FLANGED

TRIMLESS

MILLWORK

WHITE

CHROME

SATIN HAZE

BLACK

APPLICATION & FEATURES

BOLD-3S 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-3S delivers quiet ceilings and seamless integration into the architectural environment.

Available in three distinct housing options—flanged, trimless, and millwork—BOLD-3S 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-3S supports elevated design intent without compromise.

As part of a complete family that includes wall wash and adjustable accent options, BOLD-3S offers static and dynamic color technologies to meet the evolving demands of high-performance lighting design.

LUMENS	**High Performance:** 900L, 1200L, 1500L, 2000L and 2500L **Warm Dimming:** 900L, 1200L, 1500L and 2000L **Xicato Artist:** 900L, 1200L and 1500L
CCT & DYNAMIC PLATFORMS	**High Performance:** 27K, 30K, 35K, 40K and 50K **Warm Dimming:** 18K-30K, 27K-30K and 22K-30K **Xicato Artist:** 27K, 30K, 30K-VIB, 35K and 40K
CRI	**High Performance:** 90+ and 98+ **Warm Dimming:** 90+ **Xicato Artist:** 90+ and 98+
COLOR QUALITY	2 Step MacAdam Ellipse
DISTRIBUTIONS	Very Narrow Spot (10°), Narrow Spot (15°), Spot (24°), Medium (36°) and Wide (60°)
DRIVER	**High Performance:** DIM10, LUTH, LUTFTB, ELDO10.1-LIN, ELDODMX.1, ELDODALI.1, DIMTR, BLE-CASAMBI, POE, DIM10-0-OFF, ELDO10-LOG, XSR and DIM10-AUX **Warm Dimming:** DIM10, LUTH, LUTFTB, ELDO10.1-LIN, ELDODMX.1, ELDODALI.1, DIMTR, BLE-CASAMBI, POE, DIM10-0-OFF, ELDO10-LOG, XSR and DIM10-AUX **Xicato Artist:** DIM10, LUTH, LUTFTB, ELDO10.1-LIN, ELDODMX.1, ELDODALI.1, DIMTR, BLE-CASAMBI, POE, DIM10-0-OFF, ELDO10-LOG, XSR and DIM10-AUX
TRIM OPTIONS	**Downlight:** Flanged, Trimless, Millwork **Pinhole:** Flanged, Trimless, Millwork
FINISH OPTIONS	**Anodized:** White (WH), Black (BK), Chrome (CL), Satin Haze (SHZ), Silver (SI), Bronze (BZ), Custom Color (RAL) **Diecast**: White (WH), Black (BK), Silver (SI), Bronze (BZ), 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-21

High Performance: **BOLD-3S-900L-27K-90-10D-DIM10-120V**

Series	Flange Options	Lumens	CCT	CRI	Optics	Driver	Voltage	Emergency	Options	Optical Accessories
BOLD-3S	**-** Flanged **TL** Trimless **MW** Millwork	**900L** **1200L** **1500L** **2000L** **2500L 1**	**27K** **30K** **35K** **40K** **50K**	**90+** **98+ 2**	**10D** Very Narrow Spot (10°) **15D** Narrow Spot (15°) **24D** Spot (24°) **36D** Medium (36°) **60D** Wide (60°)	**DIM10** **LUTH** **LUTFTB** **ELDO10.1-LIN** **ELDODMX.1** **ELDODALI.1** **DIMTR 3** **BLE-CASAMBI** **POE** **DIM10-0-OFF** **ELDO10-LOG** **XSR** **DIM10-AUX**	**120V** **MVOLT** **347V 4**	**-** 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 5** Single Remote Dimming Driver **BABA** Made in America Compliance **Controls** See last page	**-** **SOFL** Solite Frosted **SFL** Soft Focus Lens **SPD** Spread Linear Lens **UVL** UV Lens **HCL** Honey Comb Louver **PRS** Prismatic Lens

Any fixture can take maximum 2 Optical Accessories   **1** The highes lumen will not be compatible with any optical accessories   **2** 98+ CRI is available only on 27K, 30K and 40K   **3** DIMTR is only available with 120V   **4** 347V is only available with DIM10   **5** Remote mount Maximum distance from light fixture to remote power supply is 100' using 14 gauge wire, 50' using 16 gauge wire

