4.5" Round Deep Regress Downlight



Field Convertible from Trimless or Millwork to Trimmed

Trimmed - B4RCF-FC1



Trimless - B4RCL-FC1



Millwork - B4RCM-FC1





usailighting.com/infinitecolor

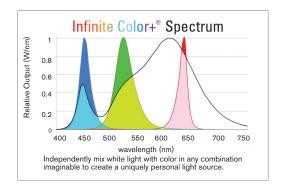
BeveLED 2.2 Infinite Color+ - Access to a wide variety of perfect architectural whites, saturated colors, neutrals, and pastels are possible with DMX controls. Infinite opportunities abound for residential, hospitality and retail lighting applications, and any project requiring full color and white light 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:	50	44					
Delivered Lumens:	1125	1400					



USAILighting

4.5" Round Deep Regress Downlight with Integral Driver

Specify fixture part number

B4RC_	32FC1		SF				UNV			
BeveLED Trim Style	Wattage Options	Beam Options	Lens Options	Bevel Trim Finish Options	*Flange/ Millwork Collar Finish	Housing Options	Universal Voltage Option	Dimming Driver Options	Cabling Options Select one	Accessories (Optional)
F Trimmed	32FC1 32W LED	50 50° beam	SF Solite	WH White	WH White	NC New	UNV 120V-277V	D23X1 EldoLED DMX 0.1%	RJ RJ45 Jacks	CB27 27" C-Channel Bar
with Flange (use with all materials)	ge all 70° ho	70 70° beam	Frosted	SC Conduit Silver	SC Conduit Silver	Construction All-in-One NCSM New Construction Narrow Width NCCP Chicago Plenum NCIC Insulation Contact Rated / Airtight		dimming, manual addressing using RDM protocol, 8 bit D23X2 EldoLED DMX 0.1% dimming, manual addressing using RDM protocol, 16 bit	WR Manual Wire Splice Connection	CB52 52" C-Channel Ban
L				GR Grey	GR Grey					EM Emergency battery
Spackle-in (use with				BL Black	BL Black					(available with NC housing only)
sheetrock and plaster				BZ Bronze	BZ Bronze					
only) M Millwork				PR Primer Finish	PR Primer Finish					
Knife-Edge (use with wood and				AC Clear Matte Anodized	AC Clear Matte Anodized					
stone)	ne)				WH White					
					GR Grey					
					BL Black					
				AB Piano Gloss Black	AB Piano Gloss Black					
TRIM FINISH OPTIONS				WH White						
					GR Grey					
VA/In:ta-		Plea			BL Black					
White	Grey	Blac	SK	RAL Custom Color Specify RAL #	RAL Custom Color Specify RAL #					
		AL Cu	stom RAL							

USAI LIGHTING HEADQUARTERS

USAI[®] Lighting

4.5" Round Deep Regress Downlight with Remote Driver

1. Specify fixture part number

B4RC_	32FC1		SF				RM		USAI
BeveLED Trim Style	Wattage Options	Beam Options	Lens Options	Bevel Trim Finish Options	*Flange/ Millwork Collar Finish	Housing Options	Remote Dimming Driver	Accessories (Optional)	Power
F Trimmed	32FC1 32W LED	50 50° beam	SF Solite	WH White	WH White	NC New	RM Remote Dimming	CB27 27" C-Channel	Supply
with Flange (use with all materials)	70	70 70° beam	Frosted	SC Conduit Silver	SC Conduit Silver	Construction All-in-One NCSM New Construction Narrow Width NCCP Chicago Plenum NCIC Insulation Contact Rated / Airtight	Driver, specify remote power supply in table below	Bars CB52 52* C-Channel Bars	Supply Must Be Specified
L Trimless				GR Grey	GR Grey				Specified
Spackle-in (use with				BL Black	BL Black				Specified
sheetrock and plaster only)				BZ Bronze	BZ Bronze				
M Millwork				AC AC	PR Primer Finish				
Knife-Edge (use with wood and					Clear Matte				
stone)					WH White				
					GR Grey				
					BL Black				
				AB Piano Gloss Black	AB Piano Gloss Black				
TRIM FINISH OPTIONS					WH White				
					GR Grey				
White	Crow	Blac	rk.		BL Black				
VALIE	Grey	Diac		RAL Custom Color Specify RAL #	RAL Custom Color Specify RAL #				
Bronze	Custom R (example)		stom RAL ample)		*Leave blank for Trimless				
Custom colo	rs and primer	finish also a	vailable						

2. Specify Remote Power Supply -

RPC-01 Remote Power Supply	32FC1 Fixture Wattage	UNV Voltage	Remot	e 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
	I			s remote enclosure by others, n size 9 "L x 4"W x 2"H	Splice Connection

NOTE: Remote Power Supplies Require Enclosures by Others. See Page 7 for Details.

