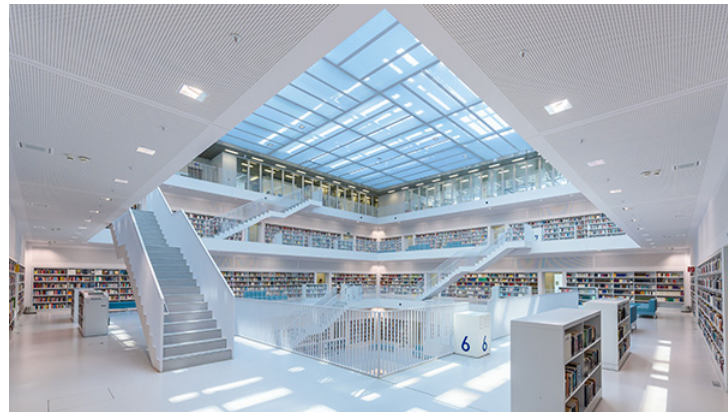
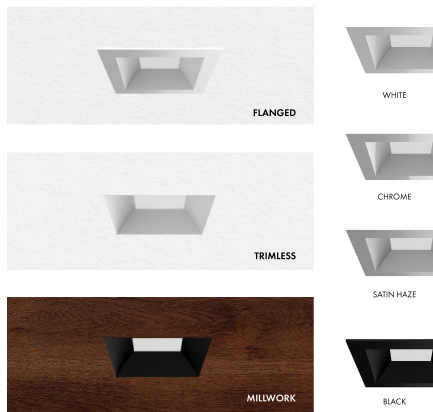


3"

BOLD-3S-FH

3" Architectural Square Flat Housing Downlight - Trim, Trimless &amp; Millwork

Bold Series



#### APPLICATION & FEATURES

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

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

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

<b>LUMENS</b>	<b>High Performance:</b> 900L, 1200L, 1500L and 2000L <b>Warm Dimming:</b> 900L, 1200L and 1500L <b>Xicato Artist:</b> 900L and 1200L
<b>CCT &amp; DYNAMIC PLATFORMS</b>	<b>High Performance:</b> 27K, 30K, 35K, 40K and 50K <b>Warm Dimming:</b> 18K-30K, 27K-30K and 22K-30K <b>Xicato Artist:</b> 27K, 30K, 30K-VIB, 35K and 40K
<b>CRI</b>	<b>High Performance:</b> 90+ and 98+ <b>Warm Dimming:</b> 90+ <b>Xicato Artist:</b> 90+ and 98+
<b>COLOR QUALITY</b>	2 Step MacAdam Ellipse
<b>DISTRIBUTIONS</b>	Very Narrow Spot (10°), Narrow Spot (15°), Spot (24°), Medium (36°) and Wide (60°)
<b>DRIVER</b>	<b>High Performance:</b> DIM10, DIMTR, ELDO10-LOG, ELDO10.1-LIN, ELDODALI.1 and BLE-CASAMBI <b>Warm Dimming:</b> DIM10, DIMTR, ELDO10-LOG, ELDO10.1-LIN, ELDODALI.1 and BLE-CASAMBI <b>Xicato Artist:</b> DIM10, DIMTR, ELDO10-LOG, ELDO10.1-LIN, ELDODALI.1 and BLE-CASAMBI
<b>TRIM OPTIONS</b>	<b>Downlight:</b> Flanged, Trimless, Millwork <b>Pinhole:</b> Flanged, Trimless, Millwork
<b>FINISH OPTIONS</b>	<b>Anodized:</b> White (WH), Black (BK), Chrome (CL), Satin Haze (SHZ), Silver (SI), Bronze (BZ), Custom Color (RAL) <b>Diecast:</b> White (WH), Black (BK), Silver (SI), Bronze (BZ), Custom Color (RAL)
<b>EMERGENCY</b>	EMG-10, EMG-20, EMG-10-SDT, EMG-20-SDT and GTD
<b>LIFETIME</b>	LED is rated for >60,000 hours at 70% lumen maintenance
<b>PHOTOMETRIC TESTS</b>	In Accordance with IES LM79-08, LM80 and TM-30, TM-23



3"

