BSS420 | WAKE™ RECESSED SLOT LED
Narrow, extruded aluminum, 2” aperture, recessed slot, LED light

**SPECIFICATIONS**

Fixture housing and trim elements made of extruded aluminum and 16 ga. sheet aluminum and steel parts

Model options available for typical 9/16” and 15/16” grid ceilings or hard walls/ceilings with flange and trimless mounting (wall installation requires accessory mounting brackets)

Basic continuous run fixtures provided with 18 ga. wiring harness for 6 Amp maximum load (consult factory for runs requiring multiple circuits, sensor integration, etc.)

Lens options include frosted acrylic flush fit, 1” drop style with lensed ends or a parabolic louver

Standard integral 120-277V driver offered with 0-10V dimming or non-dim (other dimming driver options available)

Integral 120-277V emergency battery backup available for 44”-88” fixtures (supplied with remote test switch/indicator plate assembly)

Standard light outputs range from 450 – 830 lumens per foot

LEDs available in 2700K, 3000K, 3500K, and 4000K, within a 3 step MacAdam ellipse, all with 90+ CRI typical

Life: 50,000 hours L70

Chicago plenum rated option available

Nominal weight is 2.8 lbs. per foot

Limited five year warranty

UL and C-UL listed for dry and damp locations

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**FEATURES**

A member of the Wake series, the BSS420 is a recessed, extruded aluminum linear LED luminaire with 2” wide aperture. Single and continuous run fixtures are available for installation in common grid ceilings or in hard walls and ceilings with flange and trimless variants. Flush or 1” drop frosted acrylic lens options are offered for all mounting configurations.

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**SECTIONS**

T1: T-grid 9/16”
T2: T-grid 15/16”
FT: Flange (drop lens option shown)
TL: Trimless (flush lens option shown)

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**PERFORMANCE**

**NOMINAL LENGTH**

<table>
<thead>
<tr>
<th>OPTIC CONFIGURATION</th>
<th>OUTPUT</th>
<th>LUMENS/FT.</th>
<th>WATTS/FT.</th>
<th>LUMINAIRE LUMENS</th>
<th>EFFICACY (LPW)</th>
</tr>
</thead>
<tbody>
<tr>
<td>FLUSH</td>
<td>L: low</td>
<td>450</td>
<td>5.5</td>
<td>1666</td>
<td>79</td>
</tr>
<tr>
<td></td>
<td>R: regular</td>
<td>580</td>
<td>7.6</td>
<td>2164</td>
<td>74</td>
</tr>
<tr>
<td></td>
<td>H: high</td>
<td>670</td>
<td>10.6</td>
<td>2843</td>
<td>70</td>
</tr>
<tr>
<td>DROP</td>
<td>L: low</td>
<td>490</td>
<td>5.5</td>
<td>1809</td>
<td>86</td>
</tr>
<tr>
<td></td>
<td>R: regular</td>
<td>630</td>
<td>7.6</td>
<td>2349</td>
<td>81</td>
</tr>
<tr>
<td></td>
<td>H: high</td>
<td>830</td>
<td>10.6</td>
<td>3087</td>
<td>76</td>
</tr>
</tbody>
</table>

Note: All data reflects fixtures with 3500K LEDs

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**MOUNTING**

T1: T-grid 9/16”
T2: T-grid 15/16”
FT: Flange trim
TL: Trimless
CF: consult factory for custom mounting

**NOMINAL FIXTURE LENGTH**

22: 22”
24: 24” (T1 or T2 w/SN ONLY)
33: 33”
39: 39”
44: 44”
48: 48” (T1 or T2 w/SN ONLY)
50: 50”
55: 55”

**CORRELATED COLOR TEMPERATURE**

27: 2700K-90+ CRI
30: 3000K-90+ CRI
35: 3500K-90+ CRI
40: 4000K-90+ CRI
61: 61”
66: 66”
72: 72”
77: 77”
83: 83”
88: 88”

**DRIVER**

ND: non-dimming
D: 0-10V, 1%
HE: Lutron EcoSystem, 1%
HES: Lutron EcoSystem, soft-off fade-to-black, 1%
H2: Lutron Hi-lume 2-wire forward phase, 1%, (120V ONLY)
ES: Lutron EcoSystem S-Series, 5%
EL: eidoLED ECOdrive 0-10V, 1%

**LIGHT OUTPUT**

(lumens per foot w/drop lens)
L: low - 490
R: regular - 630
H: high - 830
CF: consult factory

