**Downlight Performance Data**

<table>
<thead>
<tr>
<th>DELIVERED* PERFORMANCE:</th>
<th>LED COLOR CHOICES</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Classic White</strong></td>
<td><strong>Warm Glow Dimming</strong></td>
</tr>
<tr>
<td><strong>Source Lumens:</strong></td>
<td>1175 1825 2475</td>
</tr>
<tr>
<td><strong>Lumens Per Watt:</strong></td>
<td>105 105 101</td>
</tr>
<tr>
<td><strong>Delivered Lumens:</strong></td>
<td>950 1475 2025</td>
</tr>
</tbody>
</table>

*Based on 3000K, 80+ CRI. Performance varies for each specific beamspread and color temperature. See IES files for exact values at usailighting.

**Correlated Color Temperature Multiplier**

<table>
<thead>
<tr>
<th><strong>Classic White</strong></th>
<th>2700K</th>
<th>3000K</th>
<th>3500K</th>
<th>4000K</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color Rendering Index: 80+ 90+ 95+  95+ 80+ 90+ 95+ 80+ 90+ 95+</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multiplier for Lumen 0.96 0.81 0.70 1.00 0.86 0.74 1.03 0.88 0.79 1.06 0.81</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Beveled Mini</strong></th>
<th>2700K</th>
<th>3000K</th>
<th>3500K</th>
<th>2200K</th>
<th>2700K</th>
<th>3000K</th>
<th>3500K</th>
<th>4000K</th>
<th>5000K</th>
<th>6000K</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color Rendering Index: 80+ 90+ 90+ 90+ 80+ 80+ 80+ 80+ 80+ 80+ 80+</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multiplier for Lumen 1.00 0.78 1.00 0.83 1.05 0.92 0.97 1.00 1.03 1.05 1.10 1.13</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
# BeveLED Mini® for WoodWorks® Horizontal Slats - B3SDM-UA

## 3” Square Downlight with Integral Driver

Specify fixture part number. (All boxes must be filled in to correctly order)

**HOW TO SPECIFY**

### 3" Square Downlight with Integral Driver

- **BeveLED Trim Style**: 09X3, 15X3, 20X3
- **Wattage Options**: 9W LED, 15W LED, 20W LED
- **LED Color Options**: 27K5, 27K6, 30K5, 30K6, 40K5, 40K6
- **Beam Options**: 40° beam, 55° beam, 65° beam
- **Lens Options**: White, Conduit Silver, Black, Conduit Bronze, Frosted, Frosted
- **Bevel Trim Finish Options**: BL, BL, BL, BL, BL, BL
- **Voltage Options**: 120V-277V, 120V-277V, 120V-277V, 120V-277V, 120V-277V, 120V-277V
- **Dimming Driver Options**: D22, D22, D22, D22, D22, D22
- **Grid Mounting Type**: UA2, UA2, UA2, UA2, UA2, UA2
- **Emergency Accessories**: EM, EM, EM, EM, EM, EM

### Options

- **Wattage**: 18W LED, 20W LED, 15W LED
- **Color Select**: Tunable White, Color Select, Color Select, Color Select, Color Select, Color Select
- **Beam**: 40° beam, 55° beam, 65° beam
- **Lens**: White, Conduit Silver, Black, Conduit Bronze, Frosted, Frosted
- **Bevel Trim Finish**: BL, BL, BL, BL, BL, BL
- **Voltage Options**: 120V-277V, 120V-277V, 120V-277V, 120V-277V, 120V-277V, 120V-277V
- **Dimming Driver Options**: D22, D22, D22, D22, D22, D22
- **Grid Mounting Type**: UA2, UA2, UA2, UA2, UA2, UA2
- **Emergency Accessories**: EM, EM, EM, EM, EM, EM

### Notes:

1. Not available for Warm Glow.
2. Not available for Color Select.
3. Not available with 9W.
4. Not available with FT housing.
5. Not available with 347V. NC1 housing only.

### TRIM FINISH OPTIONS

- **White**
- **Conduit Silver**
- **Grey**
- **Black**
- **Bronze**
- **Piano Gloss Black**
- **Custom RAL**

---

**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  F: 845-561-1130  
info@usailighting.com

© 2020 USAI, LLC. All rights reserved.  
All designs protected by copyright. Covered by US Patents: 8,581,520, 8,456,109, 8,742,269, 9,671,091.  
Patents pending USAI, BeveLED Mini clean White, Warm Glow Dimming and Color Select are registered trademarks of USAI, LLC.  
Armstrong®, the Armstrong logo, BioAcoustic®, and WoodWorks® are trademarks of AWI Licensing LLC.
3. Specify Remote Power Supply

