

4"

BOLD-4-SHAL-WW-TWH

4" TWH Architectural Shallow Wallwash Round Downlight - Trim, Trimless & Millwork **Bold Series**



APPLICATION & FEATURES

BOLD-4-SHAL-WW-TWH Wallwash is a specification-grade architectural LED luminaire designed to provide exceptional uniformity and smooth wall illumination. With field-changeable optics and tool-less trim interchangeability, BOLD-4-SHAL-WW-TWH Wallwash ensures consistent, glare-free light distribution across vertical surfaces, creating visually engaging environments without harsh shadows or hotspots. Its precise beam angles are optimized for wall washing, enhancing architectural elements with a seamless, even light coverage.

Available in three distinct housing options—flanged, trimless, and millwork—BOLD-4-SHAL-WW-TWH Wallwash adapts to a variety of ceiling conditions, offering a sleek, integrated aesthetic. The system features 98 CRI with 1x2 Step MacAdam Ellipse color consistency, ensuring perfect color accuracy and visual harmony. Additionally, it supports multiple dimming protocols down to 0.1%, allowing for complete control over light levels to create the desired ambiance.

Perfect for commercial, hospitality, retail, institutional, civic, cultural, corporate, academic, healthcare, luxury residential, gallery, and museum environments, BOLD-4-SHAL-WW-TWH Wallwash enhances the architectural beauty of any space while providing optimal wall illumination.

As part of the BOLD family, which includes downlight and adjustable accent options, BOLD-4-SHAL-WW-TWH offers both static and dynamic color technologies, enabling you to meet the evolving demands of high-performance lighting design.

LUMENS	900L, 1200L, 1500L and 2000L
CCT & DYNAMIC PLATFORMS	18K-40K and 27K-65K
CRI	90+
COLOR QUALITY	2 Step MacAdam Ellipse
DRIVER	DIM10, ELDODALI.1 and BLE-CASAMBI
TRIM OPTIONS	Wallwash: Flanged, Trimless, Millwork
FINISH OPTIONS	Diecast: White (WH), Black (BK), Custom Color (RAL)
EMERGENCY	EMG-10, EMG-20, EMG-10-SDT, EMG-20-SDT and GTD
LIFETIME	LED is rated for >60,000 hours at 70% lumen maintenance
PHOTOMETRIC TESTS	In Accordance with IES LM79-08, LM80 and TM-30, TM-27

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Tunable White: **BOLD-4-SHAL-WW-TWH-900L-18K-40K-90-DIM10-MVOLT**

Series	Lumens	CCT	CRI	Driver	Voltage	Emergency	Options
BOLD-4-SHAL-WW-TWH	900L	18K-40K	90+	DIM10	MVOLT	-	-
	1200L	27K-65K		ELDODALI.1		All emergency options require top access, remote emergency test switch included	RIF
	1500L			BLE-CASAMBI		EMG-10	REM 2
	2000L					EMG-20	Single Remote Dimming Driver
						EMG-10-SDT	BABA
						EMG-20-SDT	Made in America Compliance
						GTD	

98+ CRI is available only on 27K, 30K and 40K 1 DIMTR is only available with 120V 2 347V is only available with DIM10 3 Remote mount Maximum distance from light fixture to remote power supply is 100' using 14 gauge wire, 50' using 16 gauge wire

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FLANGED REFLECTOR TYPE

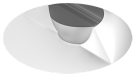
Example: **B4R-407-DC-F-W-WH**

Trim Option	Trim Construction	Trim Flange Opt.	Reflector Finishes	Flange Finishes
 B4R-407 Solite Lens Wallwash WET LOCATION	DC Diecast	F Flanged	W White BK Black RAL Custom Color (Consult Factory)	WH White BK Black RAL Custom Color (Consult Factory)

Note: All extra optical accessories, aperture assemblies, and optics can be ordered separately. Check our website for ordering nomenclature.

TRIMLESS/MILLWORK REFLECTOR TYPE

Example: **B4R-407-TL-MW-DC-TL-WH**

Trim Option	Trim Construction	Trim Flange Opt.	Reflector Finishes
 B4R-407 Trimless Solite Lens Wallwash WET LOCATION	DC Diecast	TL Trimless DMW Diecast Millwork	WH White BK Black RAL Custom Color (Consult Factory)

Note: All extra optical accessories, aperture assemblies, and optics can be ordered separately. Check our website for ordering nomenclature.

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DESCRIPTION

The BOLD-4-SHAL-WW-TWH Wall Wash delivers smooth, even illumination across vertical surfaces with architectural precision. Its fixed optical assembly is engineered to maintain uniform light distribution from ceiling to floor, eliminating hot spots and scalloping. The reflector and lens system are optimized to deliver maximum wall uniformity while keeping glare to a minimum—supporting quiet ceilings and visual comfort in any space.

