# SCONCE | BOX

## BalancedCare™
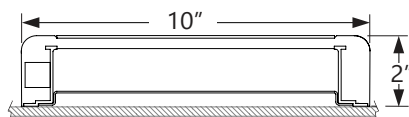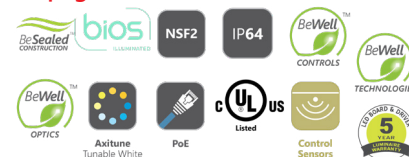

Vertical shown

10″
2″

**Project** _____

**Type** _____

**Notes** _____
_____

- Designed with comfortable BeWell Optics providing ambient lighting and wall glow
- White CCT (2700K-4000K) or Tunable White 2700K - 5000K
- Amber nightlight option to aid navigation
- Detachable backplate for quick-disconnect and room-side access to driver
- Horizontal or vertical orientation, surface mounting in multiple lengths
- Shallow depth - 2" - exceeds ADA compliance
- BIOS and tunable white available in select sizes
- UL Listed IP64 for both indoor and outdoor applications
*See performance chart on page 4.

BeSealed CONSTRUCTION | bios ILLUMINATED | NSF2 | IP64 | BeWell™ CONTROLS | BeWell™ TECHNOLOGIES

BeWell™ OPTICS | Axitune Tunable White | PoE | c UL us Listed | Control Sensors | 5 YEAR WARRANTY LED BOARD & DRIVER

*Patent pending

## Ordering Guide

| | | | | | |
|---|---|---|---|---|---|
| **BCSB** | | | | | |
| PRODUCT ID | WIDTH | LENGTH | MOUNTING ORIENTATION | CRI | COLOR TEMP. |
| **BCSB** Sconce box | **10** 10″ | **12** 12″<br>**18** 18″ *<br>**24** 24″<br>**36** 36″ | **H** horizontal<br>**V** vertical | **80** 80 CRI<br>**90** 90 CRI * | **27** 2700 K<br>**30** 3000 K<br>**35** 3500 K<br>**40** 4000 K<br>**B30** 3000 K - Bios*<br>**B35** 3500 K - Bios*<br>**B40** 4000 K - Bios*<br>**TW2750** 2700-5000 K - Tunable White** |
| | | * Not available with BIOS and Tunable White. | | * Not available with BIOS | *Consult BIOS guide for more information on BIOS technology. Only available with 80 CRI. Not available for 18″ length<br>** Consult factory for Tunable White. Consult Axitune technical sheet for more information on color technology. |

| | | | | |
|---|---|---|---|---|
| FINISH | VOLTAGE | DRIVER | CIRCUITS (OPT.) | NIGHTLIGHT (OPT.) |
| **AMW** antimicrobial white<br>**AMA** antimicrobial aluminum paint<br>**C** custom* | **120** 120 V<br>**277** 277 V<br>**347** 347 V*<br>**UNV** universal<br>**DC** low voltage** | **DP** dimming (0-10V) 1%<br>**LT(#)** Lutron (remote)*<br>**BI** bi-level dimming (remote)<br>**O(#)** other (remote)**<br>**DPB(#)** dimming (0-10V) 1% with Bios*<br>**TW(#)** tunable white drivers (remote)*<br>**POE(#)** POE drivers (remote)* | **+E(#)** emergency section<br>**+GTD(#)** generator transfer device* | **NTLA** amber nightlight |
| * Consult factory for NSF | * With remote driver only.<br>** Only available with POE drivers. | Consult factory for Tunable White<br>* See page 2 to specify system<br>** Please consult factory; see page 2. | 1 circuit standard, 2 circuits with optional nightlight.<br>* Consult factory. Remote. | Available only in vertical mounting position. |

| | | |
|---|---|---|
| LV CONTROLLER (OPT.) | BATTERY (OPTIONAL) | OTHER |
| **LVC1** low voltage controller (Mode 1)<br>**LVC2** low voltage controller (Mode 2)<br>**LVCD3** low voltage controller (Mode 3 step dim)<br>**LVCD4** low voltage controller (Mode 3 smooth dim) | **B(#)** battery pack (remote) | **F** fuse |
| Controllers are remote only.<br>Remote enclosure by others.<br>SEE WIRING DIAGRAMS ON PAGE 3-4 | Not available with 347V | Requires 120V or 277V |

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November 20, 2020

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## ● LIGHT GUIDE

High precision light guide made of PMMA material, allows distribution of controlled light in all 3-dimensions to put light on both vertical and horizontal planes within the space. Patented lightguide design featuring molecular optics and precision-coupled optic components yield a high efficiency luminaire.