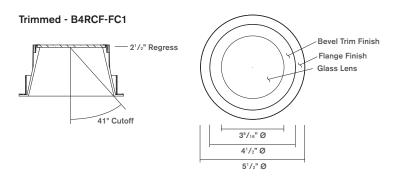
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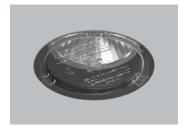
4.5" Round Deep Regress Downlight



Trimmed - B4RCF-FC1

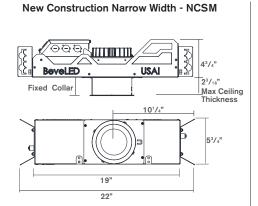
TRIM DETAILS

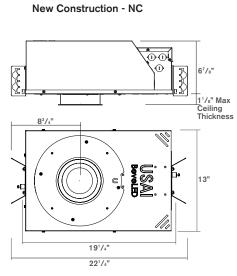


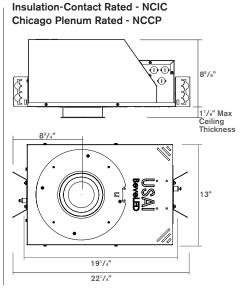


Clear acrylic overspray protector provided standard with every housing to keep out dust and contaminants during construction. Allows for use as work light.

HOUSING OPTIONS







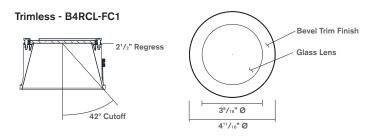
845-565-8500

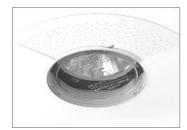
4.5" Round Deep Regress Downlight



Trimless - B4RCL-FC1

TRIM DETAILS

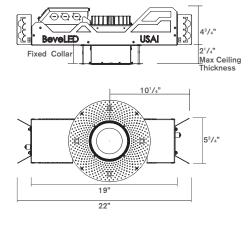




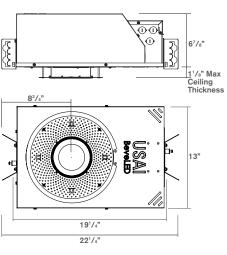
Clear acrylic overspray protector provided standard with every housing to keep out dust and contaminants during construction. Allows for use as work light.

HOUSING OPTIONS

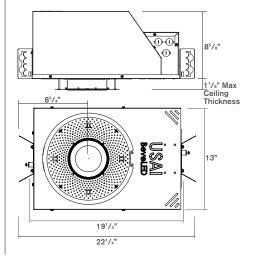
New Construction Narrow Width - NCSM



New Construction - NC



Insulation-Contact Rated - NCIC Chicago Plenum Rated - NCCP



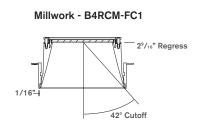
showroom@usailighting.com

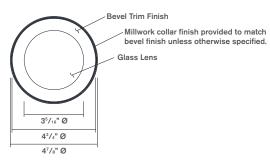
4.5" Round Deep Regress Downlight



Millwork - B4SCM-FC1

TRIM DETAILS



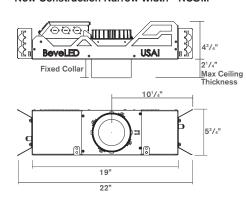


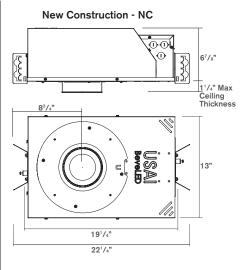


Clear acrylic overspray protector provided standard with every housing to keep out dust and contaminants during construction. Allows for use as work light.

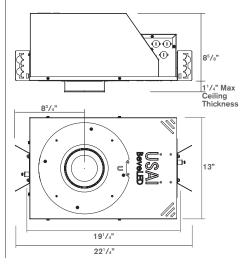
HOUSING OPTIONS

New Construction Narrow Width - NCSM





Insulation-Contact Rated - NCIC Chicago Plenum Rated - NCCP



4.5" Round Deep Regress Downlight



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.

