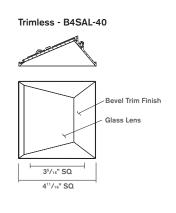
BeveLED® 2.2 Infinite Color+® - B4SA-FC1 4.5″ Square Adjustable

USAI[®] Lighting

TRIM DETAILS



Trimless - B4SAL-FC

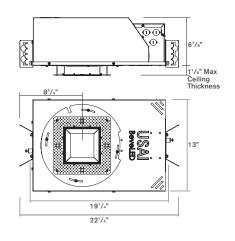




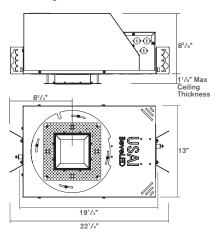
Clear acrylic overspray protector provided standard with every housing to keep out dust and contaminants during construction. Allows for use as work light.

HOUSING OPTIONS

New Construction - NC



Insulation-Contact Rated - NCIC Chicago Plenum Rated - NCCP



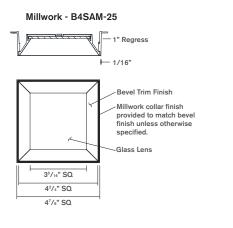
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_	RGB/W Saturated Color	Catalog Number B3SA 18FC1 35 S WH WH NC1 RM CB27	Туре
	Submitted By 16500, INC	Notes	

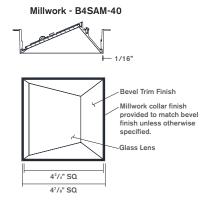
BeveLED® 2.2 Infinite Color+® - B4SA-FC1 4.5″ Square Adjustable

USAI[®] Lighting

TRIM DETAILS



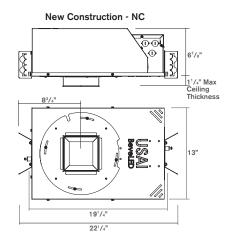
Millwork - B4SAM-FC



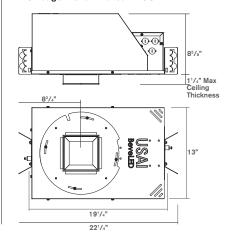


Clear acrylic overspray protector provided standard with every housing to keep out dust and contaminants during construction. Allows for use as work light.

HOUSING OPTIONS



Insulation-Contact Rated - NCIC Chicago Plenum Rated - NCCP



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BeveLED[®] 2.2 Infinite Color+[®] - B4SA-FC1 4.5" Square Adjustable



BEVELED 2.2 INFINITE COLOR+ SPECIFICATIONS

FIELD REPLACEABLE LED LIGHT ENGINE

is serviceable through the aperture without tools or with a Philips screwdriver. All USAI Lighting light engines feature industry-leading color consistency.

Notes

ADJUSTMENT

True hot aiming with center beam optics is adjustable, either tool-less or with a Phillips screwdriver. 0°-40° lockable vertical tilt with 362° lockable rotation.

ACCESSORY HOLDER

Snap in accessory holder shipped with fixture accomodates 2 accessories maximum.

FIELD REPLACEABLE INTEGRAL DRIVER

Solid state electronic constant current DMX512 driver with a high power factor provided standard. Works with universal voltages 120V-277V. All integral dimming drivers are located within the fixture housing and are serviceable from below the ceiling through the aperture. Driver complies with IEEE C62.41 surge protection. Specify D23X1 for 8-bit communication controls; specify D23X2 for 16-bit communication controls. All driver options require remote device management (RDM) communication protocol for addressing.

INTEGRAL EMERGENCY BATTERY

An integral emergency battery pack is available as an option with the NC housing and integral driver/power supply only. IOTA emergency battery provides backup power for 90 minutes. NC EM fixtures are provided with an integral emergency battery with remote test switch, which comes with a 24" lead length for location of the test switch. EM battery is located inside NC housing and can be serviced through the aperture from below the ceiling plane. In emergency mode Infinite Color+ uses the white channel only at ~25% power.

