# HCB16 Swel

3" wide aperture recessed LED luminaire, Illuminated by BIOS®

Project: \_



shown with flange trin and flush lens options

#### SECTIONS

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



FT: Flange (drop lens option shown)





TL: Trimless



PERFORMANCE

Note: All data reflects fixture with BIOS Static Spectrum 3500K LEDs.

NOMINAL LENGTH	OPTIC OPTION	OUTPUT	LUMENS /ft.	WATTS /ft.	LUMINAIRE LUMENS	EFFICACY (LPW)
A A!!	FLUCH	R: regular	685	9.7	2540	71
44″	FLUSH	H: high	915	13.3	3387	69

#### 

HCB16 -											
- MOUNTING	- NOMINAL	- CORRELATED	- DRIVER	-		-	RUN CC	- )NI-		21	
OPTION T1: T-grid 9/16"	FIXTURE LENGTH*	COLOR TEMPERATURE	ND: non- dimming	(lumens per fo w/optic F1)	-		FIGURA SN: single	TION	CP: Chicag		r 88″ fixtures)
T2: T-grid 15/16" FT: Flange trim	22: 22″ 24: 24″ (T1 or	[BIOS static] BS30: 3000K	[Dimming] D: 0-10V, 1%	R: regular – 685 H: high – 915			ST: starter AD: adder			ttstopper FS-205, ttstopper FS-205,	
TL: Trimless CF: consult	T2 w/SN ONLY) 33: 33"	BS35: 3500K BS40: 4000K	DTR: triac, 1%, (120V ONLY) **	CF: consult factor for custom output			TR: termin		EN1: Enlig	hted FS-D22 ‡ s EasySense SNS2	
factory for custom	44: 44″ 48: 48″ (T1 or	[BIOS dynamic] BD30: 2700K-3000K	DLV: electronic low voltage, 1%, (120V ONLY) **			OPT	IC		· ·	mbi CBU-A2D ‡	- TT WC +
mounting	T2 w/SN ONLY) 55: 55"	BD35: 2700K-3500K BD40: 2700K-4000K	HES: Lutron EcoSy to-black, 1% **	stem, soft-on/fade	· · ·		osted flush osted drop		NL2: nLigh	-	01-RE-WH +
	66: 66" 77: 77"	[BIOS dynamic TW] BDTW30: 2700K-3000K	EL: eldoLED ECOC ES: eldoLED SOLC			.: lou			LA2: Lutro	n Athena A-WN-D t factory for custor	01-OCC-WH ‡
	88: 88″	BDTW35: 2700K-3500K BDTW40: 2700K-4000K	ELD: eldoLED ECC ESD: eldoLED SOL							ption and run configu	

\*\* Consult factory for dimming protocols other than 0-10V.

See Integrated Controls section for driver compatibility information ŧ

©2024 Bartco Lighting, Inc. These products are protected by patents and patents pending. Unauthorized use or reproduction of illustrations, photographs or text is prohibited. Bartco Lighting reserves the right to discontinue products or to change the technical and/or design specifications at any time. SkyBlue, BIOS, Illuminated By BIOS are registered trademarks of Biological Innovations and Optimization Systems, LLC.

### **FEATURES**

The Swell Series HCB16 is a linear recessed LED luminaire tailored for health-centric lighting installations. The 3" wide aperture is available with multiple optic options and constructed for installation in common grid ceilings or in hard walls and ceilings with flange and trimless variants. The HCB16 is Controls Capable, being offered with a variety of integrated control options

Type: \_

The HCB16 fixture is embedded with BIOS SkyBlue® circadian solutions to produce the healthy "blue sky" light signal needed to stimulate human circadian biology. This specific light wavelength communicates directly with human biology through a non-visual photoreceptor to regulate circadian rhythms, providing healthier sleep patterns and ultimately, better health.

#### **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 a frosted flush or 1" drop acrylic lens and flat blade louver.

Standard integral 120-277V driver offered with 0-10V dimming or non-dim (consult factory regarding other dimming protocols).

Integral 120-277V emergency battery backup available for 44" or 88" fixtures (consult factory for all other lengths/drivers, supplied with remote test switch/ indicator plate assembly).

Standard light outputs are 685 and 915 lumens per foot with the flush lens option.

BIOS LEDs have 80+ CRI, R9 90+ and are available in static 3000K, 3500K, 4000K and two dynamic options in 2700-3000K, 2700-3500K and 2700-4000K.

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

Life: 50,000 hours L<sub>70</sub>.

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.



