BSS420 | wake

2" wide aperture recessed LED luminaire

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VISIONS BROUGHT TO LIGHT™

Project: _____ Type: _____

7 DAY QuickShip

Highlighted fields denote QuickShip Options. See complete 7-Day QuickShip Terms and Conditions available at *www.bartcolighting.com/quickship-products/* Purchase order must reference "QuickShip".

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.

Fixture with certain options available for 7-Day QuickShip.

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.)

Frosted acrylic lens options include a 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 L_{70}

Chicago plenum rated option available
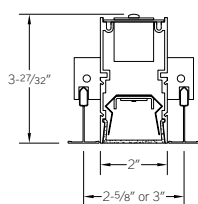
Nominal weight is 2.8 lbs. per foot

Limited five year warranty

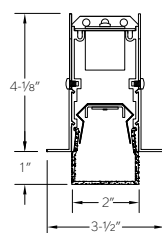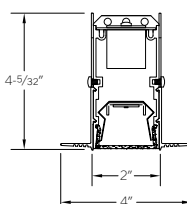UL and C-UL listed for dry and damp locations

SECTIONS

T1: T-grid 9/16"
T2: T-grid 15/16"
(flush lens option shown)

FT: Flange
(drop lens option shown)

TL: Trimless
(flush lens option shown)

PERFORMANCE

Note: All data reflects fixtures with 3500K LEDs

NOMINAL LENGTH	OPTIC OPTION	OUTPUT	LUMENS/ft.	WATTS/ft.	LUMINAIRE LUMENS	EFFICACY (LPW)
45"	FLUSH	L: low	450	5.5	1666	79
		R: regular	580	7.6	2164	74
		H: high	760	10.6	2843	70
	DROP	L: low	490	5.5	1809	86
		R: regular	630	7.6	2349	81
		H: high	830	10.6	3087	76

UL CERTIFIED · Made in USA · (NECA/IBEW seal)

BSS420 –

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

NOMINAL APERTURE LENGTH*
22: 22"
24: 24"
33: 33"
39: 39"
44: 44"
48: 48"
50: 50"   72: 72"
55: 55"   77: 77"
61: 61"   83: 83"
66: 66"   88: 88"

CORRELATED COLOR TEMPERATURE
27: 2700K-90+ CRI
30: 3000K-90+ CRI
35: 3500K-90+ CRI
40: 4000K-90+ CRI

DRIVER
ND: non-dimming
[Dimming]
D: 0-10V, 1%
DTR: triac, 1%, (120V ONLY)
DLV: electronic low voltage, 1%, (120V ONLY)
HES: Lutron EcoSystem, soft-on/fade-to-black, 1%
EL: eldoLED ECOdrive 0-10V, 1%
ES: eldoLED SOLOdrive 0-10V, 0.1%
ELD: eldoLED ECOdrive DALI, 1%
ESD: eldoLED SOLOdrive DALI, 0.1%

LIGHT OUTPUT
(lumens per foot w/lens option F1)
L: low – 450
R: regular – 580
H: high – 760
CF: consult factory for custom output

LENS
F1: frosted flush
F2: frosted drop
L: louver

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

OPTIONS
CP: Chicago plenum
ED: emergency driver (44"–88" fixtures)
WS1A: Wattstopper FS-205, 100%-0% ‡
WS1B: Wattstopper FS-205, 100%-50% ‡
EN1: Enlighted FS-D22 ‡
ES1A: EasySense SNS102, 100%-0% ‡
ES1B: EasySense SNS102, 100%-50% ‡
ES2A: EasySense SNS200, 100%-0% ‡
ES2B: EasySense SNS200, 100%-50% ‡
CF: consult factory for custom finish options

* Actual dimension dependent on mounting option and run configuration.
‡ See sensor section for driver compatibility information.

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MOUNTING

ORDERING CODE	DESCRIPTION	SPECIFICATIONS

T1
T2

T-grid ceiling ⁹⁄₁₆"
T-grid ceiling ¹⁵⁄₁₆"

