HCB12 | Swell

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

b a r t c o
VISIONS BROUGHT TO LIGHT™

Project: _____ Type: _____

shown with flush lens option

bios
ILLUMINATED

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 is Controls Capable, being offered with a variety of integrated control options.

The HBC12 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.

Indirect optic options include Lambertian or batwing distributions while direct options include flush and drop frosted lenses, acrylic Fresnel wall wash lens (for cable mount fixtures) and flat blade louver.

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, depending on optic options.

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.
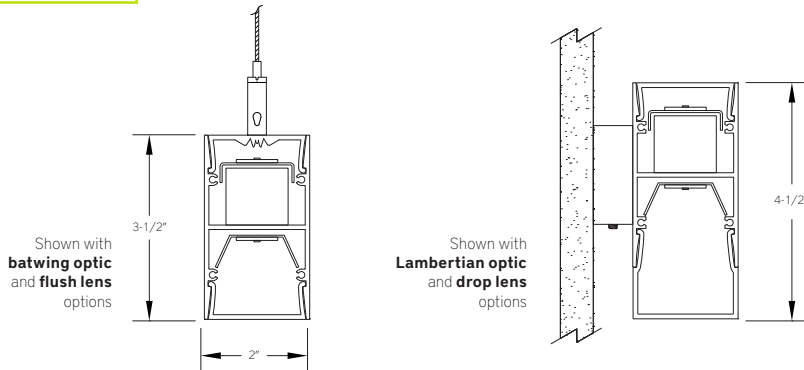
Bartco Lighting Controls Capable fixture available with integrated controls from a variety of suppliers.

Life: 50,000 hours L_{70}.

Limited five year warranty.

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

SECTION

Shown with **batwing optic** and **flush lens** options

3-1/2"

2"

Shown with **Lambertian optic** and **drop lens** options

4-1/2"

PERFORMANCE

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

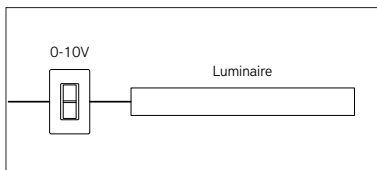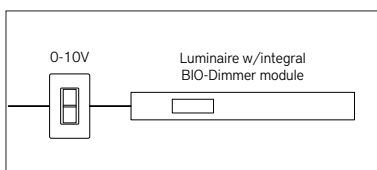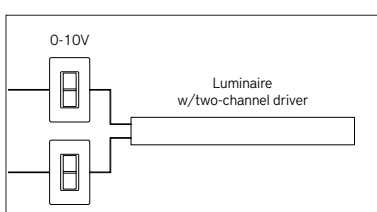Note: All data reflects fixture with BIOS Static Spectrum 3500K LEDs.

Controls Capable

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NOMINAL FIXTURE LENGTH*

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

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

CIRCUIT

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

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% **

DIRECT LIGHT OUTPUT

(lumens per foot w/optic option C)

R: regular – 710
H: high – 950
CF: consult factory for custom output

INDIRECT LIGHT OUTPUT

(lumens per foot w/ optic option 1)

R: regular – 880
H: high – 1175
CF: consult factory for custom output

DIRECT OPTIC

A: flush lens
B: drop lens – solid end
C: drop lens – luminous end
D: louver
E: wall wash

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

RUN CONFIGURATION

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

OPTIONS

ED: emergency driver (6' or 8' SINGLE CIRCUIT, non-dim or 0-10V only)
WS1A: Wattstopper FS-205, 100%-0% ‡
WS1B: Wattstopper FS-205, 100%-50% ‡
EN1: Enlighted FS-D22 ‡
ES4: Philips EasySense SNS211 MC ‡
CA1: Casambi CBU-A2D ‡
NL1: nLight RES7 ‡
NL2: nLight RIO ‡
LA1: Lutron Athena A-WN-D01-RF-WH ‡
LA2: Lutron Athena A-WN-D01-OCC-WH ‡

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)

* Actual dimension dependent on run configuration.
** Consult factory for dimming protocols other than 0-10V.
‡ See Integrated Controls section for driver compatibility information.
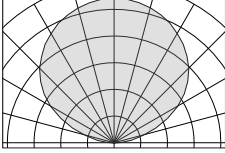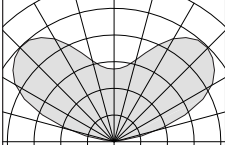
CORRELATED COLOR TEMPERATURE