Remote Power Supply

**Beveled Mini® for WoodWorks® Horizontal Slats - B3SDM-UA**

**3” Square Downlight with Remote Driver**

1. Specify fixture part number. (All boxes must be filled in to correctly order)

<table>
<thead>
<tr>
<th>B3SDM</th>
<th>Bevel Trim Options</th>
<th>Wattage Options</th>
<th>LED Color Options</th>
<th>Beam Options</th>
<th>Lens Options</th>
<th>Bevel Trim Options</th>
<th>Millwork Collar Finish*</th>
<th>Housing Options</th>
<th>Remote Dimming Driver</th>
<th>Grid Mounting Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Classic White Light</td>
<td>09X3 9W LED</td>
<td>27KS</td>
<td>2700K, 80+ CRI</td>
<td>40 40° beam</td>
<td>S Solite (provided standard)</td>
<td>WH White</td>
<td>FT-LB Flat housing for WoodWorks® Grille Solid Wood ceiling panels 8176</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>15X3 15W LED</td>
<td>27KH</td>
<td>2700K, 90+ CRI</td>
<td>55 55° beam</td>
<td>SC Conduit Silver</td>
<td>BL Black</td>
<td>FT-MB Flat housing for WoodWorks® Linear Solid Wood ceiling panels 8176</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>20X3 20W LED</td>
<td>27KU</td>
<td>2900K, 95+ CRI</td>
<td>65 65° beam</td>
<td>FR Frosted</td>
<td>BR Bronze</td>
<td>FTA-SB Flat adjustable housing for WoodWorks® Grille Tegular or Linear Solid Wood ceiling panels</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>09X3 9W LED</td>
<td>30KS</td>
<td>3000K, 80+ CRI</td>
<td>40 40° beam</td>
<td>SF Solite Frosted</td>
<td>BF Borosilicate Frosted</td>
<td>NC1-SB New construction All-in-One housing for WoodWorks® Grille Tegular or Linear Solid Wood ceiling panels</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>15X3 15W LED</td>
<td>30KH</td>
<td>3000K, 90+ CRI</td>
<td>55 55° beam</td>
<td>BL Black</td>
<td>BF Borosilicate Frosted</td>
<td>NCCP-SB Chicago Plenum housing for WoodWorks® Grille Tegular or Linear Solid Wood ceiling panels</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>20X3 20W LED</td>
<td>30KU</td>
<td>3000K, 95+ CRI</td>
<td>65 65° beam</td>
<td>BR Bronze</td>
<td>BF Borosilicate Frosted</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>09X3 9W LED</td>
<td>35KS</td>
<td>3500K, 80+ CRI</td>
<td>40 40° beam</td>
<td>PR Primer Finish</td>
<td>AB Piano Gloss Black</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>15X3 15W LED</td>
<td>35KH</td>
<td>3500K, 90+ CRI</td>
<td>55 55° beam</td>
<td>GQ Antimicrobial Paint, White</td>
<td>RAL Custom Color Specify RAL 6</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>20X3 20W LED</td>
<td>35KU</td>
<td>3500K, 95+ CRI</td>
<td>65 65° beam</td>
<td>OQ Antimicrobial Paint, Silver</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>09X3 9W LED</td>
<td>40KS</td>
<td>4000K, 80+ CRI</td>
<td>45 45° beam</td>
<td>QZ Antimicrobial Paint, Bronze</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>15X3 15W LED</td>
<td>40KH</td>
<td>4000K, 90+ CRI</td>
<td>55 55° beam</td>
<td>OL Antimicrobial Paint, Black</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>20X3 20W LED</td>
<td>40KU</td>
<td>4000K, 95+ CRI</td>
<td>65 65° beam</td>
<td>AC Clear Matte Anodized</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Warm Glow Dimming**