Warm Dimming: **BOLD-3S-WDM-900L-18K-30K-90-15D-DIM10-120V**

Series	Flange Options	Lumens	CCT	CRI	Optics	Driver	Voltage	Emergency	Options	Optical Accessories
BOLD-3S-WDM	**-** Flanged **TL** Trimless **MW** Millwork	**900L** **1200L** **1500L** **2000L 1**	**18K-30K** **27K-30K** **22K-30K**	**90+**	**15D** Narrow Spot (15°) **24D** Spot (24°) **36D** Medium (36°) **60D** Wide (60°)	**DIM10** **LUTH** **LUTFTB** **ELDO10.1-LIN** **ELDODMX.1** **ELDODALI.1** **DIMTR 2** **BLE-CASAMBI** **POE** **DIM10-0-OFF** **ELDO10-LOG** **XSR** **DIM10-AUX**	**120V** **MVOLT** **347V 3**	**-** 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 4** Single Remote Dimming Driver **BABA** Made in America Compliance	**-** **SOFL** Solite Frosted **SFL** Soft Focus Lens **SPD** Spread Linear Lens **UVL** UV Lens **HCL** Honey Comb Louver **PRS** Prismatic Lens

Any fixture can take maximum 2 Optical Accessories   **1** The highes lumen will not be compatible with any optical accessories   **2** DIMTR is only available with 120V   **3** 347V is only available with DIM10   **4** Remote mount Maximum distance from light fixture to remote power supply is 100' using 14 gauge wire, 50' using 16 gauge wire

Xicato Artist: **BOLD-3S-XIA-900L-27K-90-10D-DIM10-120V**

Series	Flange Options	Lumens	CCT	CRI	Optics	Driver	Voltage	Emergency	Options	Optical Accessories
BOLD-3S-XIA	**-** Flanged	**900L**	**27K**	**90+**	**10D** Very Narrow Spot (10°)	**DIM10**	**120V**	**-** All emergency options reqire top access, remote emergency test switch included	**-**	**-**
	TL Trimless	**1200L**	**30K**	**98+ 2**	**15D** Narrow Spot (15°)	**LUTH**	**MVOLT**		**RIF** RIF Filter	**SOFL** Solite Frosted
	MW Millwork	**1500L 1**	**30K-VIB**		**24D** Spot (24°)	**LUTFTB**	**347V 4**	**EMG-10**	**REM 5** Single Remote Dimming Driver	**SFL** Soft Focus Lens
			35K		**36D** Medium (36°)	**ELDO10.1-LIN**		**EMG-20**		**SPD** Spread Linear Lens
			40K		**60D** Wide (60°)	**ELDODMX.1**		**EMG-10-SDT**	**BABA** Made in America Compliance	**UVL** UV Lens
						ELDODALI.1		**EMG-20-SDT**		**HCL** Honey Comb Louver
						DIMTR 3		**GTD**		**PRS** Prismatic Lens
						BLE-CASAMBI				
						POE				
						DIM10-0-OFF				
						ELDO10-LOG				
						XSR				
						DIM10-AUX				

Any fixture can take maximum 2 Optical Accessories   **1** The highes lumen will not be compatible with any optical accessories   **2** 95+ CRI is not available on 50K   **3** DIMTR is only available with 120V   **4** 347V is only available with DIM10   **5** Remote mount Maximum distance from light fixture to remote power supply is 100' using 14 gauge wire, 50' using 16 gauge wire
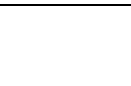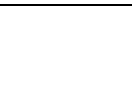
FLANGED REFLECTOR TYPE

Example: **B3S-302-A-F-WH-WH**

Trim Options	Trim Construction	Trim Flange Opt.	Reflector Finishes	Flange Finishes
B3S-302 Open Downlight	**A** Anodized	**F** Flanged	**WH** White	**WH** White
B3S-328 Solite Lens Downlight 💧 **WET LOCATION**	**DC** Diecast		**BK** Black	**BK** Black
B3S-314 Open Pinhole			**SI** Silver	**SI** Silver
B3S-315 Solite Lens Pinhole 💧 **WET LOCATION**			**BZ** Bronze	**BZ** Bronze
			CL 1 Chrome	**CL 1** Chrome
			SHZ 1 Satin Haze	**SHZ 1** Satin Haze
			RAL Custom Color (Consult Factory)	**RAL** Custom Color (Consult Factory)

