HCB16 | Swell

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



Project: _ Type: _

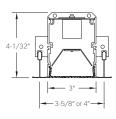




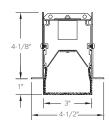
shown with flange trim and flush lens options

SECTIONS

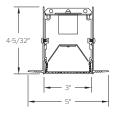
T1: T-grid 9/16" T2: T-grid 15/16' (flush lens option shown)







TL: Trimless (flush lens option shown)



PERFORMANCE

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

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

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 lens options and constructed for installation in common grid ceilings or in hard walls and ceilings with flange and trimless variants.

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.)

Lens options include frosted acrylic flush fit or 1" drop style with lensed ends

Standard integral 120-277V driver offered with 0-10V dimming or non-dim

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 Static Spectrum or Dynamic LEDs available in 3000K, 3500K and 4000K, with a CRI of 80+ to 90 depending on color

Life: 50,000 hours L₇₀

Chicago plenum rated option available

Nominal weight is 3.1 lbs. per foot

Limited five year warranty

UL and C-UL listed for dry and damp locations







HCB16 -

MOUNTING T1: T-grid 9/16" T2: T-grid 15/16" FT: Flange trim TL: Trimless CF: consult

factory for

mounting

custom

FIXTURE LENGTH* 22: 22" 24: 24" (T1 ONLY) 33: 33" 44: 44" ONLY) 55: 55" 66: 66" 77: 77" 88: 88"

NOMINAL

or T2 w/SN 48: 48" (T1 or T2 w/SN

CORREL ATED **COLOR TEMPERATURE** [BIOS static]

BS30: 3000K BS35: 3500K BS40: 4000K [BIOS dynamic]

BD30: 2700K-3000K BD35: 2700K-3500K BD40: 2700K-4000K [BIOS dynamic TW] BDTW30: 2700K-3000K

BDTW35: 2700K-3500K

BDTW40: 2700K-4000K

DRIVER LIGHT OUTPUT (lumens per foot ND: nonw/flush lens)

R: regular - 685 D: 0-10V, 1% H: high - 915

CF: consult factory for custom output

RUN CON-FIGURATION SN: single

ST: starter AD: adder TR: terminator

OPTIC OPTION

F1: frosted flush F2: frosted drop

OPTIONS

CP: Chicago plenum

ED: emergency driver (44"-88" fixtures) WS1A: Wattstopper FS-205, 100%-0% \ddagger 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

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

[Dimming]

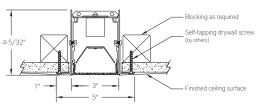
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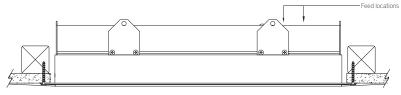
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MOUNTING

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
4" 3° 9/16" T-grid = 3-5 15/16" T-grid = 4	Support wire (try others) Hanging bracket T-grid (15/16" shown)	Feed locations 5/8" adjustment ra
FT	Flange - drywall ceiling or wall	 For wall installations or special ceiling conditions, order accessory mounting brackets 430-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)
3/4" - 4-1/2"	support wire (by others)	Feed locations
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
	flocking as required	Feed locations





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CORRELATED COLOR TEMPERATURE

shown with flange trim option

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	Static color temperature 490nm SkyBlue® LED is always on	Non-dimming or O-10VNo BIO-Dimming module required	0-10V Luminaire
BD30 BD35 BD40	BIOS Dynamic	 490nm SkyBlue® LED can be BIO dimmed out with most driver/dimmer combinations 490nm SkyBlue® wavelengths removed through first 20% of dimming range, followed by a CCT transition to 2700K 	 0-10V Includes integral Bio- Dimming module 	0-10V Luminaire w/integral BI0-Dimmer module
BDTW30 BDTW35 BDTW40	BIOS Dynamic Tunable White	 CCT and Light output can be controlled separately with appropriate driver 3000K, 3500K and 4100K modules all transition to 2700K when dimmed. 	 0-10V two-channel driver No BIO-Dimming module required 	0-10V Luminaire w/two-channel driver

ORDERING CODE DESCRIPTION SPECIFICATIONS F1 FROSTED FLUSH LENS 3" W frosted acrylic extrusion F2 FROSTED DROP LENS 3" W x 1" H frosted acrylic extrusion with matching acrylic end caps

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OPTIONS

ORDERING CODE DESCRIPTION SPECIFICATIONS



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

- ordered separately, consult factory for details.

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
0	WS1A WS1B	100% - 0% 100% - 50%	Wattstopper FS-205	Occupancy and light level sensor	For use with on/off or 0-10V dimming drivers only
	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 ES1B	100% – 0% 100% – 50%	Philips EasySense SNS102	Occupancy, daylight harvesting and task tuning sensor with simple grouping	Provided with Advance sensor ready series 0-10V dimming drivers
	ES2A ES2B	100% - 0% 100% - 50%	Philips EasySense SNS200	Occupancy, daylight harvesting and task tuning sensor with advance grouping	Provided with Advance sensor ready series 0-10V dimming drivers

ACCESSORIES

Note: Accessories sold separately

ORDERING CODE DESCRIPTION **SPECIFICATIONS** Mounting bracket 430-WB WALL MOUNT BRACKET • For use when mounting fixtures with flange or trimless options in walls or Fixture housing 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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FIXTURE LENGTHS

24

48

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 HOUSING LENGTH 9/16" T-GRID 15/16" T-GRID

22-7/8"

46-7/8"

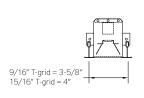
23-1/4"

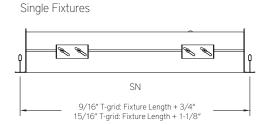
47-1/4"

ORDER CODE	HOUSING LENGTH
22	22-1/8"
33	33-1/8"
44	44-1/8"
55	55-1/8"

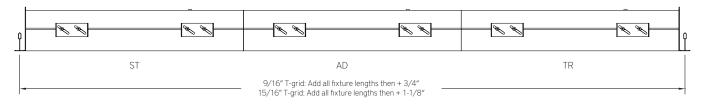
ORDER CODE	HOUSING LENGTH	
66	66-1/8"	
77	77-1/8"	
88	88-1/8"	

TO DETERMINE CUSTOM GRID CENTERS FOR T-GRID CEILING MOUNTING

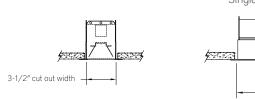


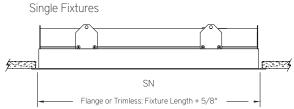


Continuous Runs



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





Continuous Runs