## ● ELECTRICAL

| | |
|---|---|
| **Lutron driver*** **(remote only)** | **LDE1 -** Hi-lume 1% EcoSystem with Soft-on, Fade-to-Black<br>**LDE5 -** 5-Series EcoSystem<br>**LTEA -** Hi-lume 1% 2-wire (120V forward phase only)<br>*Consult factory |
| **Other drivers**** **(remote only)** | **DALI -** Digital Addressable Lighting Interface<br>**DMX -** Digital Multiplex<br>**LV -** line voltage - Advance Mark 10<br>**Xitanium SR -** For wireless sensor |
| **BIOS DPB drivers*** | **STC -** BIOS control 0-10V with static spectrum and BIOS SkyBlue enabled from 100% to 1%.<br><br>**DYN-** BIOS control 0-10V with dynamic spectrum and BIOS SkyBlue® with Bio-Dimming™ enabled 100% to 50%, light output dimming from 49% to 1%. |
| **Tunable White TW drivers*** **(remote only)** | **DALIDT6 -** DALI Type 6 (Two DALI Addresses)<br>**DALIDT8 -** DALI Type 8 ( One DALI Address)<br>**LTTW -** Lutron T-Series Tunable White |
| **Power over Ethernet POE drivers*** **(remote, consult factory for more information)** UL2108 certified for integral or remote driver | MOLEX<br>IGOR<br>**O -** Other (Consult factory) |
| **Emergency (remote only)** Consult factory | Emergency battery pack or emergency circuit optional. |
| **Input Voltage** | 120V, 277V, 347V (Remote driver only), UNV, DC. |

*Choose driver from available options.

ⓘ Incorporating these components may have limitations or affect the length of the luminaire. Please contact factory for more details.

## ● CONSTRUCTION

| | |
|---|---|
| **Housing** | Extruded aluminum (0.075" nominal) |
| **End Cap** | Die cast aluminum (0.10" nominal) |
| **Top Covers** | Extruded aluminum |
| **Smooth Lens** | Uniform acrylic lens |

ⓘ Specification sheets for wall mounted Sconce luminaires are available at: www.balancedcare.axislighting.com under 'Downloads' tab.

## ● WARRANTY

BalancedCare™ by Axis Lighting will warrant defective LEDs, boards, and drivers for 5 years from date of purchase. Warranty is valid if luminaire is installed and used according to specifications.
If defective, BalancedCare™ will send replacement boards or drivers at no cost along with detailed replacement instructions and instructions on how to return defective components to BalancedCare™.

## ● OPTICS

**BeWell™ Optics**

BalancedCare™ BeWell™ light guide technology provides the visually comfortable distribution required in healthcare environments.