**RUN CONFIGURATION**

SN: single
ST: starter
AD: adder
TR: terminator

**OPTIONS**

CP: Chicago plenum
ED: emergency driver (44”- 88” fixtures)
WS1: Wattstopper FS-205 ‡
ES1: EasySense SN102 ‡
ES2: EasySense SN200 ‡
ES3: EasySense SN300 ‡
EN1: Enlighted FS-D22 ‡
CF: consult factory for custom finish

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### MOUNTING

<table>
<thead>
<tr>
<th>ORDERING CODE</th>
<th>DESCRIPTION</th>
<th>SPECIFICATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>T1</td>
<td>T-grid ceiling 9/16&quot;</td>
<td>• 16 ga. brackets locate housing onto T-bar and allow 5/8&quot; of vertical adjustment to accommodate various height T-bar</td>
</tr>
<tr>
<td>T2</td>
<td>T-grid ceiling 15/16&quot;</td>
<td>• Housing secured with support wires (by others)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Exposed flange trim in matte white finish</td>
</tr>
</tbody>
</table>

**FT**

- Flange - drywall ceiling or wall
- • For wall installations or special ceiling conditions, order accessory mounting brackets 420-WB
- • ¾" wide extruded aluminum trim flange in matte white finish
- • Housing secured with support wires or ¼-20 threaded rod (by others)
- • For wall installations or special ceiling conditions, order accessory mounting brackets

**TL**

- Trimless - drywall ceiling or wall
- • Installs after 1/2" or 5/8" drywall
- • Housing secured with self-tapping drywall screws (by others) into blocking as required

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## LEN OPTIONS

<table>
<thead>
<tr>
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<th>DESCRIPTION</th>
<th>SPECIFICATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>F1</td>
<td>FROSTED FLUSH LENS</td>
<td>2” W frosted acrylic extrusion</td>
</tr>
<tr>
<td>F2</td>
<td>FROSTED DROP LENS</td>
<td>2” W x 1” H frosted acrylic extrusion with matching acrylic end caps</td>
</tr>
<tr>
<td>L</td>
<td>LOUVER</td>
<td>Parabolic louver with 5/8” blades at 1” spacing, formed from diffuse, high reflectance aluminum and supplied with light diffusion film</td>
</tr>
</tbody>
</table>

## OPTIONS

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</table>
| ED            | EMERGENCY LED DRIVER | • Universal 120-277V input voltage emergency driver of 10W for 90 minutes  
• Available for 44-88” fixtures  
• Provided with combination test switch/indicator light mounted to wall plate for remote installation |

Note: remote battery backup available for shorter fixture lengths - ordered separately, consult factory for details.

## INTEGRATED SENSORS

- Overall fixture length remains the same as models without a sensor. Total illuminated length is reduced by 5” nominal.
- For F1 flush lens option, sensors are mounted to flush filler piece. For F2 drop lens option, sensors are mounted to 1” H sheet formed cover.

<table>
<thead>
<tr>
<th>ORDERING CODE</th>
<th>BRAND AND MODEL</th>
<th>FUNCTIONS</th>
</tr>
</thead>
</table>
| WS1           | Wattstopper FS-205    | Occupancy and light level sensor  
For use with on/off or 0-10V dimming drivers only |
| EN1           | Enlighted FS-D22      | Occupancy, ambient light sensing, daylight harvesting, and environment monitoring for Enlighted control network  
Provided with Advance sensor ready series 0-10V dimming drivers |
| ES1           | Philips EasySense SN102 | Occupancy, daylight harvesting and task tuning sensor with simple grouping  
Provided with Advance sensor ready series 0-10V dimming drivers |
| ES2           | Philips EasySense SN200 | Occupancy, daylight harvesting and task tuning sensor with advance grouping  
Provided with Advance sensor ready series 0-10V dimming drivers |
| ES3           | Philips EasySense SN300 | Occupancy, daylight harvesting sensor for integration with Zigbee control networks  
Provided with Advance sensor ready series 0-10V dimming drivers |
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</tr>
</thead>
</table>
| 420-WB        | WALL MOUNT BRACKET | • For use when mounting fixtures with flange or trimless options in walls or restricted ceiling conditions  
• 16 ga. bracket clamps fixture to the backside of the mounting surface with provided hardware  
• Sold individually; **two** required for 22”-61” nom. fixtures, **three** required for 66”-88” nom. fixtures |

**ACCESSORIES**

Note: Accessories sold separately

![Diagram of Mounting bracket and Fixture housing]