### Controls

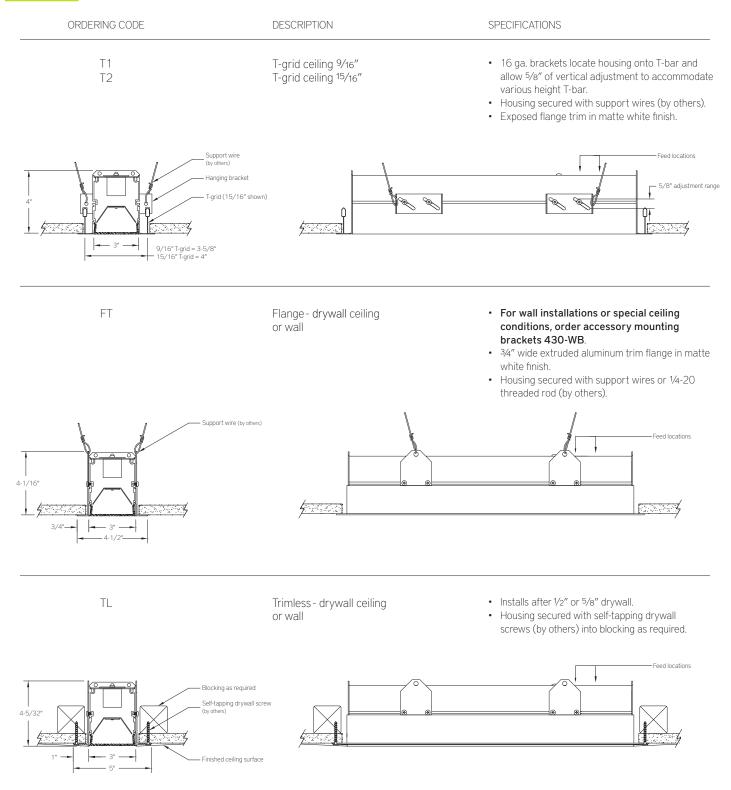
pg.1 04.2024



3" wide aperture recessed LED luminaire, Illuminated by BIOS®

bartco visions brought to Light™

#### MOUNTING



3" wide aperture recessed LED luminaire, Illuminated by  $\mathsf{BIOS}^\circledast$ 



CORRELATED COLOR TEMPERATURE

Consult factory for specifics when using dimming protocols other than 0-10V. For additional information about BIOS LED modules, visit www.bartcolighting.com/series/swell/

ORDERING CODE	MODULE TYPE	LIGHT EFFECT	CONTROL METHOD	
BS30 BS35 BS40	BIOS Static	<ul> <li>Static color temperature</li> <li>490nm SkyBlue<sup>®</sup> LED is always on.</li> </ul>	<ul> <li>Non-dimming or 0-10V</li> <li>No BIO-Dimming module required.</li> </ul>	0-10V Luminaire
BD30 BD35 BD40	BIOS Dynamic	<ul> <li>490nm SkyBlue<sup>®</sup> LED can be BIO dimmed out with most driver/dimmer combinations.</li> <li>490nm SkyBlue<sup>®</sup> wavelengths removed through first 20% of dimming range, followed by a CCT transition to 2700K.</li> </ul>	<ul> <li>0-10V</li> <li>Includes integral Bio- Dimming module.</li> </ul>	0-10V Luminaire w/integral BIO-Dimmer module
BDTW30 BDTW35 BDTW40	BIOS Dynamic Tunable White	<ul> <li>CCT and Light output can be controlled separately with appropriate driver.</li> <li>3000K, 3500K and 4100K modules all transition to 2700K when dimmed.</li> </ul>	<ul> <li>0-10V two-channel driver</li> <li>No BIO-Dimming module required.</li> </ul>	0-10V Luminaire w/two-channel driver

3" wide aperture recessed LED luminaire, Illuminated by BIOS®



OPTIC ORDERING CODE DESCRIPTION **SPECIFICATIONS** F1 FROSTED FLUSH LENS 3" W frosted acrylic extrusion shown with flange trim option F2 FROSTED DROP LENS  $3^{\prime\prime}$  W x  $1^{\prime\prime}$  H frosted acrylic extrusion with matching acrylic end caps shown with flange trim option L LOUVER 3" 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.

TIONS	ORDERING CODE	DESCRIPTION	SPECIFICATIONS
Note: remote battery back – ordered separately, cons	ED	EMERGENCY LED DRIVER	<ul> <li>Universal 120-277V input voltage emergency driver delivers initial minimum power of 10W for 90 minutes.</li> <li>Available for 44" or 88" fixtures.</li> <li>Provided with combination test switch/indicator light for remote mount installation.</li> </ul>