1 Only available in anodized

TRIMLESS/MILLWORK REFLECTOR TYPE

Example: **B3S-302-A-TL-WH-WH**

Trim Options	Trim Construction	Trim Flange Opt.	Reflector Finishes
B3S-302 Open Downlight	**A** Anodized	**TL** Trimless	**WH** White
B3S-328 Solite Lens Downlight 💧 **WET LOCATION**	**DC** Diecast	**MW** Millwork	**BK** Black
B3S-314 Open Pinhole			**SI** Silver
B3S-315 Solite Lens Pinhole 💧 **WET LOCATION**			**BZ** Bronze
			CL 1 Chrome
			SHZ 1 Satin Haze
			RAL Custom Color (Consult Factory)

1 Only available in anodized

DESCRIPTION

The BOLD-3S 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-3S 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-3S 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

Constructed from 18-gauge cold-rolled steel, housing delivers mechanical strength, thermal stability, and long-term durability. A matte black powder-coated finish minimizes internal reflections and supports passive heat management.

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 prevents overheating in high-ambient or enclosed plenum 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.

DIM TO WARM OPTION

Dims to Warm simulates traditional incandescent halogen lighting through dimming. When the luminaire dims to warm from 100% to .1%, it makes a smooth transition across the black body radiator while maintaining a constant CRI of 90+. Available in 30K-18K, 30K-22K or 27K-18K range.

XICATO ARTIST SERIES LED MODULE (XIA)

Powered by Xicato Artist Series®, which are tested to IES TM-30-15, with a color fidelity score (Rf) of 96 and a color gamut score (Rg) of 102, and color shift less than du'v' of 0.003. Featuring cold phosphor technology, improving thermal management enhancing color consistency and delaying lumen depreciation.

NATURAL SPECTRUM (NSL)

Natural Spectrum LED option id designed for Human Centric lighting apllication. Natural Spectrum LEDs diminish blue light peak, similar spectral curve to sunlight, accurate rendering of colors and reduced scattered reflection and glare.

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 Mood Master (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 6500K to 1650K. 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

🔗 **LUTH -** Lutron LDE1 Hi-Lume Eco System with Soft Fade to Black 1% dimming

🔗 **LUTFTB -** Lutron PEQ0 Hi-Lume Premier Eco System LED Driver with soft-on fade to black 0.1% dimming

🔗 **ELDO10.1-LIN -** ELDO10-Linear with linear dimming curve.

🔗 **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%

🔗 **DIMTR -** Triac & Electronic low voltage forwardp hase dimming. Available in 120V only

🔗 **BLE–CASAMBI -** Luminaires may be controlled, grouped, scheduled or placed in scenes , and or zones Via Cassambi Bluetooth 4.0 App.

🔗 **POE -** Power-over-Ethernet Depending on the PoE manufacturer selected

🔗 **DIM10-0-OFF -** Program DIM10-to OFF withlinear dimming curve 0.1%

🔗 **ELDO10-LOG -** ELDO10-LOG with logarithmic dimming curve.