## ● LED SYSTEM

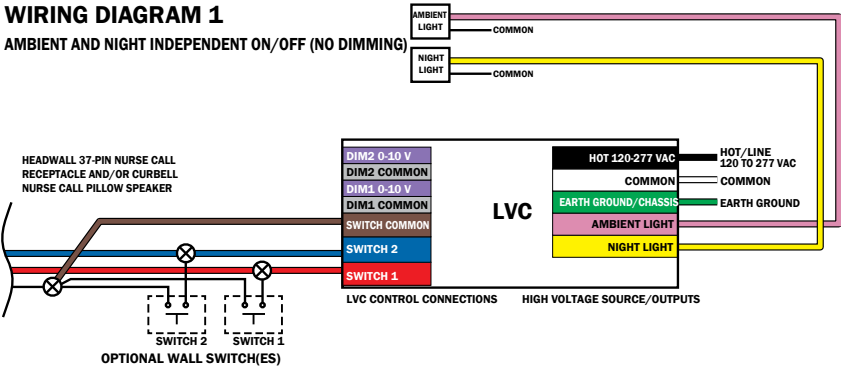| | |
|---|---|
| **CRI** | Minimum 80 or 90 color rendering index options. |
| **CRI BIOS** | Minimum 80 color rendering index with R9>75 for all CCTs. |
| **CCT Single Color** | Choice of 2700K, 3000K, 3500K and 4000K color temperature with a great color consistency (within 3–step MacAdam ellipse). Both within fixture and fixture to fixture. |
| **CCT BIOS** | BIOS Static (STC) Choice of 3000K, 3500K and 4000K.<br>BIOS SkyBlue® Dynamic (DYN) Choice of 3000K, 3500K, and 4000K with Bio-Dimming™<br><br>Consult BIOS guide for more information on BIOS technology. |
| **CCT Axitune Systems** | Consult Axitune technical sheet for more information on color technology. |
| **LED life** | Minimum 50,000h with 85% of lumen maintenance in 25⁰C ambient temperature, in compliance with IES LM-80 testing measurements. |
| **Thermal Management** | Aluminum housing acting as the heat sink to maximize life. |
| **Environment** | For all line voltage drivers, dry and damp rated for ambient operating temperature of -20° to +40°C (-4° to+104°F)<br>For POE driver option, dry and damp rated for ambient operating temperature of 0° to +40°C (+32° to+104°F)<br>Consult factory for temperature outside this range. |

## ● MOUNTING DETAILS
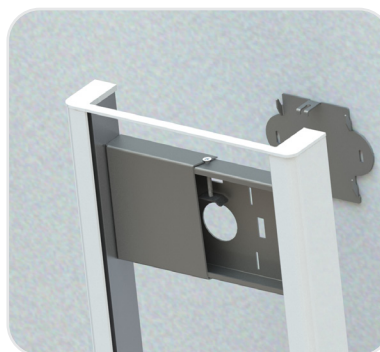


ⓘ Installation sheets are available at: www.balancedcare.axislighting.com

● *LOW VOLTAGE CONTROLLERS - CONFIGURATIONS*

| | | MODE #1 (DEFAULT) | MODE #2 | MODE #3 | |
| --- | --- | --- | --- | --- | --- |
| | | Ambient Light and Night Light Independent (ON/OFF) | Ambient Light and Night Light Sequential | Ambient Light Dimming, Night Light Independent (ON/OFF) | |
| | | | | Step Dimming (one direction) | Smooth Dimming (two direction) |
| **Toggling Switch 1 (Pillow Speakers, wall switch) affects Ambient Light as follows:** | **First Toggle** | Ambient ON | Ambient ON, Night Light OFF | Ambient ON, Full brightness | First toggle: Ambient ON, dim level set to Approx. 100% brightness<br><br>Subsequent sustained presses: smooth dimming*<br><br>Second toggle: Ambient OFF |
| | **Second Toggle** | Ambient OFF | Ambient OFF, Night Light ON | Ambient ON, Approx. 60% (4 VDC) brightness | |
| | **Third Toggle** | - | Ambient ON, Night Light ON | Ambient ON, Approx. 30% (1.37 VDC) brightness | |
| | **Fourth Toggle** | - | Ambient OFF, Night Light OFF | Ambient ON, Approx. 10% (0.8 VDC) brightness | |
| | **Fifth Toggle** | - | - | Ambient OFF | |
| **Toggling Switch 2 (Pillow Speakers, wall switch) affects Night Light as follows:** | **First Toggle** | Night Light ON | - | Night light ON | Night light ON |
| | **Second Toggle** | Night Light OFF | - | Night light OFF | Night light OFF |
| | **Third Toggle** | - | - | - | - |
| | **Fourth Toggle** | - | - | - | - |
| | **Fifth Toggle** | - | - | - | - |

