3"

BOLD-3S-SHAL

3" Architectural Shallow Plenum Square Downlight - Trim, Trimless & Millwork

Bold Series

FLANGED

TRIMLESS

MILLWORK

WHITE

CHROME

SATIN HAZE

BLACK

APPLICATION & FEATURES

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

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

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

LUMENS	**High Performance:** 900L, 1200L, 1500L and 2000L **Warm Dimming:** 900L, 1200L and 1500L **Xicato Artist:** 900L and 1200L
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, 40K and 50K
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, DIMTR, LUTH, ELDO10-LOG, ELDO10.1-LIN, ELDODALI.1 and BLE-CASAMBI **Warm Dimming:** DIM10, DIMTR, LUTH, ELDO10-LOG, ELDO10.1-LIN, ELDODALI.1 and BLE-CASAMBI **Xicato Artist:** DIM10, DIMTR, LUTH, ELDO10-LOG, ELDO10.1-LIN, ELDODALI.1 and BLE-CASAMBI
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-27

EDISON PRICE LIGHTING

3"

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

Series	Flange Options	Lumens	CCT	CRI	Optics	Driver	Voltage	Emergency	Options	Optical Accessories
BOLD-3S-SHAL	**-** 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°)	**DIMTR 3**	**MVOLT**		**RIF** RIF Filter	**SOFL** Solite Frosted
	MW Millwork	**1500L**	**35K**		**24D** Spot (24°)	**LUTH**	**347V 4**	**EMG-10**	**REM 5** Single Remote Dimming Driver	**SFL** Soft Focus Lens
		2000L 1	**40K**		**36D** Medium (36°)	**ELDO10-LOG**		**EMG-20**	**BABA** Made in America Compliance	**SPD** Spread Linear Lens
			50K		**60D** Wide (60°)	**ELDO10.1-LIN**		**EMG-10-SDT**		**UVL** UV Lens
						ELDODALI.1		**EMG-20-SDT**	**Controls** See last page	**HCL** Honey Comb Louver
						BLE-CASAMBI		**GTD**		**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

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

Series	Flange Options	Lumens	CCT	CRI	Optics	Driver	Voltage	Emergency	Options	Optical Accessories
BOLD-3S-SHAL-WDM	**-** Flanged	**900L**	**18K-30K**	**90+**	**15D** Narrow Spot (15°)	**DIM10**	**120V**	**-** All emergency options reqire top access, remote emergency test switch included	**-**	**-**
	TL Trimless	**1200L**	**27K-30K**		**24D** Spot (24°)	**DIMTR 2**	**MVOLT**		**RIF** RIF Filter	**SOFL** Solite Frosted
	MW Millwork	**1500L 1**	**22K-30K**		**36D** Medium (36°)	**LUTH**	**347V 3**	**EMG-10**	**REM 4** Single Remote Dimming Driver	**SFL** Soft Focus Lens
					60D Wide (60°)	**ELDO10-LOG**		**EMG-20**	**BABA** Made in America Compliance	**SPD** Spread Linear Lens
						ELDO10.1-LIN		**EMG-10-SDT**		**UVL** UV Lens
						ELDODALI.1		**EMG-20-SDT**		**HCL** Honey Comb Louver
						BLE-CASAMBI		**GTD**		**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

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3" Architectural Shallow Plenum Square Downlight - Trim, Trimless & Millwork

Bold Series

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

Series	Flange Options	Lumens	CCT	CRI	Optics	Driver	Voltage	Emergency	Options	Optical Accessories
BOLD-3S-SHAL-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 1**	**30K**	**98+ 2**	**15D** Narrow Spot (15°)	**DIMTR 3**	**MVOLT**	**EMG-10**	**RIF** RIF Filter	**SOFL** Solite Frosted
	MW Millwork		**30K-VIB**		**24D** Spot (24°)	**LUTH**	**347V 4**	**EMG-20**	**REM 5** Single Remote Dimming Driver	**SFL** Soft Focus Lens
			35K		**36D** Medium (36°)	**ELDO10-LOG**		**EMG-10-SDT**	**BABA** Made in America Compliance	**SPD** Spread Linear Lens
			40K		**60D** Wide (60°)	**ELDO10.1-LIN**		**EMG-20-SDT**		**UVL** UV Lens
			50K			**ELDODALI.1**		**GTD**		**HCL** Honey Comb Louver
						BLE-CASAMBI				**PRS** Prismatic Lens

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-SHAL 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-SHAL 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-SHAL 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.