🔗 **XSR -** Xitanium SR Dimming

🔗 **DIM10-AUX -** 0-10V with Auxiliry power

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.
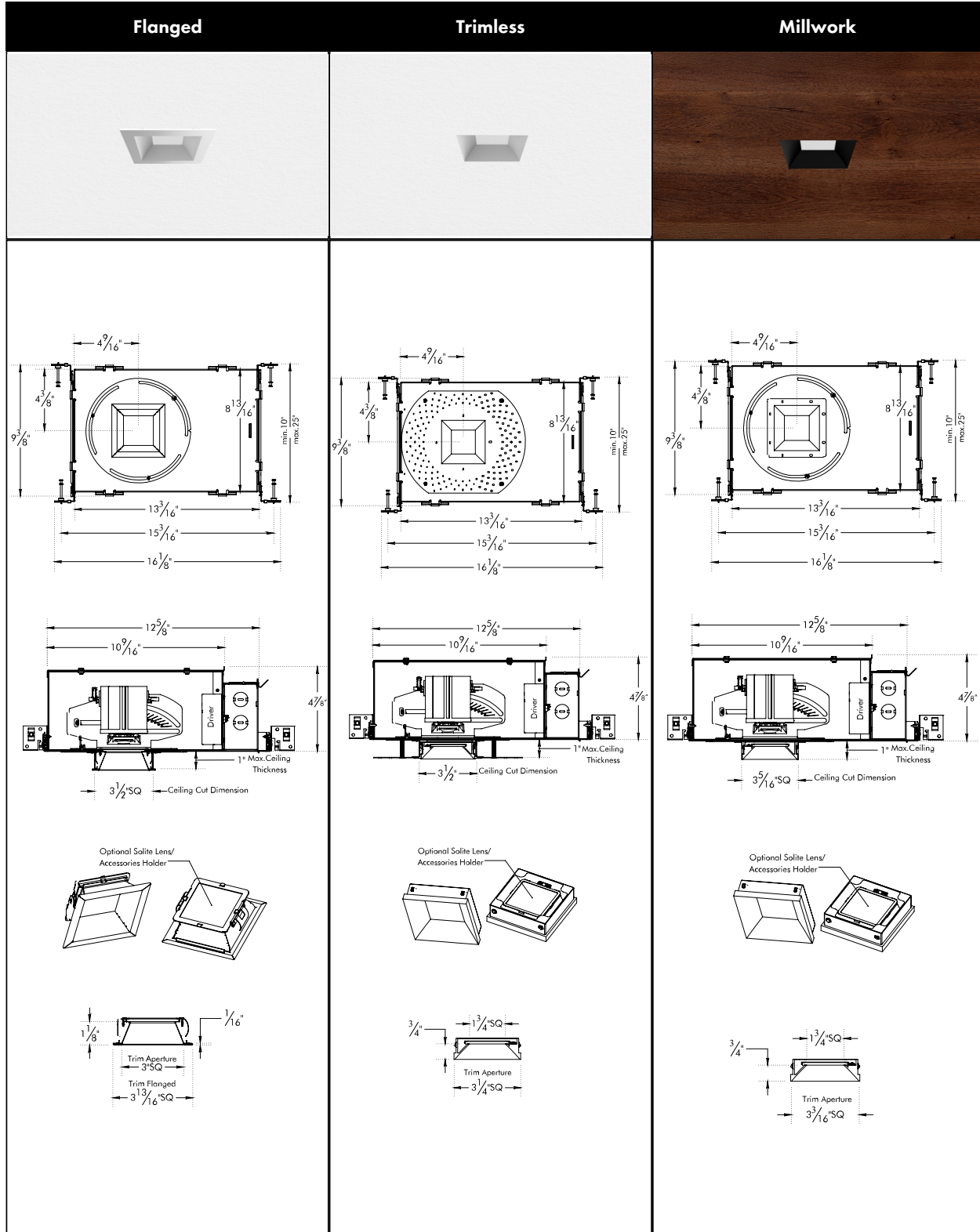
Flanged	Trimless	Millwork

BOLD-3S-2000L-40K-90-15D-DIM10-MVOLT-B3S-302-DC-F-WH-WH

TEST NO: **EPL02242531**

INPUT WATTS: **22.8**   LUMENS: **2079**   EFFICACY: **91**   BEAM ANGLE: **21**   SPACING CRITERIA: **0.36**

CANDELA DISTRIBUTION
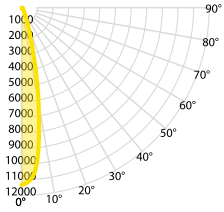
CANDELA TABLE

	0°	90°
0°	11343	11314
10°	6239	6433
20°	1194	1217
30°	323	329
40°	113	118
50°	34	39
60°	6	8
70°	2	2
80°	1	1
90°	0	0

LUMINANCE (cd/sq.m)

	0.00°	90.00°
0.00°	1356588	1353095
45.00°	10284	11941
55.00°	3420	4139
65.00°	640	668
75.00°	467	527
85.00°	316	371

LUMENS PER ZONE

ZONE	LUMENS
0° - 10°	826
10° - 20°	749
20° - 30°	293
30° - 40°	122
40° - 50°	59
50° - 60°	23
60° - 70°	5
70° - 80°	1
80° - 90°	0

