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

USAI LIGHTING COLLABORATORY
13 Crosby Street
New York, NY 10013
845-234-4090
showroom@usailighting.com

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

© 2018, USAI, LLC. All rights reserved.
All designs protected by copyright.
Covered by US Patents: 4,778,453, 9,671,091 and 7,832,889.
Patents pending. USAI, BeveLED Mini and Infinite Color+ are registered trademarks of USAI, LLC.
Revised 10/26/2018

Infinite Color+® - B3SA-FC1

Infinite Color+® Spectrum

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

ADJUSTABLE PERFORMANCE DATA

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

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 Type*</th>
<th>Accessories (Optional)</th>
</tr>
</thead>
<tbody>
<tr>
<td>F</td>
<td>18FC1</td>
<td>35</td>
<td>S</td>
<td>WH, White</td>
<td>WH, White</td>
<td>RPB-01</td>
<td>CB27</td>
</tr>
<tr>
<td>L</td>
<td>18W LED</td>
<td>35° beam</td>
<td>S</td>
<td>SC, Conduit Silver</td>
<td>SC, Conduit Silver</td>
<td>D23X1</td>
<td>CB52</td>
</tr>
<tr>
<td>M</td>
<td></td>
<td></td>
<td></td>
<td>GR, Grey</td>
<td>GR, Grey</td>
<td>EldoLED DMX 0.1% dimming, manual addressing using RDM protocol, 8 bit</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>BL, Black</td>
<td>BL, Black</td>
<td>EldoLED DMX 0.1% dimming, manual addressing using RDM protocol, 16 bit</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>BZ, Bronze</td>
<td>BZ, Bronze</td>
<td>*Leave blank for Trimless</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>PR, Primer Finish</td>
<td>PR, Primer Finish</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>AC, Clear Matte</td>
<td>AC, Clear Matte</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>AB, Piano Gloss</td>
<td>AB, Piano Gloss</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>WH, White</td>
<td>WH, White</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>GR, Grey</td>
<td>GR, Grey</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>BL, Black</td>
<td>BL, Black</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>BZ, Bronze</td>
<td>BZ, Bronze</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>RAL, Custom Color</td>
<td>RAL, Custom Color</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Specify RAL #</td>
<td>Specify RAL #</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

TRIM FINISH OPTIONS

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

Custom colors and primer finish also available

2. Specify Remote Power Supply

<table>
<thead>
<tr>
<th>Remote Power Supply</th>
<th>18FC1 Wattage</th>
<th>UNV 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>EldoLED DMX 0.1% dimming, manual addressing using RDM protocol, 8 bit</td>
<td>RJ RJ45 Jacks</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>EldoLED DMX 0.1% dimming, manual addressing using RDM protocol, 16 bit</td>
<td>WR Manual Wire Splice Connection</td>
</tr>
</tbody>
</table>

NOTE: Remote Power Supplies Require Enclosures by Others. See Page 8 for Details.

USAI LIGHTING COLLABORATORY
13 Crosby Street
New York, NY 10013
845-234-4090
showroom@usailighting.com

USAI LIGHTING HEADQUARTERS
1126 River Road
New Windsor, NY 12553
T: 845-565-8500
info@usailighting.com

© 2018. USAI, LLC. All rights reserved.
All designs protected by copyright.
Covered by US Patents: 4,778,453, 9,671,091 and 7,832,889.
Patents pending. USAI BeveLED Mini and Infinite Color+ are registered trademarks of USAI, LLC.
Revised 10/26/2018
### Trim Details

**Trimm - B3SAF-FC1**

![Beveled Trim Finish](image1)

- Bevel Trim Finish
- Glass Lens
- Flange Finish

**3” SQ**

**4” SQ**

---

### Housing Options

**Flat Adjustable Housing - FTA**

- 1” Max Ceiling Thickness

**New Construction Housing - NC1**

- Insulation-Contact Rated - NCIC
- Chicago Plenum Rated - NCCP

**5’/”**

- 1” Max Ceiling Thickness

**6’/”**

- 10’/”

---

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

---

USAI LIGHTING COLLABORATORY
13 Crosby Street
New York, NY 10013
845-234-4090
showroom@usailighting.com

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

© 2018, USAI, LLC. All rights reserved.
All designs protected by copyright.
Covered by US Patents: 4,778,453, 9,671,091 and 7,832,889.
Patents pending. USAI BeveLED Mini and Infinite Color+ are registered trademarks of USAI, LLC.
Revised 10/26/2018
BeveLED Mini® Infinite Color+® - B3SA-FC1
3” Square Adjustable

Trimless - B3SAL-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

© 2018. USAI, LLC. All rights reserved. All designs protected by copyright. Covered by US Patents: 4,778,453, 9,671,091 and 7,832,889. Patents pending. USAI, BeveLED Mini and Infinite Color+ are registered trademarks of USAI, LLC. Revised 10/26/2018
BeveLED Mini® Infinite Color+® - B3SA-FC1
3” Square Adjustable

**TRIM DETAILS**

Millwork - B3SAM-FC1

- Bevel Trim Finish
- Millwork collar finish provided to match bevel finish unless otherwise specified.
- Glass Lens

**HOUSING OPTIONS**

Flat Adjustable Housing - FTA

- 1½” Max Ceiling Thickness
- 14/8” (Plan View)
- 18½” (Plan View)

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

- 5½”
- 1½” Max Ceiling Thickness
- 6½”
- 19½”

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

Millwork collar finish provided to match bevel finish unless otherwise specified.
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.
BEVELED MINI INFINITE COLOR+ SPECIFICATIONS

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.
**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.

**DMX MUST BE DAISY CHAINED IN SINGLE LINE**

**CORRECT !**

![Correct Wiring Diagram]

**INCORRECT !**

![Incorrect Wiring Diagram]

**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
6. Maximum of 32 DMX devices on single DMX bus
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.