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

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

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

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

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

🔗 **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

- 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

17 1/8"	17 1/8"	17 1/8"
15"	15"	15"
8 1/2"	8 1/2"	8 1/2"
min.10: max.25" A	min.10: max.25" A	min.10: max.25" A
Driver 2 1/2"	Driver 2 1/2"	Driver 2 1/2"
3 1/8"SQ Trim Aperture	1 1/4"SQ Trim Aperture	3 1/4"SQ Trim Aperture
3 1/2"SQ Ceiling cut out	3 1/2"SQ Ceiling cut out	3 3/8"SQ Ceiling cut out
1" Max.Ceiling Thickness	1" Max.Ceiling Thickness	1" Max.Ceiling Thickness
4 1/4"SQ Trim Flange	Ø 8 1/2" mud Ring OD	
4 3/8"	4 3/8"	4 3/8"
4"	4"	4"
10 3/4"	10 3/4"	10 3/4"

B3S-328-DC-F-W-WH	B3S-328-DC-TL-MW-WH	B3S-328-DC-TL-MW-WH
Solite Lens	Solite Lens	Solite Lens
Trim	Trim	Trim
Trim Flange		
1 3/4"SQ	1 3/4"SQ	1 3/4"SQ
3/4"	3/4"	3/4"
3 1/8"SQ	3 1/4"SQ	3 1/4"SQ
4 1/4"SQ		
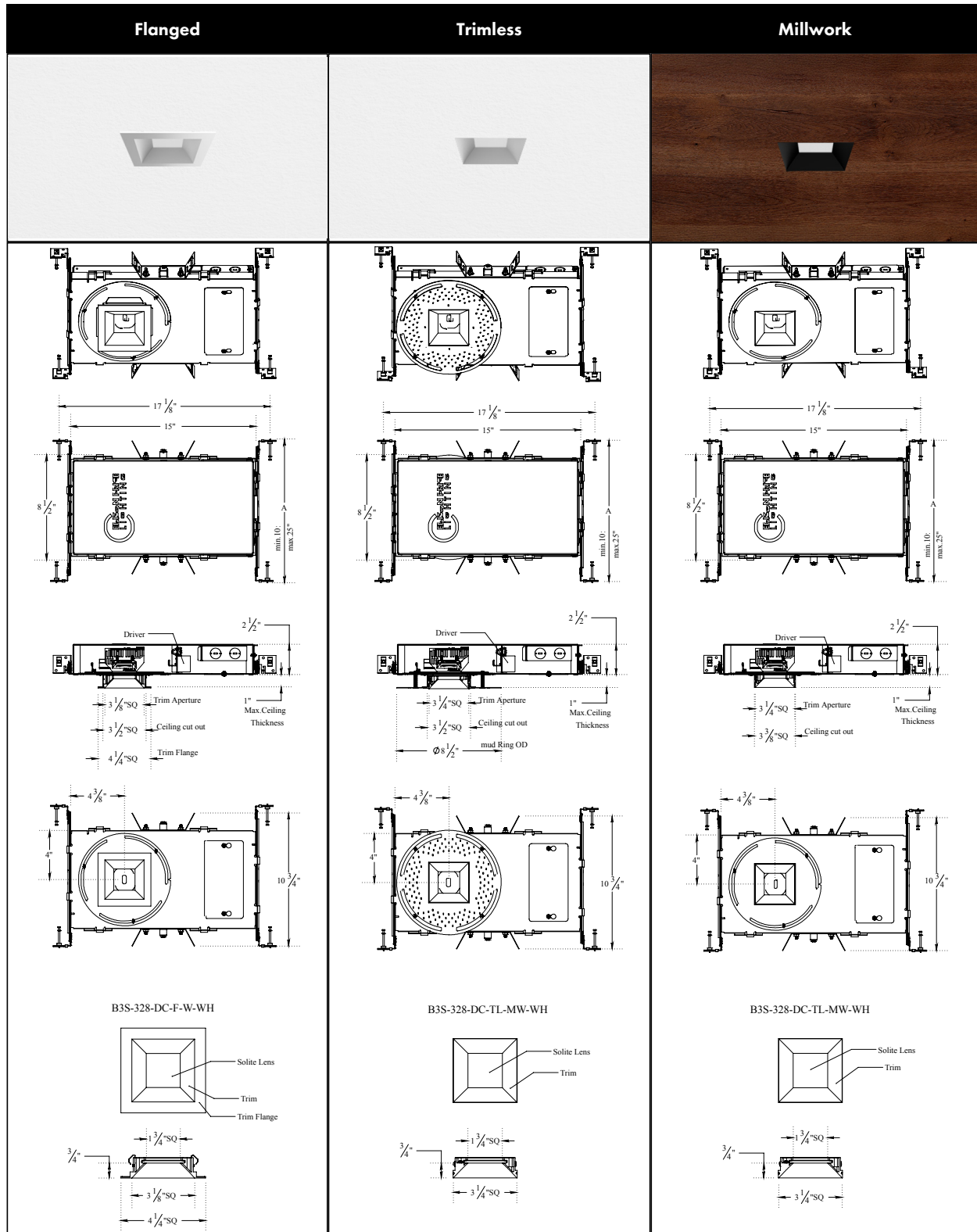
BOLD-3S-SHAL-2000L-40K-90-15D-DIM10-MVOLT-B3S-302-DC-F-WH-WH