ZONAL LUMEN SUMMARY

ZONE	UMENS	% LUMINAIRE
0° - 20°	1574	76%
0° - 30°	1868	90%
0° - 40°	1989	96%
0° - 60°	2071	100%
0° - 80°	2076	100%
0° - 90°	2077	100%

CONE OF LIGHT

MOUNTING HEIGHT	FC AT BEAM CENTER	BEAM DIA. 0° -180°	BEAM DIA. 90° -270°
6.0 ft	315.1 fc	2.2 ft	2.2 ft
8.0 ft	177.2 fc	2.9 ft	2.9 ft
10.0 ft	113.4 fc	3.6 ft	3.7 ft
12.0 ft	78.8 fc	4.4 ft	4.4 ft
14.0 ft	57.9 fc	5.1 ft	5.1 ft
16.0 ft	44.3 fc	5.8 ft	5.9 ft
18.0 ft	35.0 fc	6.6 ft	6.6 ft
20.0 ft	28.4 fc	7.3 ft	7.3 ft

INDOOR COEFFICIENTS OF UTILIZATION

ρf									20%									0%
ρc		80%				70%				50%			30%			10%		0%
ρw	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%
0	120	120	120	120	118	118	118	118	112	112	112	107	107	107	103	103	103	101
1	116	114	112	110	114	112	110	108	108	106	105	104	103	102	101	100	99	97
2	112	108	105	103	110	107	104	102	104	101	99	101	99	97	98	96	95	94
3	108	104	100	97	107	102	99	96	100	97	95	97	95	93	95	93	92	90
4	105	99	95	92	103	98	94	92	96	93	91	94	92	90	93	90	89	87
5	102	96	91	88	100	95	91	88	93	90	87	92	89	86	90	88	86	84
6	99	92	88	85	97	92	87	85	90	87	84	89	86	83	88	85	83	82
7	96	89	85	82	95	89	85	82	87	84	81	86	83	81	85	83	80	79
8	93	86	82	79	92	86	82	79	85	81	79	84	81	79	83	80	78	77
9	91	84	80	77	90	84	80	77	83	79	77	82	79	76	81	78	76	75
10	88	82	78	75	88	81	77	75	81	77	75	80	77	74	79	76	74	73

BOLD-3S-2000L-40K-90-24D-DIM10-MVOLT-B3S-302-DC-F-WH-WH

TEST NO: **EPL02242531**

INPUT WATTS: **23.1**   LUMENS: **2203**   EFFICACY: **95**   BEAM ANGLE: **26**   SPACING CRITERIA: **0.43**

CANDELA DISTRIBUTION
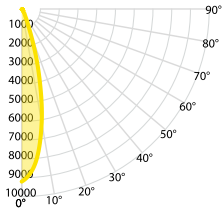
CANDELA TABLE

	0°	90°
0°	9201	9385
10°	6143	6641
20°	1373	1645
30°	304	330
40°	118	120
50°	40	44
60°	7	9
70°	2	2
80°	1	1
90°	0	0

LUMINANCE (cd/sq.m)

	0.00°	90.00°
0.00°	1100409	1122389
45.00°	11906	13198
55.00°	3989	4838
65.00°	657	798
75.00°	471	679
85.00°	274	563

LUMENS PER ZONE

ZONE	LUMENS
0° - 10°	749
10° - 20°	927
20° - 30°	310
30° - 40°	120
40° - 50°	63
50° - 60°	25
60° - 70°	5
70° - 80°	1
80° - 90°	0

ZONAL LUMEN SUMMARY

ZONE	UMENS	% LUMINAIRE
0° - 20°	1676	76%
0° - 30°	1987	90%
0° - 40°	2107	96%
0° - 60°	2195	100%
0° - 80°	2201	100%
0° - 90°	2201	100%

CONE OF LIGHT

MOUNTING HEIGHT	FC AT BEAM CENTER	BEAM DIA. 0° -180°	BEAM DIA. 90° -270°
6.0 ft	255.6 fc	2.7 ft	2.8 ft
8.0 ft	143.8 fc	3.6 ft	3.7 ft
10.0 ft	92.0 fc	4.5 ft	4.6 ft
12.0 ft	63.9 fc	5.5 ft	5.5 ft
14.0 ft	46.9 fc	6.4 ft	6.4 ft
16.0 ft	35.9 fc	7.3 ft	7.3 ft
18.0 ft	28.4 fc	8.2 ft	8.3 ft
20.0 ft	23.0 fc	9.1 ft	9.2 ft