## ● *LOW VOLTAGE CONTROLLERS WIRING DIAGRAMS*

### WIRING DIAGRAM 1
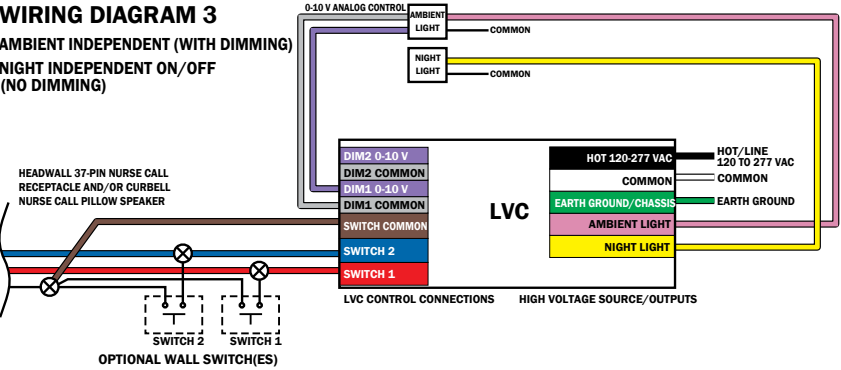**AMBIENT AND NIGHT INDEPENDENT ON/OFF (NO DIMMING)**

AMBIENT LIGHT — COMMON
NIGHT LIGHT — COMMON

HEADWALL 37-PIN NURSE CALL RECEPTACLE AND/OR CURBELL NURSE CALL PILLOW SPEAKER

| LVC CONTROL CONNECTIONS | | HIGH VOLTAGE SOURCE/OUTPUTS |
| --- | --- | --- |
| DIM2 0-10 V | | HOT 120-277 VAC — HOT/LINE 120 TO 277 VAC |
| DIM2 COMMON | | COMMON — COMMON |
| DIM1 0-10 V | LVC | EARTH GROUND/CHASSIS — EARTH GROUND |
| DIM1 COMMON | | AMBIENT LIGHT |
| SWITCH COMMON | | NIGHT LIGHT |
| SWITCH 2 | | |
| SWITCH 1 | | |

SWITCH 2   SWITCH 1
**OPTIONAL WALL SWITCH(ES)**

### WIRING DIAGRAM 2
**AMBIENT AND NIGHT SEQUENTIAL**

AMBIENT LIGHT — COMMON
NIGHT LIGHT — COMMON

HEADWALL 37-PIN NURSE CALL RECEPTACLE AND/OR CURBELL NURSE CALL PILLOW SPEAKER

| LVC CONTROL CONNECTIONS | | HIGH VOLTAGE SOURCE/OUTPUTS |
| --- | --- | --- |
| DIM2 0-10 V | | HOT 120-277 VAC — HOT/LINE 120 TO 277 VAC |
| DIM2 COMMON | | COMMON — COMMON |
| DIM1 0-10 V | LVC | EARTH GROUND/CHASSIS — EARTH GROUND |
| DIM1 COMMON | | AMBIENT LIGHT |
| SWITCH COMMON | | NIGHT LIGHT |
| SWITCH 2 | | |
| SWITCH 1 | | |

SWITCH 1
**OPTIONAL WALL SWITCH(ES)**

### WIRING DIAGRAM 3
**AMBIENT INDEPENDENT (WITH DIMMING)**

**NIGHT INDEPENDENT ON/OFF (NO DIMMING)**

0-10 V ANALOG CONTROL
AMBIENT LIGHT — COMMON
NIGHT LIGHT — COMMON

HEADWALL 37-PIN NURSE CALL RECEPTACLE AND/OR CURBELL NURSE CALL PILLOW SPEAKER

| LVC CONTROL CONNECTIONS | | HIGH VOLTAGE SOURCE/OUTPUTS |
| --- | --- | --- |
| DIM2 0-10 V | | HOT 120-277 VAC — HOT/LINE 120 TO 277 VAC |
| DIM2 COMMON | | COMMON — COMMON |
| DIM1 0-10 V | LVC | EARTH GROUND/CHASSIS — EARTH GROUND |
| DIM1 COMMON | | AMBIENT LIGHT |
| SWITCH COMMON | | NIGHT LIGHT |
| SWITCH 2 | | |
| SWITCH 1 | | |