FIELD REPLACEABLE INTEGRAL DRIVER

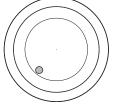
Solid state electronic constant current DMX512 driver with a high power factor provided standard. Works with universal voltages 120V-277V.

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 integral test switch 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.





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

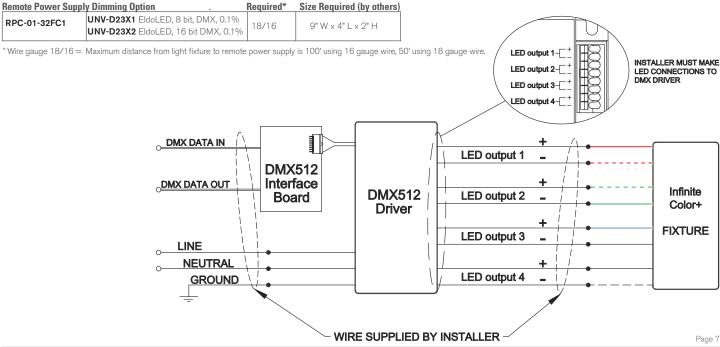
REMOTE LOCATION DRIVER

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.

Wire Gauge Minimum Enclosure

1 Fixture Maximum Per Power Supply.



4.5" Round Deep Regress Downlight



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/ftnormal 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. 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

B4RCF overlap flange fixtures are designed for use in sheetrock, acoustical ceiling tile, and many other ceiling materials. B4RCL trimless fixtures are provided with a spackle collar and are designed for use in sheetrock/mud-in ceiling applications. B4RCM 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

B4RCF Trimmed with Overlap Flange: 5-1/16" Ø B4RCL Trimless Spackle-in: 5-1/2" Ø B4RCM Millwork Knife-edge: 4-15/16" Ø

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. IBEW union made.

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.

Page

USAI LIGHTING COLLABORATORY

USAI* Lighting Infinite Color+°

DIMMING DRIVER COMPATIBILITY SELECTION GUIDE D23X1 AND D23X2

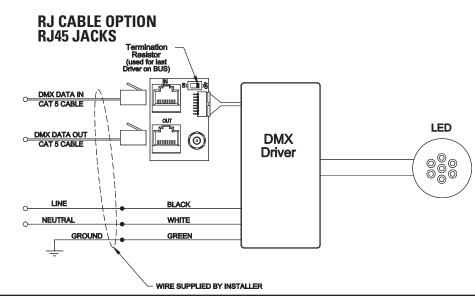
IMPORTANT SAFETY INSTRUCTIONS

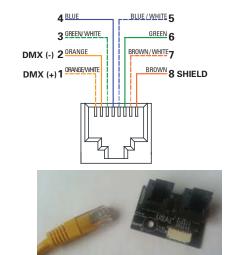
SAVE THESE INSTRUCTIONS

- 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.

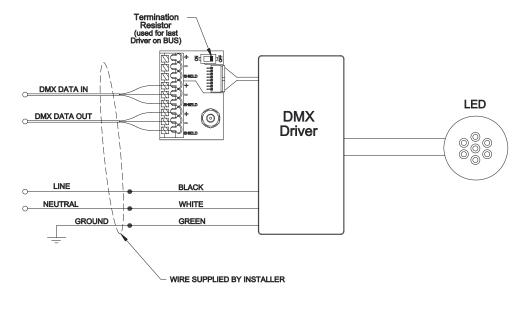
<u>D23X1</u>: EldoLED DMX dimming with manual addressing, 8-bit (Dims down to 0%)

D23X2: 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: 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.





USAI Lighting Infinite Color+

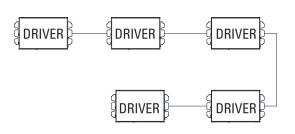
IMPORTANT SAFETY INSTRUCTIONS

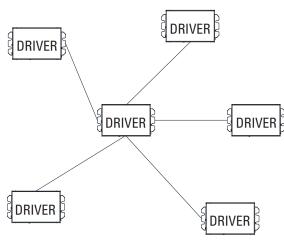
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- 4. Make sure all connections are in accordance with the National Electrical Code and any local regulations.

DMX MUST BE DAISY CHAINED IN SINGLE LINE

CORRECT! INCORRECT!





DIMMING DRIVER COMPATIBILITY

SELECTION GUIDE

D23X1 AND D23X2

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.

