

HCB12 | Swell

2" wide direct/indirect LED luminaire, Illuminated by BIOS®

Project: _____ Type: _____



shown with flush lens option

FEATURES

The Swell Series HCB12 is a linear LED luminaire tailored for health-centric lighting installations. The 2" wide by 3-1/2" high extruded aluminum housing is offered for wall or cable suspended mounting and variety of optic options.

The HCB12 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 constructed of an extruded aluminum housing, extruded acrylic lenses and machined aluminum end caps

Model variations offered for wall mount and cable suspended applications with multiple optic options

Standard finishes as shown below

Available in nominal lengths of 2'-8' single fixtures and continuous runs

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.)

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

Integral 120-277V emergency battery backup available for 6' or 8' nominal, single circuit non-dim or 0-10V (consult factory for all other lengths/drivers)

Standard light outputs range from 680 – 950 lumens per foot for the direct source and 815 - 1175 lumens per foot for the indirect source

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

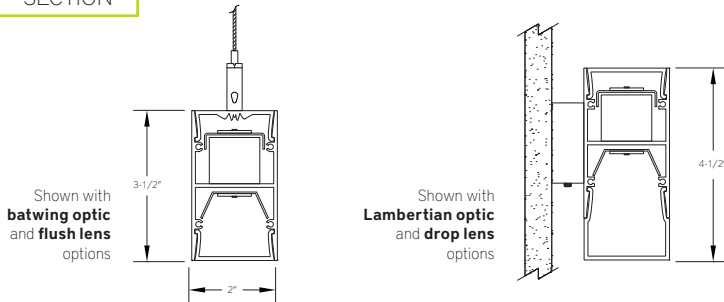
Life: 50,000 hours L₇₀

Limited five year warranty

UL and C-UL listed for dry and damp locations



SECTION



PERFORMANCE

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

NOMINAL LENGTH	OPTIC CONFIGURATION	OUTPUT	LUMENS/ft.	WATTS/ft.	LUMINAIRE LUMENS	EFFICACY (LPW)
4'	Indirect – Lambertian	R: regular	880	8.0	3280	110
		H: high	1175	11.0	4373	107
	Indirect – batwing	R: regular	815	8.0	3022	102
		H: high	1085	11.0	4029	99
	Direct – flush lens	R: regular	680	8.1	2520	84
		H: high	905	11.1	3360	81
	Direct – drop lens, luminous end	R: regular	710	8.1	2643	88
		H: high	950	11.1	3524	85

HCB12 –

NOMINAL FIXTURE LENGTH*

2: 22-5/8" 6: 66-5/8"
3: 33-5/8" 7: 77-5/8"
4: 44-5/8" 8: 88-5/8"
5: 55-5/8"

DRIVER

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

INDIRECT LIGHT OUTPUT

(lumens per foot w/ optic option 1)
R: regular – 880
H: high – 1175
CF: consult factory for custom output

INDIRECT OPTIC

1: general Lambertian distribution
2: batwing distribution

MOUNT

WM: wall mount
C4: cable mount 4' cable length
C8: cable mount 8' cable length
CF: consult factory for custom mounting

OPTIONS

ED: emergency driver (6' or 8' SINGLE CIRCUIT, non-dim or 0-10V only)

FINISH

AW: architectural white (semi-matte)
WH: white (semi-gloss)
BL: black (semi-matte)
MB: matte black
ESS: environmental satin silver
BZ: bronze
PR: primer
CF: consult factory for custom finish
SA: satin anodize (may require additional lead time)

CORRELATED COLOR TEMPERATURE

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

[BIOS dynamic TW]

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

CIRCUIT

1: single circuit
2: two circuit (4' nom. length and longer)

DIRECT LIGHT OUTPUT

(lumens per foot w/ optic option C)
R: regular – 710
H: high – 950
CF: consult factory for custom output

DIRECT OPTIC

A: flush lens
B: drop lens – solid end
C: drop lens – luminous end
D: louver (4' and 8' only)

RUN CONFIGURATION

SN: single
ST: starter
AD: adder
TR: terminator

* Actual dimension dependent on run configuration

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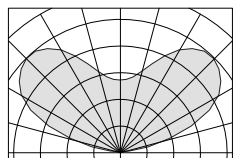
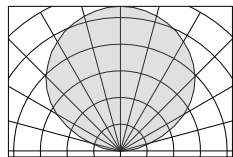
CORRELATED COLOR TEMPERATURE

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 	

INDIRECT OPTIC OPTION





ORDERING CODE	DESCRIPTION	SPECIFICATIONS
1	Lambertian distribution	Frosted extruded acrylic lens for general Lambertian distribution
2	Batwing distribution	Clear extruded acrylic with wide distribution optic features



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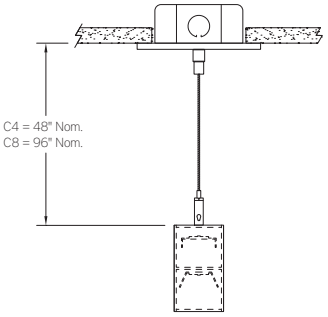
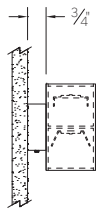
DIRECT OPTIC OPTION

ORDERING CODE	DESCRIPTION	SPECIFICATIONS
	A FLUSH LENS	Flush frosted acrylic extrusion
	B DROP LENS - SOLID END	1" H frosted acrylic extrusion with full height aluminum end cap
	C DROP LENS - ILLUMINATED END	1" H frosted acrylic extrusion with matching acrylic end cap
	D LOUVER	Parabolic louver with 5/8" blades at 1" spacing, formed from diffuse, high reflectance aluminum and supplied with light diffusion film. Available for 4' and 8' nominal length fixtures.

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MOUNTING

	ORDERING CODE	DESCRIPTION
	C4 and C8	<p>CABLE MOUNT</p> <p>Mounting option includes:</p> <ul style="list-style-type: none"> • Ø 1/16" x 48" (C4) or 96" (C8) aircraft cables • 60" (C4) or 108" (C8) power cable in coordinating finish • Bracket bars • Ø 5" white canopies • Ceiling couplers • Side exit cable grippers <p>NOTE: WHEN DUAL CIRCUIT OPTION IS USED, TWO POWER CABLES ARE REQUIRED</p>
	WM	<p>WALL MOUNT</p> <p>Mounting option includes:</p> <ul style="list-style-type: none"> • 1-7/8"H x 2-1/2"W aluminum bracket projects the fixture housing 3/4" from the wall surface

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 SINGLE CIRCUIT 6' or 8' nominal length non-dim or 0-10V fixture and direct light source only (consult factory for all other lengths/drivers)