- 16 ga. brackets locate housing onto T-bar and allow ⅝" of vertical adjustment to accommodate various height T-bar
- Housing secured with support wires (by others)
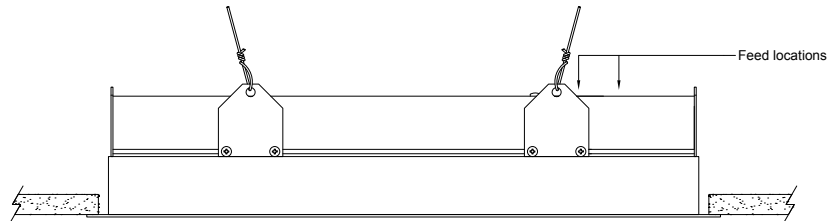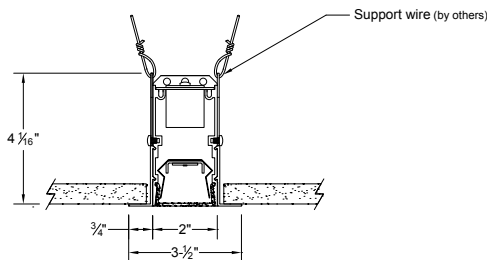- Exposed flange trim in matte white finish
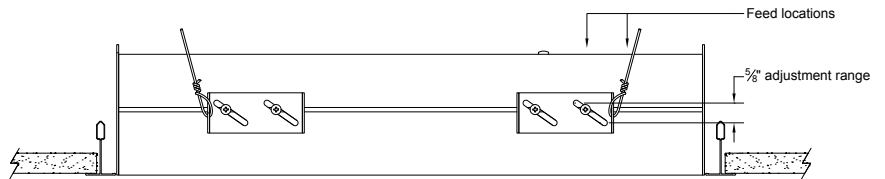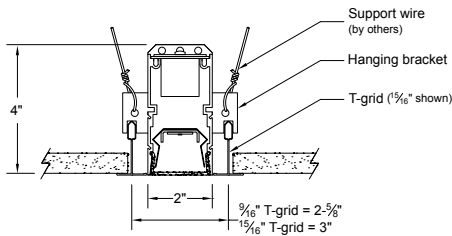
FT

Flange - drywall ceiling or wall

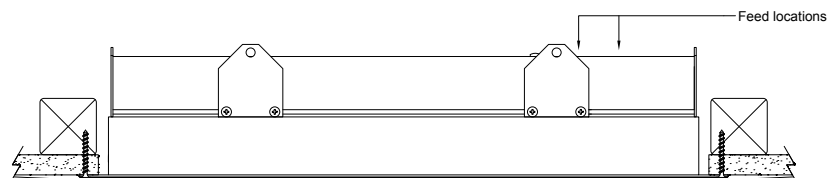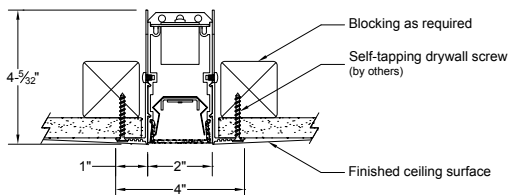- **For wall installations or special ceiling conditions, order accessory mounting brackets 420-WB**
- ¾" wide extruded aluminum trim flange in matte white finish
- Housing secured with support wires or ¼-20 threaded rod (by others)
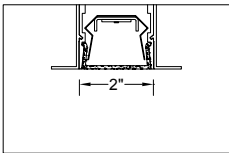

TL

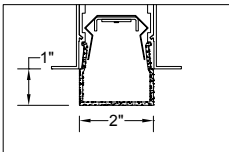Trimless - drywall ceiling or wall

- Installs after ½" or ⅝" drywall
- Housing secured with self-tapping drywall screws (by others) into blocking as required

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LENS OPTIONS

	ORDERING CODE	DESCRIPTION	SPECIFICATIONS	
shown with flange trim option	F1	FROSTED FLUSH LENS	2" W frosted acrylic extrusion	⊢2"⊣
shown with flange trim option	F2	FROSTED DROP LENS	2" W x 1" H frosted acrylic extrusion with matching acrylic end caps	1" / 2"
	L	LOUVER	Parabolic louver with ⅝" blades at 1" spacing, formed from diffuse, high reflectance aluminum and supplied with light diffusion film	

OPTIONS

	ORDERING CODE	DESCRIPTION	SPECIFICATIONS
Note: remote battery backup available for shorter fixture lengths – ordered separately, consult factory for details.	ED	EMERGENCY LED DRIVER	• Universal 120-277V input voltage emergency driver delivers initial minimum power of 10W for 90 minutes • Available for 44"–88" fixtures • Provided with combination test switch/indicator light for remote mount installation

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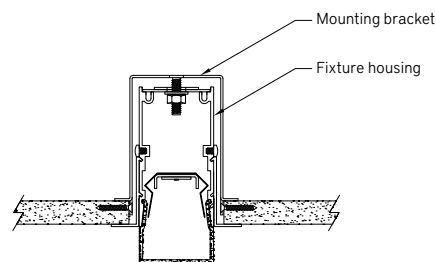2" wide aperture recessed LED luminaire

INTEGRATED SENSORS

Note: 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.
Consult factory for custom light output setting.