INDOOR COEFFICIENTS OF UTILIZATION

ρf									20%									0%
ρc		80%				70%				50%			30%			10%		0%
ρw	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%
0	120	120	120	120	117	117	117	117	112	112	112	107	107	107	103	103	103	101
1	116	113	111	110	113	111	109	108	107	106	104	103	102	101	100	99	98	97
2	111	108	104	102	109	106	103	101	103	101	99	100	98	96	97	96	94	93
3	108	103	99	96	106	101	98	95	99	96	94	97	94	92	94	92	91	89
4	104	98	94	91	102	97	93	90	95	92	89	93	91	88	92	89	87	86
5	101	94	90	87	99	94	90	86	92	88	86	90	87	85	89	86	84	83
6	98	91	87	83	96	90	86	83	89	85	83	88	84	82	86	84	81	80
7	95	88	83	80	94	87	83	80	86	82	80	85	82	79	84	81	79	78
8	92	85	81	78	91	84	80	77	83	80	77	83	79	77	82	79	76	75
9	89	82	78	75	88	82	78	75	81	77	75	80	77	74	80	76	74	73
10	87	80	76	73	86	79	75	73	79	75	73	78	75	72	77	74	72	71

BOLD-3S-2000L-40K-90-36D-DIM10-MVOLT-B3S-302-DC-F-WH-WH

TEST NO: **EPL02242531**

INPUT WATTS: **21.7**   LUMENS: **2237**   EFFICACY: **103**   BEAM ANGLE: **39**   SPACING CRITERIA: **0.62**

CANDELA DISTRIBUTION
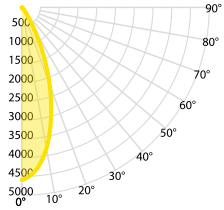
CANDELA TABLE

	0°	90°
0°	4594	4583
10°	3806	4035
20°	2175	2480
30°	668	855
40°	155	193
50°	43	59
60°	9	15
70°	3	3
80°	1	1
90°	0	0

LUMINANCE (cd/sq.m)

	0.00°	90.00°
0.00°	549434	548113
45.00°	13600	18272
55.00°	4673	6397
65.00°	917	1126
75.00°	587	859
85.00°	357	686

LUMENS PER ZONE

ZONE	LUMENS
0° - 10°	419
10° - 20°	829
20° - 30°	633
30° - 40°	232
40° - 50°	83
50° - 60°	30
60° - 70°	7
70° - 80°	2
80° - 90°	1

ZONAL LUMEN SUMMARY

ZONE	UMENS	% LUMINAIRE
0° - 20°	1248	56%
0° - 30°	1881	84%
0° - 40°	2113	94%
0° - 60°	2226	100%
0° - 80°	2235	100%
0° - 90°	2236	100%

CONE OF LIGHT

MOUNTING HEIGHT	FC AT BEAM CENTER	BEAM DIA. 0° -180°	BEAM DIA. 90° -270°
6.0 ft	127.6 fc	4.3 ft	4.3 ft
8.0 ft	71.8 fc	5.7 ft	5.7 ft
10.0 ft	45.9 fc	7.1 ft	7.1 ft
12.0 ft	31.9 fc	8.5 ft	8.6 ft
14.0 ft	23.4 fc	9.9 ft	10.0 ft
16.0 ft	17.9 fc	11.4 ft	11.4 ft
18.0 ft	14.2 fc	12.8 ft	12.8 ft
20.0 ft	11.5 fc	14.2 ft	14.3 ft