<table>
<thead>
<tr>
<th>RPB-01</th>
<th>Remote Power Supply</th>
<th>Wattage Options</th>
<th>Voltage</th>
<th>Remote Dimming Type and Level</th>
<th>Remote Emergency Option</th>
</tr>
</thead>
<tbody>
<tr>
<td>Classic White</td>
<td>09X3 9W LED</td>
<td>UVN 120V - 277V</td>
<td>D4A Lutron ECO, 0.1% (1)</td>
<td>EM7 EM battery requires remote enclosure by others, minimum size 14.5&quot; L x 6.5&quot; W x 3&quot; H</td>
<td></td>
</tr>
<tr>
<td>15X3 15W LED</td>
<td>15W2 15W LED</td>
<td>2722KS 2700K-2200K, 80+ CRI</td>
<td>D4H Lutron H ECO, 1% Fade (1, 2)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>20X3 20W LED</td>
<td>20W2 20W LED</td>
<td>322KS 3000K-2200K, 80+ CRI</td>
<td>D4P Lutron ECO, 1%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>15W2 15W LED</td>
<td>15W2 15W LED</td>
<td>302KS 3000K-2200K, 80+ CRI</td>
<td>D6A EldoLED 0-10V, 0.1%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>20W2 20W LED</td>
<td>20W2 20W LED</td>
<td>3022KS 3000K-2200K, 80+ CRI</td>
<td>D6B EldoLED 0-10V, 0.1%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>09X3 9W LED</td>
<td>35W2 35W2 35W2</td>
<td>3022KS 3000K-2200K, 80+ CRI</td>
<td>D6E EldoLED 0-10V, 1%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>15X3 15W LED</td>
<td>35W2 35W2 35W2</td>
<td>3022KH 3000K-2200K, 80+ CRI</td>
<td>D6F EldoLED 0-10V, 1%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>20X3 20W LED</td>
<td>35W2 35W2 35W2</td>
<td>3022KH 3000K-2200K, 80+ CRI</td>
<td>D7 EldoLED DALI, 0.1%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>09X3 9W LED</td>
<td>35W2 35W2 35W2</td>
<td>35W2 3500K-2200K, 80+ CRI</td>
<td>D18 Moons DMX, 0.1% (2)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>15X3 15W LED</td>
<td>35W2 35W2 35W2</td>
<td>35W2 3500K-2200K, 80+ CRI</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>20X3 20W LED</td>
<td>35W2 35W2 35W2</td>
<td>35W2 3500K-2200K, 80+ CRI</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>09X3 9W LED</td>
<td>35W2 35W2 35W2</td>
<td>35W2 3500K-2200K, 80+ CRI</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

** feasibilities**

**Remote Emergency Option**

<table>
<thead>
<tr>
<th>Remote Emergency Option</th>
</tr>
</thead>
<tbody>
<tr>
<td>EM7 EM battery requires remote enclosure by others, minimum size 14.5&quot; L x 6.5&quot; W x 3&quot; H</td>
</tr>
</tbody>
</table>

**NOTE:** Remote Power Supplies Require Enclosures by Others. See Page 6 for Details.
**TRIM DETAILS**

**Millwork - B3SDM**

For use with grid-mounted wood panel ceiling systems such as WoodWorks®

**HOUSING OPTIONS**

**Flat Housing: FT-MB**
for for WoodWorks® Linear Solid Wood ceiling panels
8176

- 4½"
- 1¼" Max Ceiling Thickness

**Flat Housing: FT-LB**
for for WoodWorks® Grille Tegular ceiling panels
662808, 663008, 662812, and 663012

- 3½"
- 1¼" Max Ceiling Thickness

**Flat Adjustable Housing: FTA-SB**
for for WoodWorks® Grille Tegular or Linear Solid Wood ceiling panels

- 5½"
- 1¼" Max Ceiling Thickness

**New Construction Housing: NC1-SB**
Chicago Plenum Rated: NCCP-SB
for for WoodWorks® Grille Tegular or Linear Solid Wood ceiling panels

- 6½"
- 1½" Max Ceiling Thickness

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

Below Ceiling Drawings - Integration With Armstrong® WoodWorks® Ceilings

WoodWorks® Linear Wood Panel Horizontal Slats
Armstrong® PN: 8176
Description: 3.25” slats
Light fixture installation must be coordinated with the ceiling installer to ensure accessibility.
* Install with Armstrong® BioAcoustic™ Infill panel #6657 to obscure through-slat views to light fixture housing

FT-MB
4.25”
24”
7.25”
Clearance height above finished height of ceiling plane is required for light fixture housing installation

FTA-SB
5.30”
24”
8.3”
Clearance height above finished height of ceiling plane is required for light fixture housing installation

NC1-SB & NCCP-SB
6.75”
24”
9.75”
Clearance height above finished height of ceiling plane is required for light fixture housing installation

WoodWorks® Grille Tegular Horizontal Slats
Armstrong® PN: 662808, 663008, 662812, 663012
Description: 1.5” slats
Light fixture installation must be coordinated with the ceiling installer to ensure accessibility.
* Install with Armstrong® BioAcoustic™ Infill panel #5823 to obscure through-slat views to light fixture housing

FT-LB
3.20”
24”
5.3/8”
Clearance height above finished height of ceiling plane is required for light fixture housing installation

FTA-SB
5.30”
24”
7.3/8”
Clearance height above finished height of ceiling plane is required for light fixture housing installation

NC1-SB & NCCP-SB
6.75”
24”
8.7/8”
Clearance height above finished height of ceiling plane is required for light fixture housing installation
FIELD REPLACEABLE LED LIGHT ENGINE
is serviceable through the aperture with a Phillips screwdriver. All USAI Lighting light engines feature industry-leading color consistency.

