

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 (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.

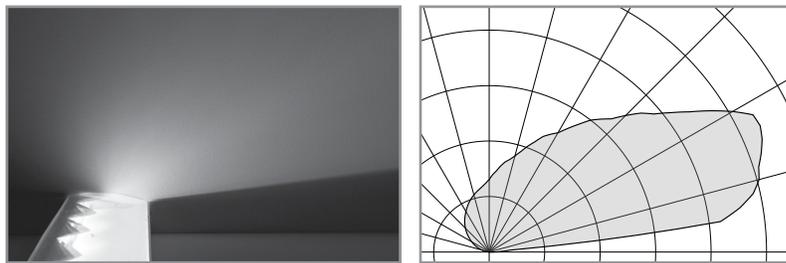
BIOS LEDs have 80+ CRI, R9 90+ and are available in static 3000K, 3500K, 4000K and two dynamic options in 2700-3000K, 2700-3500K and 2700-4000K.

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

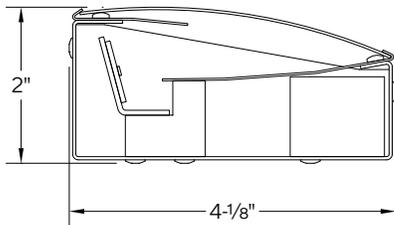
Life: 50,000 hours L₇₀.

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 |



HCB22 -

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.

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

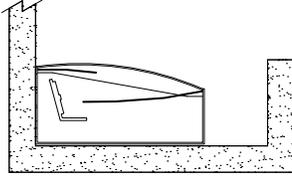
| | ORDERING CODE | DESCRIPTION | SPECIFICATIONS |
|--|---------------|----------------------|---|
| | ED | EMERGENCY LED DRIVER | <ul style="list-style-type: none"> Universal 120-277V input voltage emergency driver delivers initial minimum power of 10W for 90 minutes. Available for 4' nominal length 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.

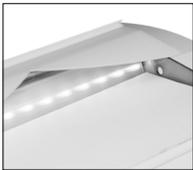
NOTE: A minimum distance of 10" is suggested from the top of the fixture to the ceiling surface for best blending of light.

ACCESSORY

ORDERING CODE

DESCRIPTION

SPECIFICATIONS



HCB22-DF

END OF RUN
DIFFUSION FILM

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