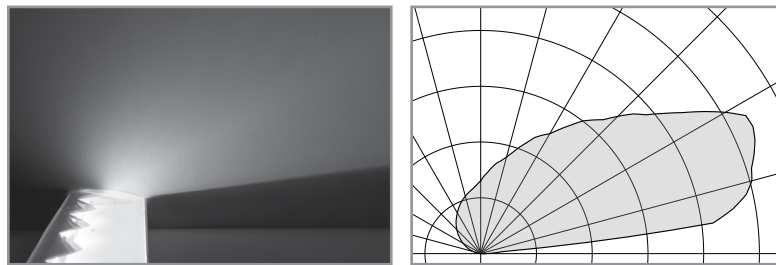


HCB22A | Swell

Asymmetric LED luminaire for use in manufactured cove systems, Illuminated by BIOS®



Project: _____ Type: _____



FEATURES

The Swell series HCB22A is a shallow profile asymmetric LED cove luminaire, designed to integrate with a manufactured cove system and 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 HCB22A 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 fixture housing is proportioned and formed to integrate with a manufactured cove system (consult factory for compatibility details).

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 (other dimming driver options available).

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.

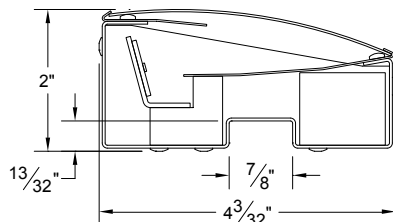
A supplemental optic blending film is provided for fixtures that terminate at a perpendicular wall.

Life: 50,000 hours L_{70} .

UL and C-UL listed for dry and damp locations.

Limited five year warranty.

SECTION



PERFORMANCE

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

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



HCB22A -

FIXTURE LENGTH

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

CORRELATED 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

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)

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

OPTIONS

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

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

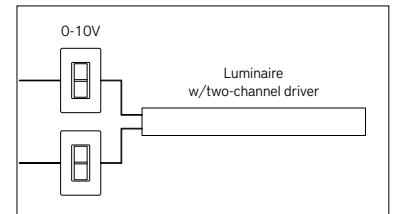
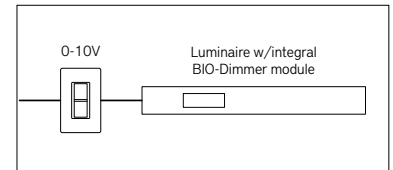
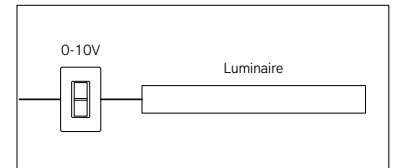
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CORRELATED COLOR TEMPERATURE

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	- Static color temperature 490nm SkyBlue® LED is always on.	- Non-dimming or 0-10V - No BIO-Dimming module required
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
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



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 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.



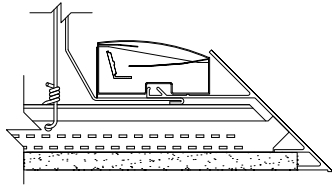
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MOUNTING

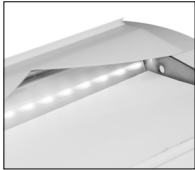
DESCRIPTION



- Use appropriate fastener through Ø 3/16” holes in housing.
- Fixture housing engages with an aligning feature within the cove system.

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	• 8” long piece of diffusion film blends and softens the light distribution on the end wall surfaces.