LED LIGHT ENGINE

The BOLD platform features a patent-pending heat sink and LED module system that unlocks effortlessly from the housing with a simple twist—no tools required. Once released, the entire assembly drops below the ceiling line, allowing fast, easy replacement or upgrade of the LED light engine. **Exceptional Optical Quality:** The precision-engineered light engine comes standard with 90+ CRI and maintains 1×2 Step MacAdam Ellipse consistency, ensuring accurate, uniform color across every luminaire.

Unlike traditional systems where all components are buried inside the housing and difficult to service, BOLD's intuitive below-ceiling access makes maintenance and adding additional accessories dramatically easier—setting a new standard for architectural lighting flexibility.

FIELD-CHANGEABLE OPTICS AND ACCESSORIES

Designed for adaptability, the BOLD platform enables efficient in-field customization. By unscrewing the cap on the heat sink, technicians can easily swap optics or add optical accessories—ensuring optimal light output and refined beam control without tools or reinstallation. This modular approach supports a wide array of field-changeable accessories, including spread lenses, frosted lenses, color filters, and honeycomb louvers, allowing for precise post-installation tuning.

A full range of beam options—from extremely narrow to wide—provides the flexibility to tailor light distribution with precision, whether emphasizing architectural elements or delivering broad ambient illumination. Field-changeable optics make it easy to respond to evolving design needs or spatial conditions directly on-site. For added control, the LED module offers three fixed vertical positions within the housing. This design provides the flexibility to fine-tune both visual comfort and lighting performance to meet the specific demands of any space.

TRIM & COLLAR CONFIGURATIONS

Trimless: Designed for drywall or plaster ceilings, the die-cast spackle collar allows joint compound to be applied directly to the edge for a seamless, mudded-in finish. It mounts securely to the housing to prevent ceiling cracks during or after installation.

Millwork: For wood, tile, or stone ceilings, the millwork collar is finished to match the specified trim and ensures clean, stable integration with thicker or non-standard ceiling materials.

Flanged: Ideal for gypsum or ACT ceilings, flanged trims provide a clean, finished appearance with a subtle bezel that frames the aperture while maintaining optical performance and glare control.

COLLAR AND COLLAR EXTENDER OPTIONS

Each BOLD housing comes standard with a 1-inch collar. Optional collar extenders are available in 1.5-inch and 2-inch sizes to accommodate ceiling thicknesses up to 2". These extenders add minimal height and have a slight impact on light output. Consult factory for details and additional collar options.

TRIM CONSTRUCTION

With dual trim construction and an extensive library of finish options, BOLD trims empower lighting designers to achieve both technical precision and visual harmony in any space.

Anodized Aluminum: Designed for visual comfort, anodized trims recess, enhancing glare control and supporting quiet ceilings in high-performance architectural environments. The electrochemical finish ensures long-term reflectance and material integrity.

Die-Cast: Die-cast trims provide sharp detailing, precise fit, and the ability to seamlessly blend into the ceiling plane with high-quality painted finishes. Ideal for minimalist spaces where integration and consistency are key.

WALLWASH TRIM

The wall wash housing offers 360° rotation and up to 30° tilt. This range of movement allows the wall wash housing to be positioned and directed in either direction along the wall, ensuring precise control of light placement for uniform illumination across the vertical surface. Hot aiming further ensures accurate, permanent positioning.

HOUSING

The housing is engineered for shallow plenum spaces, with a compact 2 1/2-inch height that provides a low-profile solution without compromising performance.

Constructed from 18-gauge cold-rolled steel, it ensures durability and efficient thermal management with a matte black powder-coated finish.

Housing is Non-IC rated and may not be installed in direct contact with insulation; a minimum clearance of 3 inches must be maintained from all insulation materials to ensure proper thermal performance. Integrated thermal protection prevents overheating in high-ambient conditions. The 90°C-rated junction box includes multiple 1/2" knockouts and supports 4-in/4-out through-branch wiring.

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Each housing includes heavy-duty, pre-installed bar hangers designed for flexible installation across a variety of ceiling types. Hangers extend to span joists up to 24" on center and can be repositioned along both the short and long axis of the housing. For narrower joist bays, hangers can be shortened to accommodate 12" spacing. The system includes integral butterfly brackets fabricated from 18-gauge steel, providing vertical adjustment for accurate alignment with ceiling thickness. These brackets are compatible with 3/4" or 1-1/2" lathing channels, 1/2" EMT conduit, and optional C-channel bars for secure attachment in commercial grid ceilings. Additional mounting slots and keyholes allow for versatile integration into T-bar ceilings or unconventional framing layouts.

