

HCB20 | Swell

Adjustable cove mount LED luminaire, Illuminated by BIOS®



Project: _____ Type: _____



Shown with asymmetric optic



Shown with asymmetric optic



Shown with frosted optic

FEATURES

The HCB20 is a linear LED luminaire tailored for health-centric lighting installations. This small profile, cove mount model features rugged construction, a unique, field adjustable locking focus and two lens optics.

The HCB20 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 mounting/wiring channel is formed and welded 20 ga. steel chemically treated to resist corrosion and enhance paint adhesion

LED housing is extruded aluminum with sheet aluminum end caps

Standard fixture finish is semi-gloss white powder coat, applied post production

Asymmetric and general diffuse extruded acrylic lens options available

Available in nominal lengths of 2', 3', 4' and 5'

LED housing rotates and locks in place without tools at -15°, 0°, 15°, 30°, 45°, 60°, 75°, 90° and 105°

Knock outs on ends and underside accept standard electrical fittings by others

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

Integral 120-277V emergency battery backup available for 4' nominal non-dim or 0-10V

Standard outputs range from 665 to 915 lumens per foot, dependent on optic option

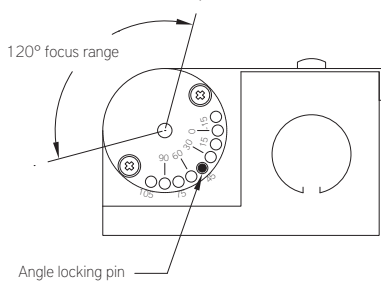
BIOS LEDs have 80+ CRI, R9 90+ and are available in static 3000K, 3500K, 4000K and two dynamic options in 2700-3000K, 2700-3500K and 2700-4000K

Life: 50,000 hours L₇₀

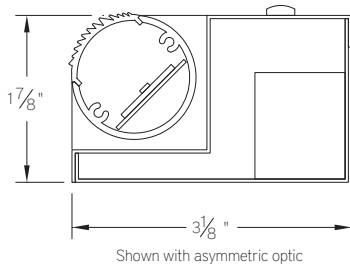
Limited five year warranty

UL and C-UL listed for dry and damp locations

PROFILE



SECTION



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)
4'	Asymmetric	R: regular	690	8.2	2601	84
		H: high	915	11.3	3468	81
	Frosted (Lambertian)	R: regular	665	8.0	2510	83
		H: high	885	11.0	3347	80



HCB20 -

FIXTURE LENGTH

- 2: 23-3/32"
- 3: 34-9/32"
- 4: 45-15/32"
- 5: 56-23/32"

CORRELATED COLOR TEMPERATURE ‡

- [BIOS static]**
- BS30: 3000K
 - BS35: 3500K
 - BS40: 4000K

[BIOS dynamic] [BIOS dynamic TW]

- BD30: 2700K-3000K BDTW30: 2700K-3000K
- BD35: 2700K-3500K BDTW35: 2700K-3500K
- BD40: 2700K-4000K BDTW40: 2700K-4000K

DRIVER

- ND: non-dimming
- [Dimming]**
- DM: 0-10V, 1%

LIGHT OUTPUT (lumens per foot w/ optic option A)

- R: regular – 690
- H: high – 915
- CF: consult factory for custom output

OPTIC

- A: asymmetric
- F: frosted (Lambertian)

OPTIONS

- ED: emergency driver (4' nom. non-dim or 0-10V only)

‡ All BIOS LEDs have 80+ CRI and R9 90+

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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 style="list-style-type: none"> Static color temperature 490nm SkyBlue® LED is always on 	<ul style="list-style-type: none"> Non-dimming or 0-10V No BIO-Dimming module required 	
BD30 BD35 BD40	BIOS Dynamic	<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> 0-10V Includes integral Bio-Dimming module 	
BDTW30 BDTW35 BDTW40	BIOS Dynamic Tunable White	<ul style="list-style-type: none"> CCT and Light output can be controlled separately with appropriate driver 3000K, 3500K and 4100K modules all transition to 2700K when dimmed. 	<ul style="list-style-type: none"> 0-10V two-channel driver No BIO-Dimming module required 	

OPTIC OPTION

	ORDERING CODE	DESCRIPTION
	A	Asymmetric light distribution
	F	Lambertian light distribution

OPTIONS

	ORDERING CODE	DESCRIPTION	SPECIFICATIONS
	ED	EMERGENCY LED DRIVER	<ul style="list-style-type: none">• Universal 120-277V input voltage emergency driver delivers initial minimum power of 10W for 90 minutes• Available for 4' nominal length non-dim or 0-10V fixture only (consult factory for all other lengths/drivers)• Provided with combination test switch/indicator light mounted to wall plate for remote installation