FIELD REPLACEABLE INTEGRAL DRIVER
Unless otherwise specified, a 0-10V, 100%-1% solid state electronic constant current integral D22 dimming driver with a high power factor is provided standard and sources 2mA. All integral dimming drivers are located within the fixture housing and are serviceable from below the ceiling through the aperture. Some on-time delay may be experienced depending on control system used. All dimming drivers comply with IEEE C62.41 surge protection.

INTEGRAL EMERGENCY BATTERY
An integral emergency battery pack is available as an option with the NC1 housing and integral driver/power supply only. IOTA emergency battery provides backup power for 90 minutes. NC1 fixtures are provided with an integral emergency battery that requires above ceiling access for service, and a remote test switch, which comes with a 24” lead length for location of the test switch. Remote EM test switch is dry/damp only; select EMW emergency option for a wet location-rated EM test switch. Fixtures that have no USAI EM option may be connected to an inverter (by others) for emergency lighting. Battery is not available with 347V.

REMOTE LOCATION DRIVER
BeveLED Mini 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. 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 Diagram
closure sizes and wire gauge with 1 fixture per power supply.

Remote Power Supply Dimming Option | Wire Gauge Required* | RP Only | RP with EM Option**
--- | --- | --- | ---
UNV-D4A | Lutron ECO, 0.1% (1) | 14/12 | 6.25" W x 4" L x 3" H
UNV-D4E | Lutron 5 ECO, 5% (1, 2) | 14/12 | 6.25" W x 4" L x 3" H
UNV-D4H | Lutron H ECO, 1% fade (1, 2) | 14/12 | 6.25" W x 4" L x 3" H
UNV-D4P | Lutron ECO, 1% | 14/12 | 6.25" W x 4" L x 3" H
UNV-D6A | EldoLED 0-10V, 0.1% | 14/12 | 6.25" W x 4" L x 3" H
UNV-D6B | EldoLED 0-10V, 0.1% | 14/12 | 6.25" W x 4" L x 3" H
UNV-D6E | EldoLED 0-10V, 0% | 14/12 | 6.25" W x 4" L x 3" H
UNV-D6F | EldoLED 0-10V, 0% | 14/12 | 6.25" W x 4" L x 3" H
UNV-D7 | EldoLED DALI, 0.1% | 14/12 | 6.25" W x 4" L x 3" H
UNV-D18 | Moons DMX, 0.1% (2) | 14/12 | 6.25" W x 4" L x 3" H
120V-D3 | Lutron 2-wire phase, 1% | 14/12 | 14/12
120V-D19 | Lutron 2-wire phase, 1% (1) | 14/12 | 14/12

1 Not available for Warm Glow
2 Not available for 9W

Not all dimming options are available with all LED light engine options. See RP ordering table for details.

* Wire gauge 14/12 = Maximum distance from light fixture to remote power supply is 100’ using 12 gauge wire, 50’ using 14 gauge wire.

** Emergency battery remote power supplies cannot be located any more than 50 feet from light fixture.

Note: All light fixtures must be wired in homeruns per wiring diagram below.
MOUNTING
USAI Lighting BeveLED Mini UA light fixtures are specifically designed for use with WoodWorks ceilings by Armstrong Ceiling Solutions. USAI fixture housings are provided with uniquely sized and patent-pending adjustable mounting brackets which accommodate extendable mounting bars. Standard mounting brackets provided are 5.5” tall and can be used with any USAI Lighting fixture housing. If specified, medium height mounting brackets (4.25”) or low height mounting brackets (3.25” tall) can be specified for use with FT housings only and specific ceilings by Armstrong®. Mounting bars are required to install the light fixture and are not optional. UA2 extendable bars are provided standard and work with most Armstrong® tee-grid ceiling suspension systems from 16” – 24” spacings. Finished installations are seismically rated. Consult local codes for independent tie-ins.

FIXTURE WEIGHT
FT housing weighs 4 lbs. FTA housing weighs 10 lbs. NC1 and NCCP housings weigh 11 lbs. NC1 housing with EM weighs 14 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.

INFILL PANEL
BioAcoustic™ Infill panel accessory is optionally available from Armstrong® Ceiling Solutions to complete the installation. See integration page drawings for specific infill product part number for each ceiling type. USAI Lighting provides a cutout template for each light fixture to ensure the material is cut to the correct size to frame light fixture aperture within ceiling panel.

LISTINGS
Dry/Damp/Wet location. AC and AB trim finishes are dry/damp only. EM test switch is dry/damp only. Select EMW option for wet location remote test switch. 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.