DRIVER ACCESS & SERVICEABILITY

The BOLD platform includes a high-performance, constant-current electronic driver (0–10V dimming, 100%-1%) with integral thermal and surge protection compliant with IEEE C62.41. The driver is conveniently located within the housing and can be easily accessed from below the ceiling. Simply unlock the heat sink and LED module from the housing's holder with a simple twist.

EMERGENCY OPTIONS/CONTROLS

10W or 20W emergency back-up battery systems are available with a remote mounted test switch. A self-diagnostic emergency option is also available. Other accessories and controls systems include modular wiring systems, daylight harvesting controls, occupancy sensors, and/or power packs for individual or room control applications, and triac, dali and DMX protocols.

TUNABLE WHITE OPTION

Tunable White allows the luminaires to be color tuned via various controls. Create the perfect environment for the desired use of the space or mimic the natural color patterns throughout the day and stimulate circadian rhythm. Available in tuning range of 50K-27K (TWH-50K-27K), 65K-27K (TWH-65K-27K).

RGB+WHITE OPTION

Refine your space with RGB+W, which provides complete control over hue, color temperature, saturation, and dimming for design versatility. RGB + White technology has a color tuning range from 1800K to 6500K. RGB color range derived from the primary colors red, green and blue is used to create infinite color options in the RGB palette, adding colors together in varying amounts to create new ones. RGB + White technology enables users to adjust the color temperature, adding gradients of saturated colors. No longer restricted to white light LEDs, lighting designers and architects can manipulate a space with desired hues and shades, altering the color temperature of the room, creating the perfect environment. The use of RGB Tunable White technology in allows infinite possibilities for any application

DIMMING & DRIVER INFORMATION

[!\[\]\(799877f5c2f906134441300079881630_img.jpg\) **DIM10**](#) - 0-10V dimming on either MVOLT 120, 277 or 347V. Dimmable down to 1% of initial lumens, standard

[!\[\]\(41aea2746216b27a6939d696d8e035da_img.jpg\) **ELDODALI.1**](#) - EldoLED SoloDrive DALI-2. Dimming down to 0.1%

[!\[\]\(7bc43b319a082987e20f7bf78f4bab80_img.jpg\) **BLE-CASAMBI**](#) - Luminaires may be controlled, grouped, scheduled or placed in scenes , and or zones Via Cassambi Bluetooth 4.0 App.

WARRANTY

Five-year warranty for parts and components. (Labor not included)

LISTINGS

- c-UL-us: Listed for Wet Location when used with wet-location rated trims
- c-UL-us: Listed for Feed-Through Wiring
- Energy Star and California Title 24 compliant (JA8)
- Optional Black color trim is not Energy Star certified and will not meet the requirements
- 22K and 27K are not Energy Star listed and will not meet the requirements
- BABA Compliant for government procurement under FAR, DFARS, and DOT regulations.

