BSS420 | wake

2″ wide aperture recessed LED luminaire

bartco
VISIONS BROUGHT TO LIGHT™

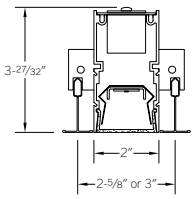
Project: _____ Type: _____

7 DAY QuickShip

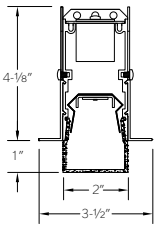
Highlighted fields denote QuickShip Options. See complete 7-Day QuickShip Terms and Conditions available at *www.bartcolighting.com/quickship-products/* Purchase order must reference "QuickShip".

SECTIONS

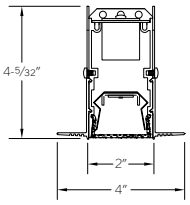
T1: T-grid 9/16″
T2: T-grid 15/16″
(flush lens option shown)



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

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, 1″ drop and wall wash acrylic lens options are offered for all mounting configurations. The BSS420 is Controls Capable, being offered with a variety of integrated control options.

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.).

Optic options include an acrylic frosted flush or 1″ drop lens, acrylic Fresnel wall wash lens and flat blade 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).

Standard light outputs range from 450–830 lumens per foot, depending on optic option.

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}.

Bartco Lighting Controls Capable fixture available with integrated controls from a variety of suppliers.

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.

CERTIFIED · Made in USA · BAA Compliant · Controls Capable

BSS420 –

_____ - _____ - _____ - _____ - _____ - _____ - _____ - _____

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″ 55: 55″
24: 24″ 61: 61″
33: 33″ 66: 66″
39: 39″ 72: 72″
44: 44″ 77: 77″
48: 48″ 83: 83″
50: 50″ 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/optic option F1)
L: low – 450
R: regular – 580
H: high – 760
CF: consult factory for custom output

OPTIC
F1: frosted flush
F2: frosted drop
WW: wall wash
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% ‡
ES4: Philips EasySense SNS211 MC ‡
CA1: Casambi CBU-A2D ‡
NL1: nLight RES7 ‡
NL2: nLight RIO ‡
LA1: Lutron Athena A-WN-D01-RF-WH ‡
LA2: Lutron Athena A-WN-D01-OCC-WH ‡
CF: consult factory for custom finish options

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

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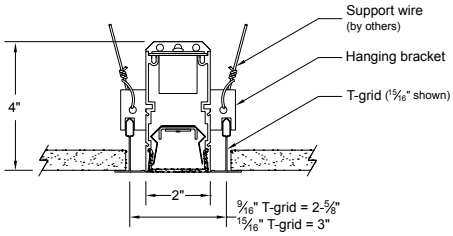
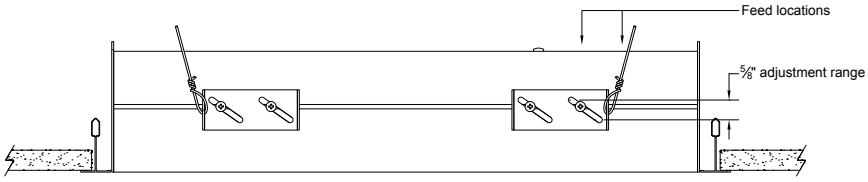
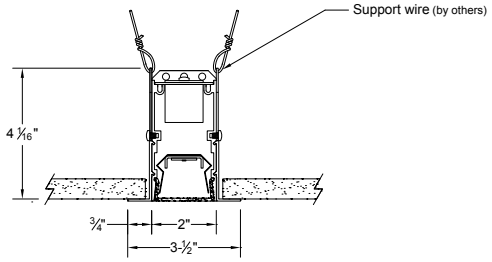
MOUNTING

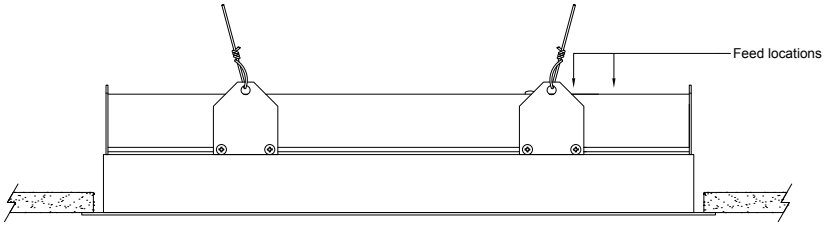
ORDERING CODE	DESCRIPTION	SPECIFICATIONS
T1 T2	T-grid ceiling 9/16″ T-grid ceiling 15/16″	• 16 ga. brackets locate housing onto T-bar and allow 5/8″ of vertical adjustment to accommodate various height T-bar. • Housing secured with support wires (by others). • Exposed flange trim in matte white finish.