TEST NO: EPL02242531

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

CANDELA DISTRIBUTION
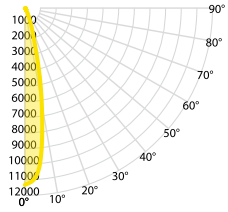
CANDELA TABLE

	0°	90°
0°	11326	11326
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°	1724684	1724684
45.00°	13094	15204
55.00°	4354	5270
65.00°	814	850
75.00°	594	671
85.00°	402	472

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	314.6 fc	2.2 ft	2.2 ft
8.0 ft	177.0 fc	2.9 ft	2.9 ft
10.0 ft	113.3 fc	3.7 ft	3.7 ft
12.0 ft	78.7 fc	4.4 ft	4.4 ft
14.0 ft	57.8 fc	5.1 ft	5.1 ft
16.0 ft	44.2 fc	5.8 ft	5.9 ft
18.0 ft	35.0 fc	6.6 ft	6.6 ft
20.0 ft	28.3 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	122	122	122	122	120	120	120	120	114	114	114	109	109	109	105	105	105	103
1	118	116	114	112	116	114	112	110	110	108	107	106	105	104	102	102	101	99
2	114	110	107	104	112	109	106	103	105	103	101	102	101	99	100	98	97	95
3	110	105	102	99	108	104	101	98	101	99	96	99	97	95	97	95	93	92
4	107	101	97	94	105	100	96	93	98	95	92	96	93	91	94	92	90	89
5	103	97	93	90	102	96	92	89	95	91	89	93	90	88	92	89	87	86
6	100	94	89	86	99	93	89	86	92	88	85	90	87	85	89	87	84	83
7	98	91	86	83	96	90	86	83	89	85	83	88	85	82	87	84	82	81
8	95	88	84	81	94	87	83	80	86	83	80	86	82	80	85	82	80	79
9	92	85	81	78	91	85	81	78	84	80	78	83	80	78	83	80	77	76
10	90	83	79	76	89	83	79	76	82	78	76	81	78	76	81	78	75	75

BOLD-3S-SHAL-2000L-40K-90-15D-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
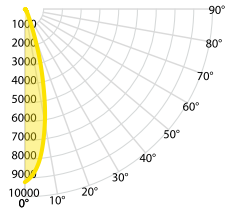
CANDELA TABLE

	0°	90°
0°	9223	9223
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°	1404466	1404466
45.00°	15159	16804
55.00°	5079	6159
65.00°	836	1016
75.00°	600	865
85.00°	349	716