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Flanged	Trimless	Millwork

BRAND							
CONTROL UNIT	☐ FCJS-010 Lutron Vive 0-10V Individual Pow Pak (Luminare is shipped Vive Enabled) 1 4 ☐ FCJS-ECO Lutron Vive Eco-system Pow Pak (Luminare is shipped Vive Enabled) ☐ A-WN-D01-RF-WH Athena wireless node (RF only) (White) ☐ A-WN-D01-OCC-WH Athena wireless node with sensor (White)	☐ CU-4E-FMH Fixture Mount Control Unit 1 5	☐ ZL027-NOW Intellect Power Control Module 1 6 ☐ ZL027-DLE Intellect Power Control Module 1 6	☐ EN-WCM2-ZB-DR Wireless Control Module 1 7 ☐ ENA-LC-ZB-BK-DR Wireless Area Lighting Control Module 1 7	☐ XITANIUM SR LED DRIVER The Philips Advance Xitanium SR LED driver 1 8	☐ LMFC-011 ON/OFF/0-10V dimming fixture controller 1 9 ☐ FS-PP-V2 FS-PP Fixture Integrated Sensor Power Pack 1 9 ☐ LMFS-601 Integrated Fixture Sensor & Controller	☐ NXFM-1R2D-O-UNV NX Fixture Module, Offset, 1 Relay, 2 0-10V Dimming Channels, 120-347VAC, Blue
INTEGRATED OCCUPANCY & DAYLIGHT SENSOR	☐ DFCSJ-OEM-OCC Clear Connect (RF) and Occupancy/Daylight Sensing 2	☐ SU-5E-IoT IoT Node Micro Sensor ☐ SU-5E-CL Connected Micro Sensor ☐ SU-5E-IL Independent Micro Sensor ☐ SU-5S-H(IoT/CL/IL) Surface Mount Sensor 2 Must be Specified with CU-4E-FMH Control Unit	☐ ZL00J-TOW Intellect Intelligent Fixture Control System 2 ☐ ZL00J-DOW Intellect Intelligent Fixture Control System 2	☐ EN-CLM-PIR-DD-ZB SensiLUM™ Wireless Integrated Sensor ☐ ZBHACLM-DIM-ENC Connected Lighting Module DIM 2	☐ SNS 212 EasyAir Daylight and Occupancy sensor ☐ SNS300 SNS300 for networks 2	☐ FD-301 Fixture integrated Daylight Dimming Sensor 2 ☐ FS-205 Fixture integrated passive infrared occupancy sensor 2	☐ NXRM HubbNET™ Radio Module ☐ NXSMP2-OMNI Integrated Fixture Sensor & Controller ☐ NXSMP2-SMI NX Slide Mount Indoor Sensor Module
* WIRELESS OCCUPANCY SENSOR	☐ LRF2-OCR2B-P-WH Ceiling mount 360°, occupancy/vacancy sensor 3	N/A	N/A	☐ EN-SCPPH-1500-ZB Wireless Passive Infrared Occupancy and Photo Sensors 3	N/A	☐ LMDC-100 Dual technology PIR Ceiling Mount Occupancy Sensor 3	☐ NXSMP2-SMI NX Slide Mount Indoor Sensor Module
* WIRELESS DAYLIGHT SENSOR	☐ LRF2-DCRB-WH Ceiling-mount daylight sensor 3	N/A	N/A	☐ EN-SCPPH-1500-ZB Wireless Passive Infrared Occupancy and Photo Sensors 3	N/A	☐ LMLS-400 Single zone switching and dimming digital photosensor 3	☐ LUXSTATLS Luxstat Light Sensor for Luxstat Control Modules, 3 to 6000 FC
* WIRELESS OCCUPANCY & DAYLIGHT SENSOR	N/A	☐ SU-5E-IoT IoT Node Micro Sensor ☐ SU-5E-CL Connected Micro Sensor ☐ SU-5E-IL Independent Micro Sensor ☐ SU-5S-H (IoT/CL/IL) Surface Mount Sensor 3 Must be specified with CU-4E-FMH Control Unit	☐ ZL00J-TOW Intellect Intelligent Fixture Control System ☐ ZL00J-DOW Intellect Intelligent Fixture Control System 3 Must be specified with ZL027-NOW and ZL00JDOW Control unit	☐ EN-CLMPH-PIR-DD-ZB SensiLUM™ Wireless Integrated Sensor ☐ ZBHACLM-DIM-ENC Connected Lighting Module DIM 3 Must be specified with EN-WCM2-ZB-DR or EN-ALC-ZB-BK-DR Control Unit	☐ SNS212-CMP SNS-212 for Grouping 3	N/A	☐ NXSMDT Indoor Ceiling Mount Sensor - OMNI
ACCESSORIES	N/A	☐ TMC-SU-5E Tile Mount Carrier ☐ CBL-5E-CU4-30N 30 inch Sensor cable for CU-4 and IoT Ready ☐ CBL-5E-CU4-7F 7 Foot sensor cable for CU-4 and IoT Ready Driver	N/A	N/A	N/A	N/A	N/A

1- Luminare will be shipped with Powerpacks pre-installed, ready to be integrated to designated control systems

2- Luminare will be shipped with Sensors installed on the luminare, allowing for individual luminare control. Luminaires will be ready to be integrated with designated control systems

3- Luminare will be shipped with Sensors to be remotely installed on the ceiling. Luminaires will be ready to be integrated with designated control systems

4- Luminare will be compatible with LUTRON LRF2-OCR2B-PWH Ceiling mount 360deg occupancy/vacancy sensor & LRF2-DCRB-WH ceiling mount daylight sensor. Sensors must be ordered through Lutron

5- Luminare will be compatible with ENLIGHTED SU-5E-IoT, SU-5E-CL, SU-5E-IL, SU-5S-H, Sensors

6- Luminare will be compatible with LEVITON Intellect APP & Keypad room controller

7- Luminare will be compatible with EN-SCPPH-1500-ZB Wireless passive infrared occupancy and photo sensor

8- Luminaire will be compatible with philips field and wireless switch

9- Luminaire will be compatible with DLM Room control system LMPB-100. . Sensors must be orderd through Legrand.