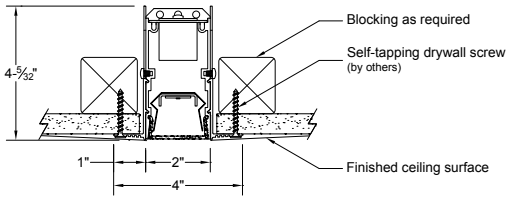


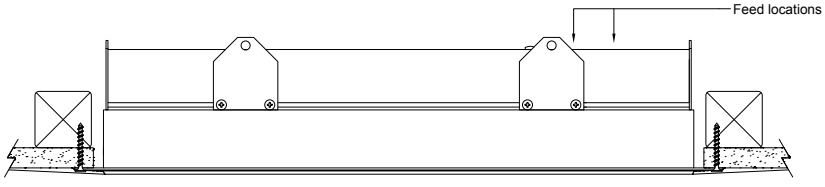
FT	Flange - drywall ceiling or wall	• **For wall installations or special ceiling conditions, order accessory mounting brackets 420-WB.** • 3/4″ wide extruded aluminum trim flange in matte white finish. • Housing secured with support wires or 1/4-20 threaded rod (by others).





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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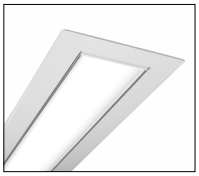
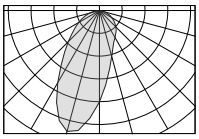
OPTIC

	ORDERING CODE	DESCRIPTION	SPECIFICATIONS
 shown with flange trim option	F1	FROSTED FLUSH LENS	2″ W frosted acrylic extrusion
shown with flange trim option	F2	FROSTED DROP LENS	2″ W x 1″ H frosted acrylic extrusion with matching acrylic end caps
	WW	WALL WASH	Acrylic extrusion with optically engineered Fresnel prisms for wall wash applications. Optimized for placement 18″–24″ from a wall surface. Uniformity ratio as low as 4:1.
	L	LOUVER	2″ W Flat blade louver with 5⁄8″ blades at 7⁄8″ spacing, formed from sheet steel. Finish is Environmental Satin Silver (consult factory for alternate finishes). 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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OPTIONS – INTEGRATED CONTROLS

Note: Control options takes up 4" of the overall lens length. For "F1", "WW" and "L" optic option, controls are mounted to flush filler piece. For "F2" optic option, controls are mounted to 1" H sheet formed cover.

Controls Capable

	ORDERING CODE	LIGHT OUTPUT SETTING	MODEL	CONTROL PROTOCOL	FUNCTIONS	COMPATIBLE DRIVERS
legrand® WATTSTOPPER®	**WS1A**	100% – 0% [1]	FS-205	N/A	PIR occupancy and light level sensor.	For use with on/off or 0-10V dimming drivers only.
	WS1B	100% – 50% [1]				
PHILIPS EasySense	**ES4**	Set during commisioning	SNS211 MC	Bluetooth Wireless	Occupancy, daylight harvesting and task tuning sensor with advance grouping, for use within a MasterConnect network.	Provided with Advance sensor ready series 0-10V dimming drivers.
CASAMBI	**CA1**	Set during commisioning	CBU-A2D	Bluetooth Wireless	0-10V/DALI driver controller, for use within a Casambi ecosystem.	For use with 0-10V or DALI drivers. Consult factory for details.
nLIGHT	**NL1**	Set during commisioning	RES7 [2]	Radio Wireless	Dimming, PIR occupancy detection and daylight harvesting, for use within an nLight AIR network.	Provided with Advance sensor ready series or eldoLED 0-10V drivers.
	NL2		RIO [2]		Dimming, for use within an nLight AIR network.	
LUTRON	**LA1**	Set during commisioning	A-WN-D01-RF-WH	Radio Wireless	Dimming only for use with an Athena control system.	Provided with Advance sensor ready series or eldoLED 0-10V or eldoLED DALI-2 drivers.
	LA2		A-WN-D01-OCC-WH		Dimming, PIR occupancy and daylight sensor for use with an Athena control system.	