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	256.2 fc	2.8 ft	2.8 ft
8.0 ft	144.1 fc	3.7 ft	3.7 ft
10.0 ft	92.2 fc	4.6 ft	4.6 ft
12.0 ft	64.0 fc	5.5 ft	5.6 ft
14.0 ft	47.1 fc	6.4 ft	6.5 ft
16.0 ft	36.0 fc	7.4 ft	7.4 ft
18.0 ft	28.5 fc	8.3 ft	8.4 ft
20.0 ft	23.1 fc	9.2 ft	9.3 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	122	122	122	122	119	119	119	119	114	114	114	109	109	109	104	104	104	102
1	118	115	113	111	115	113	111	110	109	108	106	105	104	103	102	101	100	98
2	113	110	106	104	111	108	105	102	105	102	100	102	100	98	99	97	96	95
3	109	104	101	97	108	103	100	97	101	98	95	98	96	94	96	94	92	91
4	106	100	96	93	104	99	95	92	97	94	91	95	92	90	93	91	89	88
5	102	96	92	88	101	95	91	88	94	90	87	92	89	86	90	88	86	85
6	99	93	88	85	98	92	88	84	90	87	84	89	86	83	88	85	83	82
7	96	89	85	82	95	89	84	81	88	84	81	86	83	81	85	83	80	79
8	93	86	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77
9	91	84	79	76	90	83	79	76	82	79	76	82	78	76	81	78	76	75
10	88	81	77	74	88	81	77	74	80	76	74	79	76	74	79	76	73	72

BOLD-3S-SHAL-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
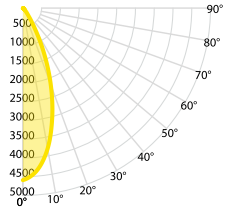
CANDELA TABLE

	0°	90°
0°	4592	4592
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°	699287	699287
45.00°	17317	23265
55.00°	5950	8145
65.00°	1167	1434
75.00°	747	1094
85.00°	454	874

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	10.0 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	12.9 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	122	122	122	122	119	119	119	119	113	113	113	109	109	109	104	104	104	102
1	116	114	112	110	114	112	110	108	108	106	105	104	103	101	100	99	98	97
2	112	107	103	100	109	105	102	99	102	99	97	99	97	95	96	95	93	91
3	107	101	96	93	105	100	95	92	97	94	91	95	92	89	92	90	88	86
4	102	95	90	87	101	94	90	86	92	88	85	90	87	84	88	86	83	82
5	98	91	85	81	96	90	85	81	88	84	80	86	83	80	85	82	79	78
6	94	86	81	77	93	85	80	77	84	79	76	82	79	76	81	78	75	74
7	90	82	77	73	89	81	76	73	80	76	72	79	75	72	78	74	72	70
8	87	78	73	69	86	78	73	69	77	72	69	76	72	69	75	71	68	67
9	83	75	70	66	82	74	69	66	73	69	66	73	68	65	72	68	65	64
10	80	72	66	63	79	71	66	63	70	66	63	70	66	63	69	65	62	61

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

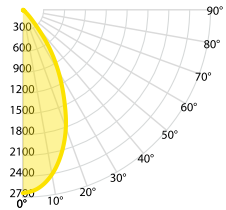**TEST NO: EPL02242531**

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

CANDELA DISTRIBUTION

CANDELA TABLE

	0°	90°
0°	2642	2642
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°	315941	315941
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	18.3 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	121	121	121	121	119	119	119	119	113	113	113	108	108	108	104	104	104	102
1	116	113	110	108	113	111	108	106	107	105	103	103	101	100	99	98	97	95
2	110	105	101	98	108	103	100	96	100	97	94	97	94	92	94	92	90	89
3	105	98	93	89	102	97	92	88	94	90	87	91	88	85	89	86	84	83
4	99	92	86	82	97	90	85	81	88	84	80	86	82	79	84	81	78	77
5	94	86	80	76	93	85	79	75	83	78	75	81	77	74	80	76	73	72
6	90	81	75	70	88	80	74	70	78	73	69	77	72	69	75	72	68	67
7	85	76	70	65	84	75	69	65	74	69	65	73	68	65	71	67	64	63
8	81	71	65	61	80	71	65	61	70	65	61	69	64	61	68	64	60	59
9	77	68	62	58	76	67	61	57	66	61	57	65	60	57	64	60	57	56
10	74	64	58	54	73	64	58	54	63	58	54	62	57	54	61	57	54	52

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.