FLANGED

TRIMLESS

MILLWORK

WHITE

CHROME

SATIN HAZE

BLACK

APPLICATION & FEATURES

BOLD-4-HL-IC-RGBW 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-HL-IC-RGBW delivers quiet ceilings and seamless integration into the architectural environment.

Available in three distinct housing options—flanged, trimless, and millwork—BOLD-4-HL-IC-RGBW 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-HL-IC-RGBW supports elevated design intent without compromise.

As part of a complete family that includes wall wash and adjustable accent options, BOLD-4-HL-IC-RGBW offers static and dynamic color technologies to meet the evolving demands of high-performance lighting design.

LUMENS	**Tunable White:** 900L, 1200L, 1500L and 2000L **RGB+White:** 900L and 1200L
CCT & DYNAMIC PLATFORMS	**Tunable White:** 18K-40K and 27K-65K **RGB+White:** 18K-65K
CRI	**Tunable White:** 90+ **RGB+White:** 90+
COLOR QUALITY	2 Step MacAdam Ellipse
DISTRIBUTIONS	Very Narrow Spot (10°), Narrow Spot (15°), Spot (24°), Medium (36°) and Wide (60°)
DRIVERS	**Tunable White:** DIM10, ELDODMX.1, ELDODALI.1 and BLE-CASAMBI **RGB+White:** ELDODMX.1
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	**Tunable White:** EMG-10, EMG-20, EMG-10-SDT, EMG-20-SDT and GTD **RGB+White:** PELI-S-20-REM
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-24
LISTINGS	5YRS LIMITED WARRANTY · BABAA BUY BUILD AMERICA ACT · WET LOCATION

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

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

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

RGB White: BOLD-4-HL-IC-RGBW-900L-18K-65K-90-10D-ELDODMX.1-MVOLT

Series	Lumens	CCT	CRI	Optics	Driver	Voltage	Emergency	Options	Optical Accessories
BOLD-4-HL-IC-RGBW	**900L** **1200L 1**	**18K-65K**	**90+**	**10D** Very Narrow Spot (10°) **15D** Narrow Spot (15°) **24D** Spot (24°) **36D** Medium (36°) **60D** Wide (60°)	**ELDODMX.1**	**MVOLT**	**-** All emergency options reqire top access, remote emergency test switch included **PELI-S-20-REM 2**	**-** **RIF** RIF Filter **REM 2** Single Remote Dimming Driver **BABA** Made in America Compliance	**-** **SOFL** Solite Frosted

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

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-HL-IC-RGBW 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-HL-IC-RGBW 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-HL-IC-RGBW 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. It can be positioned closer to the aperture for maximum output or recessed deeper to reduce glare and maintain quieter ceiling aesthetics. 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

Designed for higher ceilings and applications requiring increased light output, this housing supports high-lumen performance without compromising thermal stability or longevity. Constructed from 18-gauge cold-rolled steel, housing delivers mechanical strength, thermal efficiency, and long-term durability. A matte black powder-coated finish reduces internal reflections and enhances passive heat management. Housing is IC-rated and can be installed in direct contact with insulation, ensuring proper thermal performance without requiring a minimum clearance. Integrated thermal protection safeguards against overheating, even in high-ambient conditions.

The 90°C-rated junction box includes multiple 1/2" knockouts and supports 4-in/4-out through-branch wiring with snap-on access covers.

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 tunning range of 50K27K (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
🔗 **ELDODMX.1 -** EldoLED PowerDrive dimming down to 0.1%. Please see EldoLED website for wiring diagrams and a list of compatible DMX and DALI control systems.
🔗 **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)
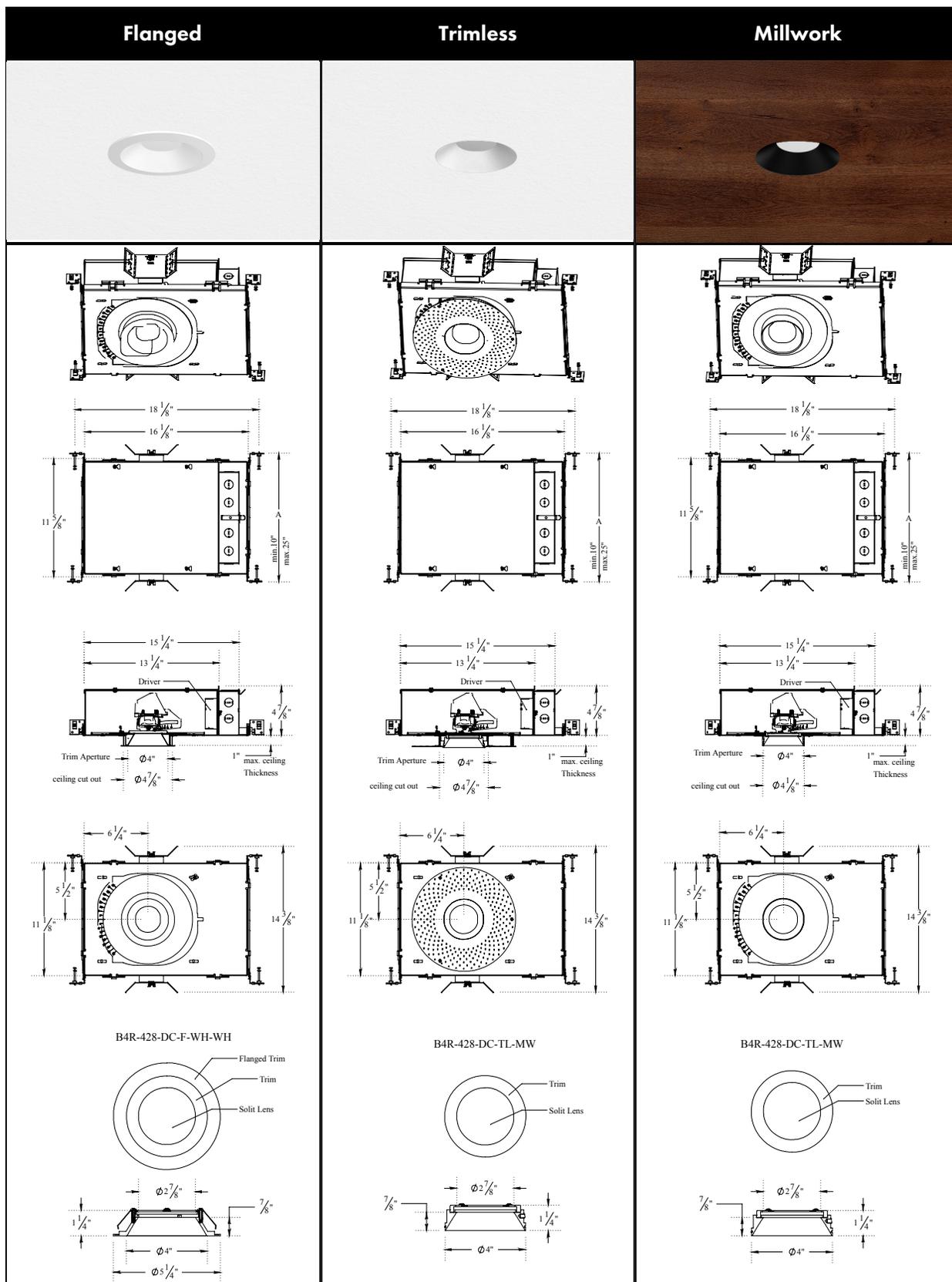
LISTINGS