3" wide aperture recessed LED luminaire, Illuminated by BIOS®



OPTIONS – INTEGRATED CONTROLS

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



	ORDERING CODE	LIGHT OUTPUT SETTING	MODEL	CONTROL PROTOCOL	FUNCTIONS	COMPATIBLE DRIVERS	
L'ilegrand <sup>®</sup>	WS1A	100% - 0% 1	FS-205	N/A	PIR occupancy and light	For use with on/off or 0-10V dimming drivers	
WATTSTOPPER®	WS1B	100% - 50% <sup>1</sup>			level sensor.	only.	
Enlighted	EN1	Set during commisioning	FS-D22	Bluetooth Wireless	PIR occupancy, ambient light sensing, daylight harvesting, and environment monitoring for use within an Enlighted control network.	Provided with Advance sensor ready series 0-10V dimming drivers.	
<b>PHILIPS</b> 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.	
	NL1	Set during	RES7 2	Radio	Dimming, PIR occupancy detection and daylight harvesting, for use within an nLight AIR network.	Provided with Advance sensor ready series or	
hLight	NL2	commisioning	RIO 2	Wireless	Dimming, for use within an nLight AIR network.	eldoLED 0-10V drivers.	
<b>%LUTRON</b>	LA1	Set during	A-WN-D01-RF- WH	Radio	Dimming only for use with an Athena control system.	Provided with Advance sensor ready series	
	LA2	commisioning	A-WN-D01- OCC-WH	Wireless	Dimming, PIR occupancy and daylight sensor for use with an Athena control system.	or eldoLED 0-10V or eldoLED DALI-2 drivers.	

1. Consult factory for custom light output setting.

2. Consult your Acuity representative for application-specific model number.

©2024 Bartco Lighting, Inc. These products are protected by patents and patents pending. Unauthorized use or reproduction of illustrations, photographs or text is prohibited. Bartco Lighting reserves the right to discontinue products or to change the technical and/or design specifications at any time. SkyBlue, BIOS, Illuminated By BIOS are registered trademarks of Biological Innovations and Optimization Systems, LLC.

3" wide aperture recessed LED luminaire, Illuminated by  $\mathsf{BIOS}^\circledast$ 



### ACCESSORIES

Note: Accessories sold separately

	ORDERING CODE	DESCRIPTION	SPECIFICATIONS
Fixture housing	430-WB	WALL MOUNT BRACKET	<ul> <li>For use when mounting fixtures with flange or trimless options in walls or restricted ceiling conditions.</li> <li>16 ga. bracket clamps fixture to the backside of the mounting surface with provided hardware.</li> <li>Sold individually; two required for 22"-61" nom. fixtures, three required for 66"-88" nom. fixtures.</li> </ul>

3" wide aperture recessed LED luminaire, Illuminated by BIOS®

bartco visions brought to light™

FIXTURE LENGTHS

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

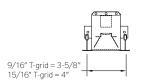
### FOR T-GRID WITH STANDARD 24" AND 48" CENTERS ONLY

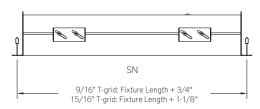
ORDER CODE	HOUSING LENGTH 9/16" T-GRID	HOUSING LENGTH <sup>15/</sup> 16" T-GRID
24	23-1/4″	22-7/8″
48	47-1/4″	46-7/8″

ORDER CODE	HOUSING LENGTH	ORDER CODE	HOUSING LENGTH
22	22-1/8″	66	66-1/8″
33	33-1/8″	77	77-1/8″
44	44-1/8″	88	88-1/8″
55	55-1/8″		

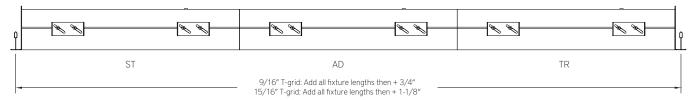
### TO DETERMINE CUSTOM GRID CENTERS FOR T-GRID CEILING MOUNTING

Single Fixtures

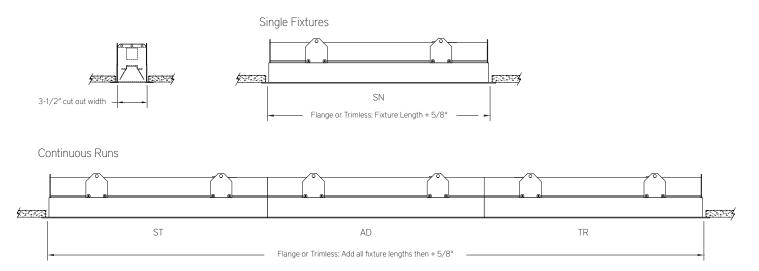




Continuous Runs



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



©2024 Bartco Lighting, Inc. These products are protected by patents and patents pending. Unauthorized use or reproduction of illustrations, photographs or text is prohibited. Bartco Lighting reserves the right to discontinue products or to change the technical and/or design specifications at any time. SkyBlue, BIOS, Illuminated By BIOS are registered trademarks of Biological Innovations and Optimization Systems, LLC.