1. Consult factory for custom light output setting.
2. Consult your Acuity representative for application-specific model number.

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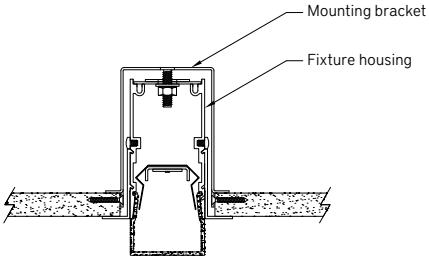
ACCESSORIES

Note: Accessories sold separately

	ORDERING CODE	DESCRIPTION	SPECIFICATIONS
	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"

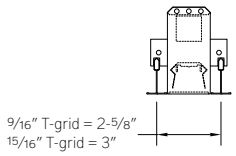
FOR T-GRID WITH CUSTOM CENTERS OR FLANGE AND TRIMLESS MOUNTING OPTIONS
SINGLE (SN), STARTER (ST), ADDER (AD), TERMINATOR (TR) CONFIGURATIONS

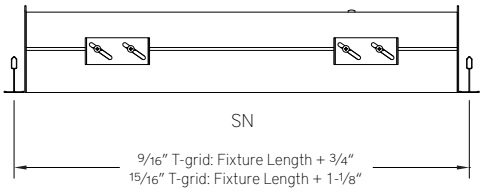
ORDER CODE	HOUSING LENGTH
22	22-1/8"
24	24-1/8"
33	33-1/8"
39	38-5/8"
44	44-1/8"
48	48-1/8"
50	49-5/8"

ORDER CODE	HOUSING LENGTH
55	55-1/8"
61	60-5/8"
66	66-1/8"
72	71-5/8"
77	77-1/8"
83	82-5/8"
88	88-1/8"

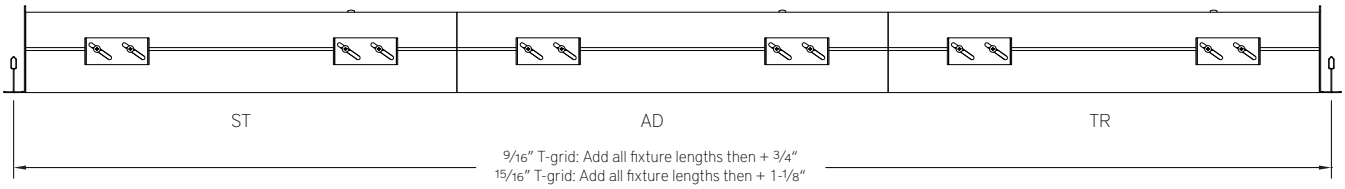
TO DETERMINE CUSTOM GRID CENTERS FOR T-GRID CEILING MOUNTING

Single Fixtures



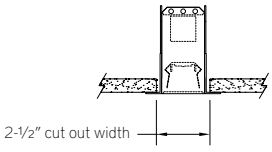


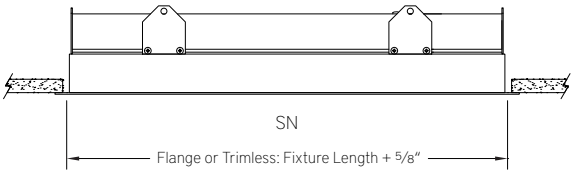
Continuous Runs



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

Single Fixtures





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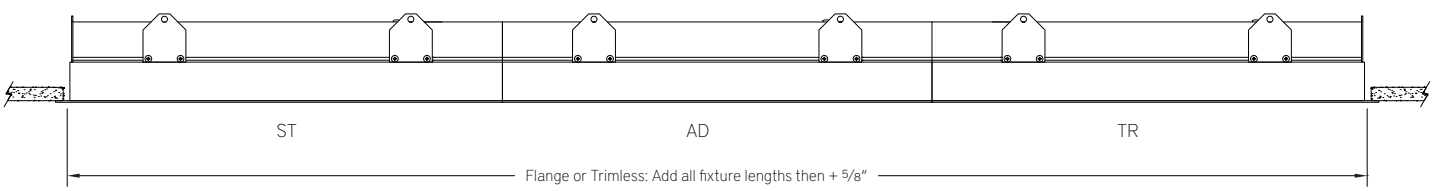

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