

HCB22 | Swell

Asymmetric cove mount LED luminaire, illuminated by BIOS®

Project: _____ Type: _____



FEATURES

The Swell Series HCB22 is a shallow profile asymmetric LED cove luminaire, tailored for health-centric lighting installations. The heavy gauge, sheet formed housing is fitted with a primary and saw-tooth reflector to produce a smooth, uniform gradient light across the ceiling plane. A clear dust cover shields the reflector system and LED modules.

The HCB22 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 constructed of formed and riveted, pre-painted 20 gauge aluminum and heavy gauge steel sheet end caps

The multi-reflector optic system is formed from aluminum with finishes of up to 96% reflectance

Includes a clear acrylic dust cover

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

Fixtures provided with 18 ga. wiring harness for 6 Amp maximum load (consult factory for runs requiring multiple circuits, sensor integration, etc.)

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 (consult factory for all other lengths/drivers)

Standard outputs are 585 or 780 lumens per foot

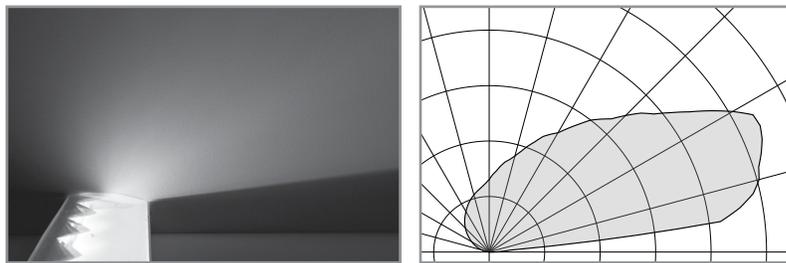
BIOS LEDs have 80+ CRI, R9 90+ and are available in static 3000K, 3500K, 4000K and two dynamic options in 2700-3000K, 2700-3500K and 2700-4000K

A supplemental optic blending film is provided for fixtures that terminate at a perpendicular wall

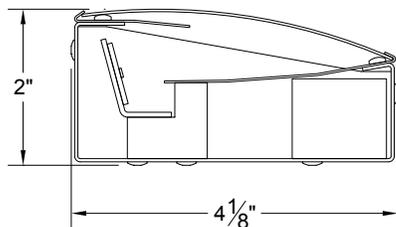
Life: 50,000 hours L₇₀

UL and C-UL listed for dry and damp locations

Limited five year warranty



SECTION



PERFORMANCE

NOMINAL LENGTH	OUTPUT	LUMENS/ft.	WATTS/ft.	LUMINAIRE LUMENS	EFFICACY (LPW)
4'	R: regular	585	8.2	2162	72
	H: high	780	11.3	2883	70

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



HCB22 -

FIXTURE LENGTH

- 22: 22-1/4"
- 33: 33-1/4"
- 44: 44-1/4"
- 55: 55-1/4"

CORRELATED COLOR TEMPERATURE

- | | |
|-----------------------|--------------------------|
| [BIOS static] | [BIOS dynamic TW] |
| BS30: 3000K | BDTW30: 2700K-3000K |
| BS35: 3500K | BDTW35: 2700K-3500K |
| BS40: 4000K | BDTW40: 2700K-4000K |
| [BIOS dynamic] | |
| BD30: 2700K-3000K | |
| BD35: 2700K-3500K | |
| BD40: 2700K-4000K | |

DRIVER

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

LIGHT OUTPUT (lumens per foot)

- R: regular – 585
- H: high – 780
- CF: consult factory for custom output

OPTIONS

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

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 	

OPTIONS

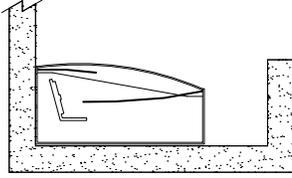
	ORDERING CODE	DESCRIPTION	SPECIFICATIONS
	ED	EMERGENCY LED DRIVER	<ul style="list-style-type: none"> Universal 120-277V input voltage emergency driver delivers initial minimum power of 10W for 90 minutes Available for 4' nominal length non-dim or 0-10V fixture only (consult factory for all other lengths/drivers)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

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MOUNTING

DESCRIPTION



Use appropriate fastener through $\text{Ø}3/16''$ holes in housing

NOTE: A minimum distance of 10" is suggested from the top of the fixture to the ceiling surface for best blending of light

ACCESSORY

	ORDERING CODE	DESCRIPTION	SPECIFICATIONS
	HCB22-DF	End of run diffusion film	<ul style="list-style-type: none">8" long piece of diffusion film blends and softens the light distribution on the end wall surfaces