BeveLED Mini® Infinite Color+® - B3SA-FC1
3” Square Adjustable

Field Convertible from Trimless or Millwork to Trimmed

Trimmed - B3SAF-FC1

Trimless - B3SAL-FC1

Millwork - B3SAM-FC1

BeveLED Mini Infinite Color+® - the smallest member of our iconic BeveLED family to offer full color + tunable white light flexibility. 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

ADJUSTABLE PERFORMANCE DATA

<table>
<thead>
<tr>
<th>DELIVERED PERFORMANCE:</th>
<th>Infinite Color+</th>
<th>Multi Channel Output</th>
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</thead>
<tbody>
<tr>
<td>Wattage</td>
<td>17W (White Light Only)</td>
<td>18W</td>
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<tr>
<td>Source Lumens</td>
<td>1100</td>
<td>1200</td>
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<tr>
<td>Lumens Per Watt</td>
<td>36</td>
<td>38</td>
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<tr>
<td>Delivered Lumens</td>
<td>625</td>
<td>675</td>
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usailighting.com/infinitecolormini

Independently mix white light with color in any combination imaginable to create a uniquely personal light source.

Infinite Color+® Spectrum

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## BeveLED Mini® Infinite Color+® - B3SA-FC1
### 3” Square Adjustable

1. Specify fixture part number and options.

<table>
<thead>
<tr>
<th>BeveLED Trim Style</th>
<th>Wattage Options</th>
<th>Beam Options</th>
<th>Lens Options</th>
<th>Bevel Trim Finish Options</th>
<th>Housing Options</th>
<th>Remote Dimming Driver Options</th>
<th>Accessories (Optional)</th>
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<tbody>
<tr>
<td>F</td>
<td>18FC1 18W LED</td>
<td>35 35° beam</td>
<td>S Solite</td>
<td>WH White</td>
<td>WH White</td>
<td>FTA Flat Adjustable Housing</td>
<td>CB27 27” C-Channel Bars</td>
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<td></td>
<td>SC Conduit Silver</td>
<td>SC Conduit Silver</td>
<td>NC1 New Construction All-in-One</td>
<td>CB52 52” C-Channel Bars</td>
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<td>GR Grey</td>
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<td>NCCP Chicago Plenum</td>
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<td>BL Black</td>
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<td>NCIC Insulation Rated / Airtight</td>
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<td>BZ Bronze</td>
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<td>PR Primer Finish</td>
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</tbody>
</table>

**TRIM FINISH OPTIONS**

- White
- Grey
- Black
- Bronze
- Custom RAL (example)
- Custom RAL (example)

Custom colors and primer finish also available

### 2. Specify Remote Power Supply

<table>
<thead>
<tr>
<th>Remote Power Supply</th>
<th>Fixture Wattage</th>
<th>Voltage</th>
<th>Remote Dimming Driver Type*</th>
<th>Cabling Option</th>
</tr>
</thead>
<tbody>
<tr>
<td>RPB-01</td>
<td>18FC1 18W LED</td>
<td>UNV 120V - 277V</td>
<td>D23X1 EldoLED DMX 0.1% dimming, manual addressing using RDM protocol, 8 bit</td>
<td>RJ RJ45 Jacks</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>D23X2 EldoLED DMX 0.1% dimming, manual addressing using RDM protocol, 16 bit</td>
<td>WR Manual Wire Splice Connection</td>
</tr>
</tbody>
</table>

*Requires remote enclosure by others, minimum size 9”L x 4”W x 2”H

**NOTE:** Remote Power Supplies Require Enclosures by Others. See Page 6 for Details.
BeveLED Mini® Infinite Color+® - B3SA-FC1
3” Square Adjustable

Trimmed - B3SAF-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

Flat Adjustable Housing - FTA

New Construction Housing - NC1
Insulation-Contact Rated - NCIC
Chicago Plenum Rated - NCCP

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Revised 05/05/2020
BeveLED Mini® Infinite Color+® - B3SA-FC1
3” Square Adjustable

TRIM DETAILS

Trimless - B3SAL-FC1

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

Flat Adjustable Housing - FTA

New Construction Housing - NC1
Insulation-Contact Rated - NCIC
Chicago Plenum Rated - NCCP

Clear acrylic overspray protector provided standard with every housing to keep out dust and contaminants during construction. Allows for use as work light.
**BeveLED Mini® Infinite Color+® - B3SA-FC1**

**3” Square Adjustable**

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**Millwork - B3SAM-FC1**

**TRIM DETAILS**

Millwork - B3SAM-FC1

1” Regress

Bevel Trim Finish

Millwork collar finish provided to match bevel finish unless otherwise specified.