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/

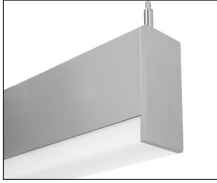| ORDERING CODE	MODULE TYPE	LIGHT EFFECT	CONTROL METHOD	
BS30 BS35 BS40	BIOS Static	• Static color temperature • 490nm SkyBlue® LED is always on.	• Non-dimming or 0-10V • No BIO-Dimming module required	
BD30 BD35 BD40	BIOS Dynamic	• 490nm SkyBlue® LED can be BIO dimmed out with most driver/dimmer combinations. • 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	

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INDIRECT OPTIC

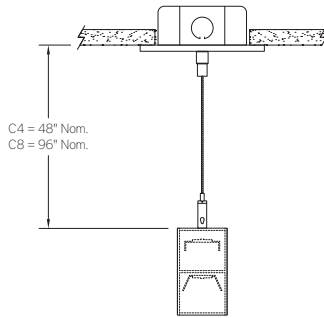|	ORDERING CODE	DESCRIPTION	SPECIFICATIONS
	1	LAMBERTIAN DISTRIBUTION	Frosted extruded acrylic lens for Lambertian distribution.
	2	BATWING DISTRIBUTION	Clear extruded acrylic with wide distribution optic features.

DIRECT OPTIC

	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 – LUMINOUS END	1" H frosted acrylic extrusion with matching acrylic end cap.
	D	LOUVER	2" W Flat blade louver with ⅝" blades at ⅞" spacing, formed from sheet steel. Finish is Environmental Satin Silver (consult factory for alternate finishes). Supplied with light diffusion film.
	E	WALL WASH	Acrylic extrusion with optically engineered Fresnel prisms for wall wash applications. Available for Cable (C4, C8) mounting only. Optimized for placement 18"–24" from a wall surface. Uniformity ratio as low as 4:1.

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MOUNTING

	ORDERING CODE	DESCRIPTION
	C4 and C8	**CABLE MOUNT**

C4 = 48" Nom.
C8 = 96" Nom.

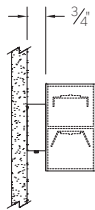**CABLE MOUNT**

Mounting option includes:
- 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

NOTE: WHEN DUAL CIRCUIT OPTION IS USED, TWO POWER CABLES ARE REQUIRED

	WM	WALL MOUNT

¾"

WALL MOUNT

- 1-7⁄8"H x 4-1⁄2"W sheet aluminum bracket projects the fixture housing ¾" from the wall surface.
- Bracket finish matches fixture finish, or ESS for satin anodize (SA) housing.

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 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).

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OPTIONS – INTEGRATED CONTROLS

Note: Control option takes up 4" of the overall lens length.
For "A", "D" and "E" optic option, controls are mounted to flush filler piece.
For "B" and "C" optic option, controls are mounted to 1" H sheet formed cover.

Controls Capable

	ORDERING CODE	LIGHT OUTPUT SETTING	MODEL	CONTROL PROTOCOL	FUNCTIONS	COMPATIBLE DRIVERS
legrand® WATTSTOPPER®	WS1A	100% – 0% [1]	FS-205	N/A	PIR occupancy and light level sensor.	For use with on/off or 0-10V dimming drivers only.
	WS1B	100% – 50% [1]				
Enlighted	EN1	Set during commisioning	FS-D22	Bluetooth Wireless	PIR occupancy, ambient light sensing, daylight harvesting, and environment monitoring for use within an Enlighted control network.	Provided with Advance sensor ready series 0-10V dimming drivers.
PHILIPS EasySense	ES4	Set during commisioning	SNS211 MC	Bluetooth Wireless	Occupancy, daylight harvesting and task tuning sensor with advance grouping, for use within a MasterConnect network.	Provided with Advance sensor ready series 0-10V dimming drivers.
CASAMBI	CA1	Set during commisioning	CBU-A2D	Bluetooth Wireless	0-10V/DALI driver controller, for use within a Casambi ecosystem.	For use with 0-10V or DALI drivers. Consult factory for details.
nLIGHT	NL1	Set during commisioning	RES7 [2]	Radio Wireless	Dimming, PIR occupancy detection and daylight harvesting, for use within an nLight AIR network.	Provided with Advance sensor ready series or eldoLED 0-10V drivers.
	NL2		RIO [2]		Dimming, for use within an nLight AIR network.	
LUTRON	LA1	Set during commisioning	A-WN-D01-RF-WH	Radio Wireless	Dimming only for use with an Athena control system.	Provided with Advance sensor ready series or eldoLED 0-10V or eldoLED DALI-2 drivers.
	LA2		A-WN-D01-OCC-WH		Dimming, PIR occupancy and daylight sensor for use with an Athena control system.	