SWITCH 2   SWITCH 1
**OPTIONAL WALL SWITCH(ES)**

1. LVC Mode 1 (independent ON/OFF no dimming) DEFAULT mode

2. LVC mode 2 (sequential ON/OFF no dimming)

3. LVCD Mode 3 step dimming (Ambient Light-dimming, Night Light ON/OFF)

4. LVCD Mode 3 smooth dimming (Ambient dimming, Night Light ON/OFF)

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## PERFORMANCE AT 3500K

| WIDTH | NOMINAL LUMEN OUTPUT | INPUT WATTS* | EFFICACY | Estd. L85 LED Life (hrs.) |
|---|---|---|---|---|
| 10'' | 830 lm | 11.49 W | 72 lm/W | 50000, min |

* Based on a 10 inch luminaire using one driver
Please consult factory for custom lumen output and wattage.

## ● PHOTOMETRIC DATA

### PHOTOMETRIC CURVE
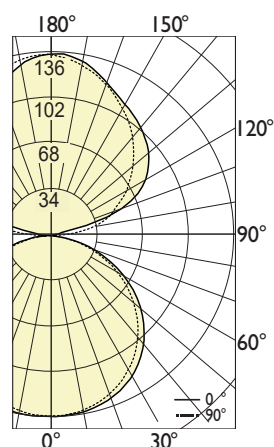


**Luminaire Lumens: 830 lm**
**Input Watts: 11.49 W**
**Efficacy: 72 lm/W**
IES FILE: BCSB-1000-80-35-FL-12x10-W-UNV-D-1.ies

TESTED ACCORDING TO IES LM-79-2008

### CANDELA DISTRIBUTION

| Vertical Angle | Horizontal Angles | | | | |
|---|---|---|---|---|---|
| | 0 | 22.5 | 45 | 67.5 | 90 |
| 0 | 135 | 135 | 135 | 135 | 135 |
| 5 | 135 | 135 | 135 | 135 | 134 |
| 15 | 133 | 133 | 132 | 132 | 131 |
| 25 | 128 | 127 | 126 | 124 | 123 |
| 35 | 117 | 117 | 115 | 113 | 111 |
| 45 | 102 | 101 | 99 | 96 | 95 |
| 55 | 81 | 81 | 79 | 76 | 75 |
| 65 | 57 | 57 | 56 | 54 | 53 |
| 75 | 31 | 31 | 31 | 29 | 29 |
| 85 | 9 | 9 | 8 | 8 | 7 |
| 90 | 1 | 2 | 4 | 4 | 2 |
| 95 | 3 | 8 | 15 | 18 | 19 |
| 105 | 30 | 32 | 37 | 42 | 44 |
| 115 | 74 | 64 | 56 | 58 | 59 |
| 125 | 92 | 85 | 76 | 74 | 75 |
| 135 | 103 | 98 | 93 | 90 | 91 |
| 145 | 111 | 107 | 105 | 104 | 105 |
| 155 | 118 | 117 | 116 | 117 | 117 |
| 165 | 129 | 128 | 128 | 128 | 127 |
| 175 | 136 | 135 | 135 | 134 | 133 |
| 180 | 135 | 135 | 135 | 135 | 135 |

### ZONAL LUMENS

| Zone | Lumens |
|---|---|
| 0 | |
| 0-10 | 13 |
| 10-20 | 37 |
| 20-30 | 57 |
| 30-40 | 71 |
| 40-50 | 74 |
| 50-60 | 68 |
| 60-70 | 52 |
| 70-80 | 29 |
| 80-90 | 8 |
| 90-100 | 14 |
| 100-110 | 39 |
| 110-120 | 59 |
| 120-130 | 70 |
| 130-140 | 71 |
| 140-150 | 65 |
| 150-160 | 53 |
| 160-170 | 36 |
| 170-180 | 13 |
| 180 | 0 |

### LUMINANCE DATA (cd/m²)

| Vertical Angle | Horizontal Angles | | |
|---|---|---|---|
| | 0 | 45 | 90 |
| 45 | 2355 | 2295 | 2200 |
| 55 | 2318 | 2250 | 2144 |
| 65 | 2208 | 2151 | 2033 |
| 75 | 1986 | 1930 | 1806 |
| 85 | 1635 | 1549 | 1363 |

ⓘ All IES files are available for download at: www.balancedcare.axislighting.com

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