Glass Lens

3 3/4” SQ.

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**

**Flat Adjustable Housing - FTA**

1 1/2” Max Ceiling Thickness

**New Construction Housing - NC1**

Insulation-Contact Rated - NCIC

Chicago Plenum Rated - NCCP

5 1/4”

1 1/2” Max Ceiling Thickness

6 1/4”

10 1/4”

10 1/4” (Plan View)

14 1/4” (Plan View)

18 3/4” (Plan View)
BEVELED MINI INFINITE COLOR+ SPECIFICATIONS

FIELD REPLACEABLE LED LIGHT ENGINE

is serviceable through the aperture with a Philips screwdriver. All USAI Lighting light engines feature industry-leading color consistency.

REMOTE LOCATION DRIVER

BeveLED Mini Infinite Color+ is supplied with quick connects 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. 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 “A” below.

CABLING: Data cables must be run in series between fixtures. Choose your preferred method of connection when specifying. To avoid signal transmission problems, a DMX link terminator 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

NOTE: 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.

<table>
<thead>
<tr>
<th>Remote Power Supply Dimming Option</th>
<th>Wire Gauge Required*</th>
<th>Minimum Enclosure Size Required (by others)</th>
</tr>
</thead>
<tbody>
<tr>
<td>RPB-01-18FC1</td>
<td>18/16</td>
<td>9” W x 4” L x 2” H</td>
</tr>
</tbody>
</table>

* Wire gauge 18/16 = Maximum distance from light fixture to remote power supply is 100’ using 16 gauge wire, 50’ using 18 gauge wire.
HOUSING
All BeveLED Mini fixtures are field-flexible which allows for field changes from trimless or millwork to trimmed with a simple components change with parts from USAI. Housings are fabricated of 20 ga. steel construction and are supplied with quick connects and wire connections for use with remotely located driver. Driver is provided separately for remote location on site, enclosure to be provided by others.

MOUNTING
B3SAF overlap flange fixtures are designed for use in sheetrock, acoustical ceiling tile, and many other ceiling materials. B3SAL trimless fixtures are provided with a spackle collar and are designed for use in sheetrock/mud-in ceiling applications. B3SAM 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
FTA housing weighs 10 lbs. NC1, NCIC, and NCCP housings weigh 11 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
B3SAF Trimmed with Overlap Flange: 3-1/2" x 3-1/2"
B3SAL Trimless Spackle-in: 4-1/16" x 4-1/16"
B3SAM Millwork Knife-edge: 3-3/8" x 3-3/8"

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.
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.

D23X1: 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 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.
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DMX MUST BE DAISY CHAINED IN SINGLE LINE

**CORRECT!**

![Diagram of correct daisy chain configuration]

**INCORRECT!**

![Diagram of incorrect daisy chain configuration]

NOTES:

1. Maximum distance from light fixture to remote power supply is 100’ using 16 gauge wire, 50’ using 18 gauge wire.
2. Minimum enclosure size required is 9”W x 4”L x 2”H. Enclosure supplied by others.
3. Remote Power Supplies can only be used with specific fixture types. Confirm power supply compatibility on light fixture label.
4. DMX signal cable must NOT be run in same conduit as high voltage AC power lines.
5. Remote Power Supplies must be daisy chained in one serial line using Data in and Data out.
7. Maximum of 1600’ serial communication link distance.
8. To avoid signal loss, DMX signal terminator should be used on last Remote Power Supply in line. This is provided through a dip-switch on the DMX512 interface board.

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