1. Consult factory for custom light output setting.
2. Consult your Acuity representative for application-specific model number.

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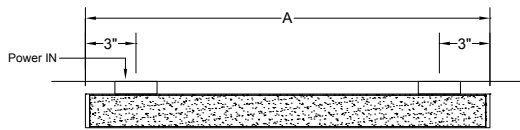2" wide direct/indirect LED luminaire, Illuminated by BIOS®

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LENGTH/MOUNTING DIMENSIONS

ORDERING CODE	LENGTH A	LENGTH B	LENGTH C	LENGTH D	LENGTH E
2	22-5/8"	22-3/8"	22-1/8"	21-1/8"	21-5/8"
3	33-5/8"	33-3/8"	33-1/8"	32-1/8"	32-5/8"
4	44-5/8"	44-3/8"	44-1/8"	43-1/8"	43-5/8"
5	55-5/8"	55-3/8"	55-1/8"	54-1/8"	54-5/8"
6	66-5/8"	66-3/8"	66-1/8"	65-1/8"	65-5/8"
7	77-5/8"	77-3/8"	77-1/8"	76-1/8"	76-5/8"
8	88-5/8"	88-3/8"	88-1/8"	87-1/8"	87-5/8"

RUN CONFIGURATION INFORMATION

ORDERING CODE	DESCRIPTION
SN	Single
ST	Starter
AD	Adder
TR	Terminator

RUN INFORMATION

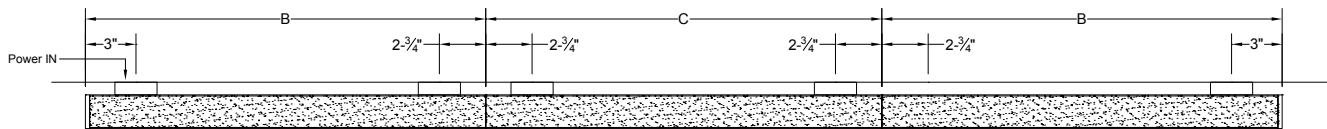Plan - Wall Mount Single Fixture Option

Power IN — 3"   A   3"

SN

Plan - Wall Mount Continuous Run Option

Power IN — 3"   B   2-3/4"   2-3/4"   C   2-3/4"   2-3/4"   B   3"

ST   AD   TR
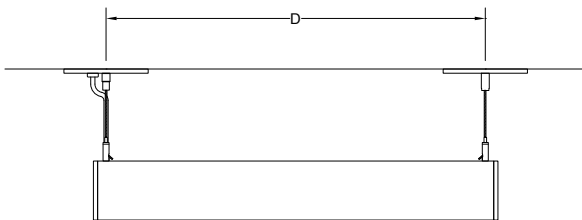
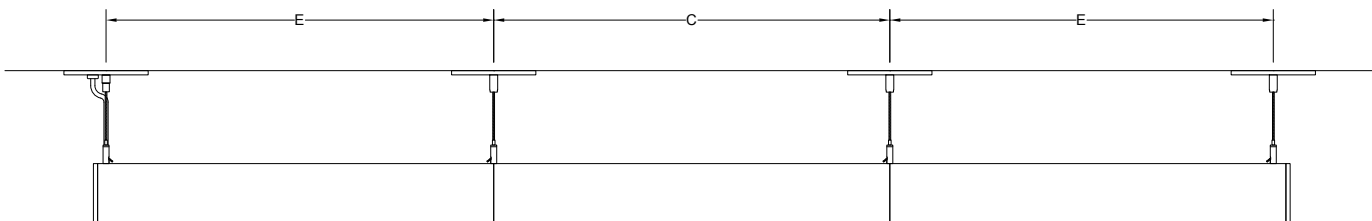Side View - Cable Suspended Single Fixture Option

D

SN

Side View - Cable Suspended Continuous Run Option

E   C   E

ST   AD   TR