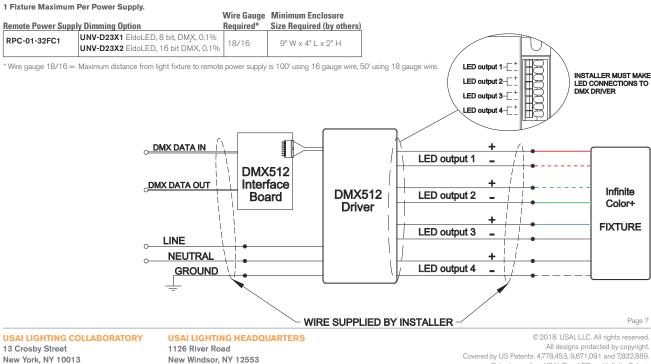


Remote Emergency Test Switch included with NC housing and integral driver only.

REMOTE LOCATION DRIVER

BeveLED 2.2 Infinite Color+ is available for use with remotely located driver. Driver is provided separately for remote location on site, enclosure to be provided by others. Remote dimming driver power supply option must be clearly specified in the "RP" table. below Remote power supplies require enclosures by others that meet local codes and must be located in an accessible service panel within 100ft of the light fixture; see remote driver table below for coordination of enclosure sizes and wire gauges required. All dimming drivers comply with IEEE C62.41 surge protection.

Remote Power Supply Requirements and Wiring Diagrams Note: Must be wired in homeruns per wiring diagram below.



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BeveLED[®] 2.2 Infinite Color+[®] - B4SA-FC1 4.5" Square Adjustable

CABLING: Data cables must be run in series between fixtures. Choose your preferred method of connection when specifying. To avoid signal transmission problems, the DMX link terminator dip switch should be used in the last fixture in a series on a given DMX bus. NOTE: Data communication cables and AC power lines must not be run in the same conduit.

• RJ Cabling Option: If the RJ cabling option is specified, the remote power supply is provided with a DMX interface board that has RJ45 jacks for data connection with CAT5 cable terminated with RJ45 connectors. A link termination dip switch is provided at the connector board; no separate link termination device is required.

• WR Cabling Option: If the WR cabling option is specified, the remote power supply is provided with a DMX interface board with terminal blocks for wires to be manually spliced for data connection. A link termination dip switch is provided at the connector board; no separate link termination device is required. The

- data cable used must meet the following requirements:
- type: shielded, 2-conductor twisted pair
- maximum capacitance between conductors: 30 pF/ft • maximum capacitance between conductor and shield: 55 pF/ft
- maximum resistance: 0.02 ohms/ft
- normal impedance: 100-140 ohms
- conductive core: 24 AWG is recommended

If 3-wire data cables are preferred, we suggest a Belden 9841 or equivalent cable which meets the specifications for EIA RS-485 applications. Do not use standard microphone cables: they cannot transmit DMX512 data reliably over long distances.

HOUSING

All BeveLED 2.2 fixtures are field-flexible which allows for field changes from trimless or millwork to trimmed with a simple components change with parts from USAI. All-Ways Square (covered by US Pat. No: US 7,832,889) housing allows alignment of square aperture (up to 20° rotation) after housing installation and prior to finish ceiling installation. Integral driver housings are fabricated of 20 ga. steel construction with thru wire J-box, 4 in 4 out at min. 90°C, #12 AWG thru branch circuit wiring. Remote driver housings are supplied with quick connects and wire connections for use with remotely located driver.

MOUNTING

B4SAF overlap flange fixtures are designed for use in sheetrock, acoustical ceiling tile, and many other ceiling materials. B4SAL trimless fixtures are provided with a spackle collar and are designed for use in sheetrock/mud-in ceiling applications. B4SAM millwork fixtures are provided with a millwork collar and are designed for use in wood/millwork and stone construction applications. Butterfly brackets and adjustable nailer bars extendible from 14" to 24" centers with integral nails are provided for attachment to building structure. C-channel bars are optionally available for acoustical ceiling applications.

FIXTURE WEIGHT

NC, NCIC, and NCCP housings weigh 16 lbs. NC housing with EM weighs 24.5 lbs.

WARRANTY

Based on IESNA LM80-2008, BeveLED has a 50,000 hour rated life at 70% lumen maintenance (L70). USAI Lighting Warranty covers replacement parts for 5 years from date of shipment. Ambient temperatures at fixture location should not exceed 40°C during normal operation.

CEILING CUT OUT

B4SAF Trimmed with Overlap Flange: 5-1/16" x 5-1/16" B4SAL Trimless Spackle-in: 5-1/2" x 5-1/2" B4SAM Millwork Knife-edge: 4-15/16" x 4-15/16"

LISTINGS

Dry/Damp/Wet location. AC and AB trim finishes are dry/damp only. UL2043 rated for use in air handling plenums. NRTL/CSA-US tested to UL standards.