	ORDERING CODE	LIGHT OUTPUT SETTING	BRAND AND MODEL	FUNCTIONS	NOTES
	WS1A	100% – 0%	Wattstopper FS-205	Occupancy and light level sensor	For use with on/off or 0-10V dimming drivers only
	WS1B	100% – 50%			
	EN1	Set during commissioning	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
	ES1A	100% – 0%	Philips EasySense SNS102	Occupancy, daylight harvesting and task tuning sensor with simple grouping	Provided with Advance sensor ready series 0-10V dimming drivers
	ES1B	100% – 50%			
	ES2A	100% – 0%	Philips EasySense SNS200	Occupancy, daylight harvesting and task tuning sensor with advance grouping	Provided with Advance sensor ready series 0-10V dimming drivers
	ES2B	100% – 50%			

ACCESSORIES   Note: Accessories sold separately

	ORDERING CODE	DESCRIPTION	SPECIFICATIONS
Mounting bracket — Fixture housing	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

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MOUNTING DIMENSIONS

FOR T-GRID WITH STANDARD 24" AND 48" CENTERS ONLY
SINGLE (SN) CONFIGURATION ONLY

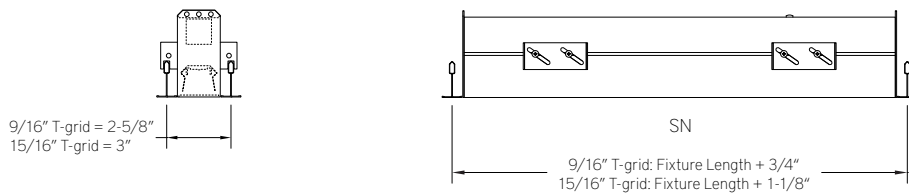| ORDER CODE	HOUSING LENGTH 9/16" T-GRID	HOUSING LENGTH 15/16" T-GRID
24	23-1/4"	22-7/8"
48	47-1/4"	46-7/8"

FOR T-GRID WITH CUSTOM CENTERS OR FLANGE AND TRIMLESS MOUNTING OPTIONS
SINGLE (SN), STARTER (ST), ADDER (AD), TERMINATOR (TR) CONFIGURATIONS

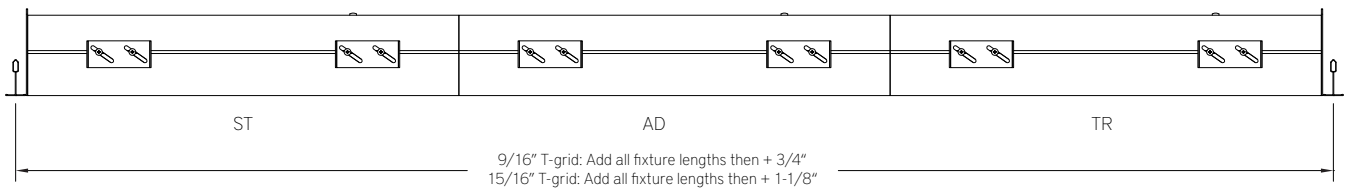| ORDER CODE	HOUSING LENGTH	ORDER CODE	HOUSING LENGTH
22	22-1/8"	55	55-1/8"
24	24-1/8"	61	60-5/8"
33	33-1/8"	66	66-1/8"
39	38-5/8"	72	71-5/8"
44	44-1/8"	77	77-1/8"
48	48-1/8"	83	82-5/8"
50	49-5/8"	88	88-1/8"

TO DETERMINE CUSTOM GRID CENTERS FOR T-GRID CEILING MOUNTING

Single Fixtures

9/16" T-grid = 2-5/8"
15/16" T-grid = 3"

SN

9/16" T-grid: Fixture Length + 3/4"
15/16" T-grid: Fixture Length + 1-1/8"

Continuous Runs

ST
AD
TR

9/16" T-grid: Add all fixture lengths then + 3/4"
15/16" T-grid: Add all fixture lengths then + 1-1/8"

TO DETERMINE WALL / CEILING CUT OUT FOR FLANGE TRIM AND TRIMLESS MOUNTING

Single Fixtures

2-1/2" cut out width

SN

Flange or Trimless: Fixture Length + 5/8"

Continuous Runs

ST
AD
TR

Flange or Trimless: Add all fixture lengths then + 5/8"