INDOOR COEFFICIENTS OF UTILIZATION

ρf									20%									0%
ρc		80%				70%				50%			30%			10%		0%
ρw	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%
0	119	119	119	119	117	117	117	117	111	111	111	107	107	107	102	102	102	100
1	115	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95
2	110	105	102	99	107	104	100	98	100	98	95	97	95	93	95	93	91	90
3	105	99	95	91	103	98	94	91	95	92	89	93	90	88	91	88	86	85
4	101	94	89	85	99	93	88	85	91	87	84	89	85	83	87	84	82	80
5	96	89	84	80	95	88	83	80	86	82	79	85	81	78	83	80	78	76
6	92	85	79	76	91	84	79	75	82	78	75	81	77	74	80	76	74	73
7	89	81	75	72	87	80	75	71	79	74	71	78	74	71	76	73	70	69
8	85	77	72	68	84	76	71	68	75	71	68	74	70	67	73	70	67	66
9	82	73	68	65	81	73	68	65	72	68	65	71	67	64	71	67	64	63
10	79	70	65	62	78	70	65	62	69	65	62	69	64	62	68	64	61	60

BOLD-3S-2000L-40K-90-60D-DIM10-MVOLT-B3S-302-DC-F-WH-WH

TEST NO: **EPL02242531**

INPUT WATTS: **21.7**   LUMENS: **2138**   EFFICACY: **99**   BEAM ANGLE: **54**   SPACING CRITERIA: **0.80**

CANDELA DISTRIBUTION
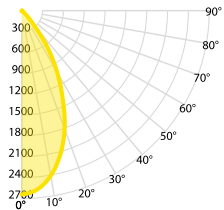
CANDELA TABLE

	0°	90°
0°	2643	2641
10°	2409	2502
20°	1808	1978
30°	1018	1199
40°	295	468
50°	47	75
60°	10	14
70°	3	3
80°	1	1
90°	0	0

LUMINANCE (cd/sq.m)

	0.00°	90.00°
0.00°	316075	315917
45.00°	20246	31624
55.00°	4654	6258
65.00°	872	1347
75.00°	767	809
85.00°	521	618

LUMENS PER ZONE

ZONE	LUMENS
0° - 10°	255
10° - 20°	598
20° - 30°	659
30° - 40°	438
40° - 50°	144
50° - 60°	32
60° - 70°	7
70° - 80°	2
80° - 90°	1

ZONAL LUMEN SUMMARY

ZONE	UMENS	% LUMINAIRE
0° - 20°	853	40%
0° - 30°	1512	71%
0° - 40°	1951	91%
0° - 60°	2127	99%
0° - 80°	2136	100%
0° - 90°	2136	100%

CONE OF LIGHT

MOUNTING HEIGHT	FC AT BEAM CENTER	BEAM DIA. 0° -180°	BEAM DIA. 90° -270°
6.0 ft	73.4 fc	6.1 ft	6.1 ft
8.0 ft	41.3 fc	8.1 ft	8.1 ft
10.0 ft	26.4 fc	10.1 ft	10.1 ft
12.0 ft	18.4 fc	12.1 ft	12.1 ft
14.0 ft	13.5 fc	14.1 ft	14.1 ft
16.0 ft	10.3 fc	16.1 ft	16.2 ft
18.0 ft	8.2 fc	18.2 ft	18.2 ft
20.0 ft	6.6 fc	20.2 ft	20.2 ft

INDOOR COEFFICIENTS OF UTILIZATION

ρf									20%									0%
ρc		80%				70%				50%			30%			10%		0%
ρw	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%
0	119	119	119	119	116	116	116	116	111	111	111	107	107	107	102	102	102	100
1	114	111	109	106	111	109	107	105	105	103	101	101	100	98	98	96	95	94
2	108	103	99	96	106	102	98	95	98	95	93	95	93	91	93	91	89	87
3	103	96	91	87	101	95	90	87	92	88	85	90	87	84	88	85	83	81
4	98	90	85	80	96	89	84	80	87	82	79	85	81	78	83	80	77	76
5	93	84	79	74	91	83	78	74	82	77	73	80	76	73	78	75	72	70
6	88	79	73	69	87	78	73	69	77	72	68	75	71	68	74	70	67	66
7	84	75	69	64	82	74	68	64	73	68	64	71	67	63	70	66	63	62
8	80	70	64	60	79	70	64	60	69	63	60	68	63	60	67	62	59	58
9	76	66	61	57	75	66	60	56	65	60	56	64	59	56	63	59	56	55
10	73	63	57	53	72	62	57	53	62	57	53	61	56	53	60	56	53	51

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** 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 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 1inch 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.