NOTES

• Not for use in corrosive environment · Use of pressure washer voids warranty

PHOTOMETRICS

Consult factory or website for IES files. Tested in accordance with IESNA LM79.

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	Project 21-12877-3 Date 6/25/2021
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_	RGB/W Saturated Color
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sixteen5hundred	
	Submitted By
	oublinitiou by
	16500 INC
	16500, INC

Catalog Number B3SA 18FC1 35 S WH WH NC1 RM CB27

DIMMING DRIVER COMPATIBILITY

SELECTION GUIDE

D23X1 AND D23X2

Туре

Notes

IMPORTANT SAFETY INSTRUCTIONS

SAVE THESE INSTRUCTIONS

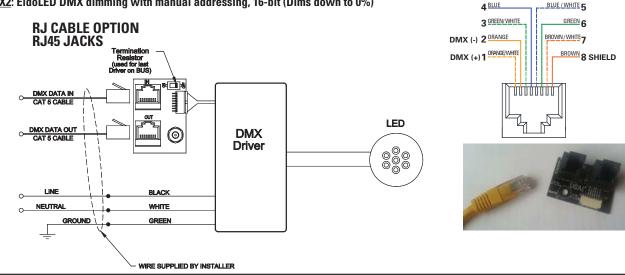
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1. Keep these instructions in a safe place for future reference.

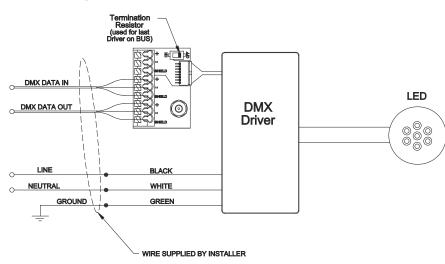
- 2. Only qualified electricians in accordance to local codes should install these fixtures.
- 3. De-energize the electrical circuit at the circuit breaker prior to installation process or servicing.

4. Make sure all connections are in accordance with the National Electrical Code and any local regulations.

<u>D23X1</u>: EldoLED DMX dimming with manual addressing, 8-bit (Dims down to 0%) <u>D23X2</u>: EldoLED DMX dimming with manual addressing, 16-bit (Dims down to 0%)



WR CABLE OPTION wire splice connection



• WR Cabling Option: cables must be spliced inside the junction box for connection. The data cable used must meet the following requirements:

- type: shielded, 2-conductor twisted pair
 maximum capacitance between conductors:
- Maximum capacitance between conductors: 30 pF/ft
- maximum capacitance between conductor and shield: 55 pF/ft
- maximum resistance: 0.02 ohms/ft
- normal impedance: 100-140 ohms
 conductive core: 24 AWG is recommended

If 3-wire data cables are preferred, we suggest a Belden 9841 or equivalent cable which meets the specifications for EIA RS-485 applications. Do not use standard microphone cables: they cannot transmit DMX512 data reliably over long distances.





sixteen5hundred		Catalog Number B3SA 18FC1 35 S WH WH NC1 RM CB27
	Submitted By 16500, INC	Notes

DIMMING DRIVER COMPATIBILITY SELECTION GUIDE D23X1 AND D23X2

Туре

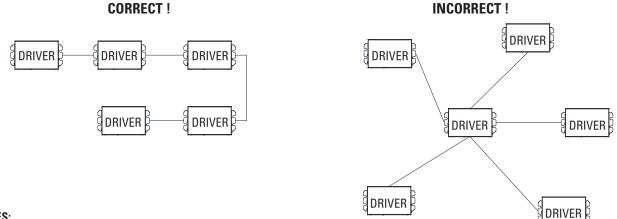
1. Keep these instructions in a safe place for future reference.

2. Only qualified electricians in accordance to local codes should install these fixtures.

3. De-energize the electrical circuit at the circuit breaker prior to installation process or servicing.

4. Make sure all connections are in accordance with the National Electrical Code and any local regulations.

DMX MUST BE DAISY CHAINED IN SINGLE LINE



NOTES:

1. DMX signal cable must NOT be run in same conduit as high voltage AC power lines.

2. Fixtures must be daisy chained in one serial line using Data in and Data out

3. Maximum of 32 DMX devices on single DMX bus

4. Maximum of 1600' serial communication link distance

5. To avoid signal loss, DMX signal terminator should be used on last Fixture in line. This is provided through a dip-switch on the DMX512 interface board.

