

4"

BOLD-4-SHAL-TWH

4" TWH Architectural Shallow Round Downlight - Trim, Trimless & Millwork

Bold Series



APPLICATION & FEATURES

BOLD-4-SHAL-TWH Downlight is a specification-grade architectural luminaire engineered for visual comfort, flexibility, and control. With field-changeable optics, tool-less trim interchangeability, and a range of precise beam distributions, BOLD-4-SHAL-TWH delivers quiet ceilings and seamless integration into the architectural environment.

Available in three distinct housing options—flanged, trimless, and millwork—BOLD-4-SHAL-TWH adapts to a wide range of ceiling conditions while maintaining a refined visual language. The system features 98 CRI with 1x2 Step MacAdam Ellipse color consistency for exceptional optical quality, and supports multiple dimming protocols down to 0.1% for maximum control and responsiveness.

Ideal for commercial, hospitality, retail, institutional, civic, cultural, corporate, academic, healthcare, luxury residential, gallery, and museum projects, BOLD-4-SHAL-TWH supports elevated design intent without compromise.

As part of a complete family that includes wall wash and adjustable accent options, BOLD-4-SHAL-TWH offers static and dynamic color technologies 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
DISTRIBUTIONS	Very Narrow Spot (10°), Narrow Spot (15°), Spot (24°), Medium (36°) and Wide (60°)
DRIVERS	DIM10, ELDODALI.1 and BLE-CASAMBI
TRIM OPTIONS	Downlight: Flanged, Trimless, Millwork Pinhole: Flanged, Trimless, Millwork
FINISH OPTIONS	Anodized: Chrome (CL), Satin Haze (SHZ) 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
LISTINGS	  

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Tunable White: BOLD-4-SHAL-TWH-900L-18K-40K-90-10D-DIM10-MVOLT

Series	Lumens	CCT	CRI	Optics	Driver	Voltage	Emergency	Options	Optical Accessories
BOLD-4-SHAL-TWH	900L	18K-40K	90+	10D	DIM10	MVOLT	-	-	-
	1200L	27K-65K		Very Narrow Spot (10°)	ELDODALI.1		All emergency options require top access, remote emergency test switch included	RIF	SOFL
	1500L			15D	BLE-CASAMBI			RIF Filter	Solite Frosted
	2000L 1			Narrow Spot (15°)			EMG-10	REM 2	
				24D			EMG-20	Single Remote Dimming Driver	
			Spot (24°)	36D			EMG-10-SDT	BABA	
			Medium (36°)	60D			EMG-20-SDT	Made in America Compliance	
			Wide (60°)				GTD		

Any fixture can take maximum 2 Optical Accessories **1** The highest lumen will not be compatible with any optical accessories **2** 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-402-A-F-W-W**

Trim Option		Trim Construction	Trim Flange Opt.	Reflector Finishes	Flange Finishes
 B4R-402 Open Downlight	 B4R-428 Solite Lens Downlight WET LOCATION	A Anodized DC Diecast	F Flanged	W White BK Black CL 1 Chrome SHZ 1 Satin Haze RAL Custom Color (Consult Factory)	W White BK Black CL 1 Chrome SHZ 1 Satin Haze RAL Custom Color (Consult Factory)
 B4R-414 Open Pinhole	 B4R-415 Solite Lens Pinhole WET LOCATION				

1 Only available in anodized

TRIMLESS/MILLWORK REFLECTOR TYPE

Example: **B4R-402-TL-A-TL-WH**

Trim Option		Trim Construction	Trim Flange Opt.	Reflector Finishes
 B4R-402 Trimless Open Downlight	 B4R-428 Trimless Solite Lens Downlight WET LOCATION	A Anodized DC Diecast	TL Trimless MW 1 Millwork DMW 2 Diecast Millwork	WH White BK Black CL 1 Chrome SHZ 1 Satin Haze RAL Custom Color (Consult Factory)
 B4R-414 Trimless Open Pinhole	 B4R-415 Trimless Solite Lens Pinhole WET LOCATION			

1 Only available in anodized **2** Only available in diecast

DESCRIPTION

The BOLD-4-SHAL-TWH Downlight is engineered for quiet ceilings and visual comfort, delivering precise, glare-controlled illumination exactly where it's needed. Its fixed optical system ensures consistent beam quality with tight cutoff, supporting low-glare, high-performance general lighting. For applications demanding an ultra-discreet aperture, BOLD-4-SHAL-TWH offers a Pinhole trim option—minimizing visible source brightness while maintaining clean beam control. Ideal for high-end environments where visual precision and ceiling refinement are critical, BOLD-4-SHAL-TWH helps lighting designers achieve subtle yet effective illumination.

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. This modular design also supports up to two optical accessories—including spread lenses, frosted lenses, color filters, plus a honeycomb louver—making it exceptionally versatile for post-installation tuning.

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 the light source to achieve a 45-degree cutoff, 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.

DOWNLIGHT TRIM

Featuring a 45° visual cutoff angle to the source, this luminaire provides exceptional glare control and visual comfort while maintaining low-brightness apertures for a pleasant lighting experience. Available in a wide variety of colors and designs, it offers flexibility to suit diverse architectural needs. Available in Open Downlight, Lensed Downlight, and Pinhole Downlight configurations.