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

Flanged	Trimless	Millwork

Flanged column:

18 ⅛"
16 ⅛"
11 ⅝"
min.10" / max.25" A

15 ¼"
13 ¼"
Driver
4 ⅞"
Trim Aperture — Ø 4"
ceiling cut out — Ø 4 ⅞"
1" max. ceiling Thickness

6 ¼"
5 ½"
11 ⅛"
14 ⅜"

B4R-428-DC-F-WH-WH

Flanged Trim
Trim
Solit Lens

Ø 2 ⅞"
⅞"
1 ¼"
Ø 4"
Ø 5 ¼"

Trimless column:

18 ⅛"
16 ⅛"
min.10" / max.25" A

15 ¼"
13 ¼"
Driver
4 ⅞"
Trim Aperture — Ø 4"
ceiling cut out — Ø 4 ⅞"
1" max. ceiling Thickness

6 ¼"
5 ½"
11 ⅛"
14 ⅜"

B4R-428-DC-TL-MW

Trim
Solit Lens

⅞"
Ø 2 ⅞"
1 ¼"
Ø 4"

Millwork column:

18 ⅛"
16 ⅛"
11 ⅝"
min.10" / max.25" A

15 ¼"
13 ¼"
Driver
4 ⅞"
Trim Aperture — Ø 4"
ceiling cut out — Ø 4 ⅞"
1" max. ceiling Thickness

6 ¼"
5 ½"
11 ⅛"
14 ⅜"

B4R-428-DC-TL-MW

Trim
Solit Lens

⅞"
Ø 2 ⅞"
1 ¼"
Ø 4"

BRAND	LUTRON	enlighted	LEVITON	ENCELIUM	PHILIPS	legrand	NX LIGHTING CONTROLS
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 Indipendent Micro Sensor ☐ SU-5S-H(IoT/CL/IL) Serface Mount Sensor **2** Must be Specified with CU-4E-FMH Control Unit	☐ ZL00J -T0W Intellect Intelligent Fixture Control System **2** ☐ ZL00J-D0W 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 HubbNETTM Radio Module ☐ NXSMP2-OMNI Integrated Fixture Sensor & Controller ☐ NXSMP2-SMI NX Slide Mount Indoor Sensor Module
*WIRELESS OCCUPANCY SENSOR	☐ LRF2-OCR2B-P-WH Ceiling mount360°, 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 Indipendent Micro Sensor ☐ SU-5S-H (IoT/CL/IL) Serface Mount Sensor **3** Must be specified with CU-4E-FMH Control Unit	☐ ZL00J -T0W Intellect Intelligent Fixture Control System ☐ ZL00J-D0W Intellect Intelligent Fixture Control System **3** Must be specified with ZL027-NOW and ZL00JD0W Control unit	☐ EN-CLMPIR-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 Iinch 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- Luminaire will be shipped with Powerpacks pr e-installed, ready to be integrated to designated contol systems

2- Luminaire will be shipped with Sensorsi ns talled on the luminaire, allowing for individual luminaire control. Luminaires will be ready to be integrated with designated control systems

3- Luminair e will be shipped with Sensors to be remotely installed on the ceiling. Luminair es will be ready to be integrated with designated cont rol systems

4- Luminaire will be compatible with LUTRON LRF2-0CR2B-PWH Ceiling mount 360deg occupancy/vacancy sensor & LRF2-DCRB-WH ceiling mount daylight sensor Sensors must be orderd through Lutron

5- Luminaire will be compatible with ENLIGHTED SU-5E-IoT, SU-5E-CL, SU- 5E-IL, SU-5SH, Sensors

6- Luminaire will be compatible with LEVITON I ntellect APP & Keypad room controller

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

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

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