HOUSING

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, the housing ensures exceptional mechanical strength, thermal efficiency, and long-term durability. The matte black powder-coated finish reduces internal reflections and enhances heat management, contributing to glare-free illumination.

This 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 safeguards against overheating, even in constrained ceiling spaces.

The 90°C-rated junction box features multiple 1/2" knockouts and accommodates 4-in/4-out through-branch wiring with snap-on access covers for efficient installation.

MOUNTING

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. Once the heat sink holder is disengaged from the housing, rotate the heat sink holder 360 degrees and tilt it to a 45-degree angle to easily access the driver, allowing for quick service or replacement.

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

[DIM10](#) - 0-10V dimming on either MVOLT 120, 277 or 347V. Dimmable down to 1% of initial lumens, standard
[ELDODALI.1](#) - EldoLED SoloDrive DALI-2. Dimming down to 0.1%
[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

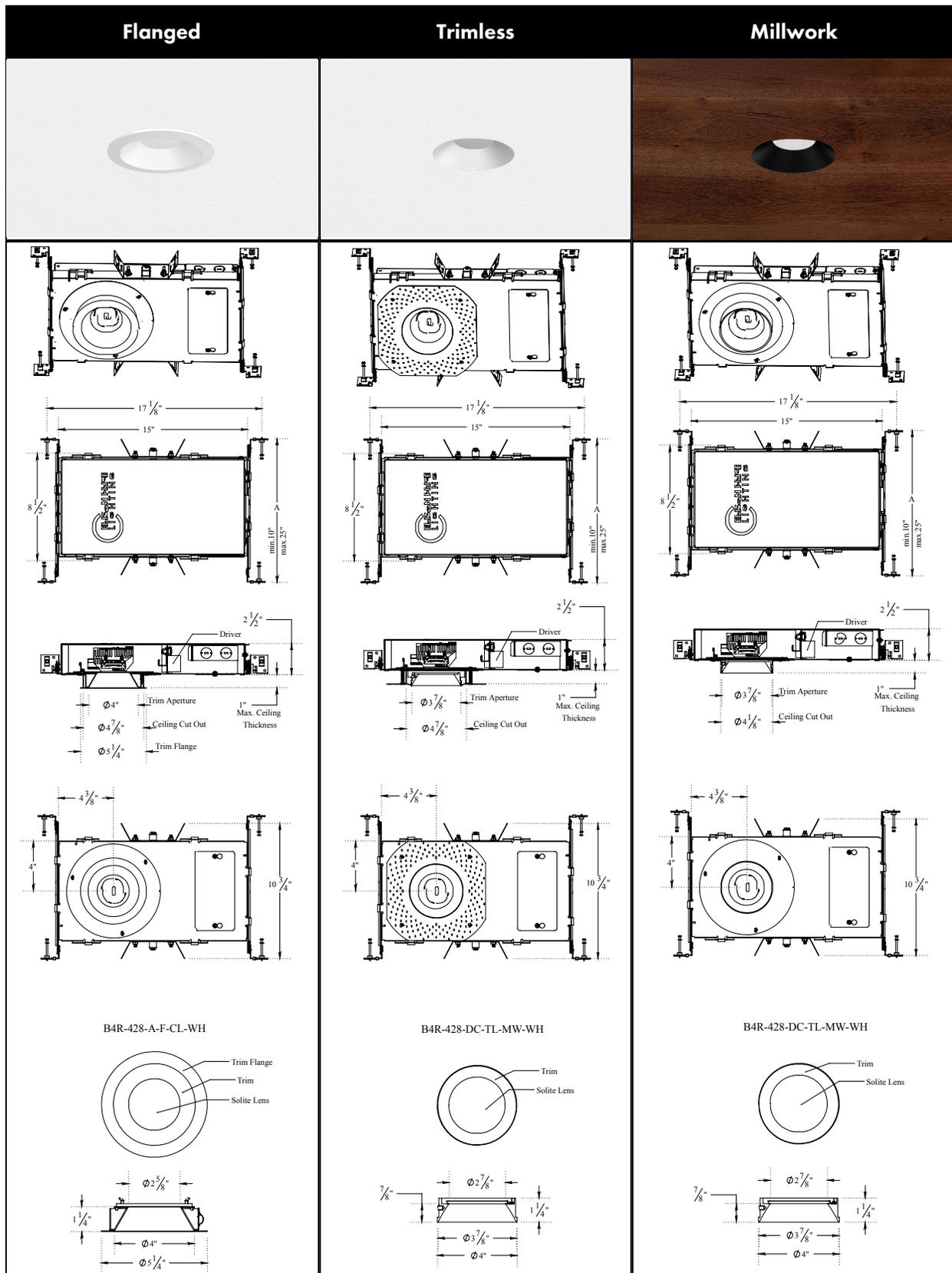
- BABAA Compliant for government procurement under FAR, DFARS, and DOT regulations.

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

- 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- Luminare will be compatible with philips field and wireless switch
- 9- Luminare will be compatible with DLM Room control system LMPB-100. Sensors must be ordered through Legrand.