BOLD-3S-FH

3" Architectural Square Flat Housing Downlight - Trim, Trimless &amp; Millwork

Bold Series

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

Series	Flange Options	Lumens	CCT	CRI	Optics	Driver	Voltage	Emergency	Options	Optical Accessories
<b>BOLD-3S-FH</b>	-	<b>900L</b>	<b>27K</b>	<b>90+</b>	<b>10D</b>	<b>DIM10</b>	<b>120V</b>	-	-	-
	Flanged	<b>1200L</b>	<b>30K</b>	<b>98+ 2</b>	Very Narrow Spot (10°)	<b>DIMTR 3</b>	<b>MVOLT</b>	All emergency options require top access, remote emergency test switch included	<b>RIF</b> RIF Filter	<b>SOFL</b> Solite Frosted
	Trimless	<b>1500L</b>	<b>35K</b>		<b>15D</b>	<b>ELDO10-LOG</b>			<b>REM 5</b> Single Remote Dimming Driver	<b>SFL</b> Soft Focus Lens
	<b>MW</b> Millwork	<b>2000L 1</b>	<b>40K</b>		Narrow Spot (15°)	<b>ELDO10.1-LIN</b>		<b>EMG-10</b>	<b>BABA</b> Made in America Compliance	<b>SPD</b> Spread Linear Lens
			<b>50K</b>		<b>24D</b> Spot (24°)	<b>ELDODALI.1</b>		<b>EMG-20</b>		<b>UVL</b> UV Lens
					<b>36D</b> Medium (36°)	<b>BLE-CASAMBI</b>		<b>EMG-10-SDT</b>	<b>Controls</b> See last page	<b>HCL</b> Honey Comb Louver
					<b>60D</b> Wide (60°)			<b>EMG-20-SDT</b>		<b>PRS</b> Prismatic Lens
								<b>GTD</b>		

Any fixture can take maximum 2 Optical Accessories    1 The highest 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-FH-WDM-900L-18K-30K-90-15D-DIM10-120V**

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

Any fixture can take maximum 2 Optical Accessories    1 The highest 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

3"

BOLD-3S-FH

3" Architectural Square Flat Housing Downlight - Trim, Trimless & Millwork

Bold Series

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

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


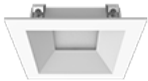


Any fixture can take maximum 2 Optical Accessories 1 The highest lumen will not be compatible with any optical accessories 2 95+ CRI is not available on 50K 3 DIMTR is only available with 120V 4 347V is only available with DIM10 5 Remote mount Maximum distance from light fixture to remote power supply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

3"

**BOLD-3S-FH**





3" Architectural Square Flat Housing Downlight - Trim, Trimless &amp; Millwork

**Bold Series****FLANGED REFLECTOR TYPE**Example: **B3S-302-A-F-WH-WH**

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

**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
 <b>B3S-302</b> Open Downlight	 <b>B3S-328</b> Solite Lens Downlight <b>WET LOCATION</b>	<b>A</b> Anodized <b>DC</b> Diecast	<b>TL</b> Trimless <b>MW</b> Millwork	<b>WH</b> White <b>BK</b> Black <b>SI</b> Silver <b>BZ</b> Bronze <b>CL 1</b> Chrome <b>SHZ 1</b> Satin Haze <b>RAL</b> Custom Color (Consult Factory)
 <b>B3S-314</b> Open Pinhole	 <b>B3S-315</b> Solite Lens Pinhole <b>WET LOCATION</b>			

**1** Only available in anodized

## 3" Architectural Square Flat Housing Downlight - Trim, Trimless &amp; Millwork

## Bold Series

## DESCRIPTION

The BOLD-3S-FH 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-FH 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-FH 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 &amp; 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.

## 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**

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

**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 forward phase dimming. Available in 120V only

🔗 **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 Casambi 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.

3"

**BOLD-3S-FH**

3" Architectural Square Flat Housing Downlight - Trim, Trimless & Millwork

**Bold Series**

Flanged	Trimless	Millwork
<b>B3S-328-DC-F-WH</b>	<b>B3S-328-DC-TL-MW</b>	<b>B3S-328-DC-TL-MW</b>



3"

BOLD-3S-FH

3" Architectural Square Flat Housing Downlight - Trim, Trimless &amp; Millwork

Bold Series

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

TEST NO: EPL02242531

INPUT WATTS:22.8

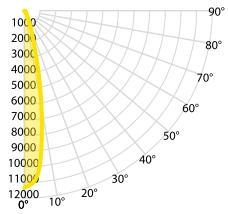
LUMENS:2079

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°	1354564	1354564
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	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

pf	20%																0%
pc	70%																0%
pw	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	10%	0%
0	123	123	123	123	120	120	120	120	114	114	114	110	110	110	105	105	103
1	118	116	114	112	116	114	112	111	110	108	107	106	105	104	103	102	99
2	114	110	107	105	112	109	106	104	106	103	101	103	101	99	100	98	96
3	111	106	102	99	109	104	101	98	102	99	96	99	97	95	97	95	92
4	107	101	97	94	105	100	96	93	98	95	92	96	93	91	94	92	89
5	104	97	93	90	102	97	93	89	95	91	89	93	90	88	92	89	86
6	101	94	90	86	99	93	89	86	92	88	86	91	87	85	89	87	83
7	98	91	87	83	97	90	86	83	89	86	83	88	85	82	87	84	81
8	95	88	84	81	94	88	84	81	87	83	80	86	82	80	85	82	79
9	93	86	81	78	92	85	81	78	84	81	78	84	80	78	83	80	77
10	90	83	79	76	89	83	79	76	82	79	76	82	78	76	81	78	75

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

TEST NO: EPL02242531

INPUT WATTS:23.1

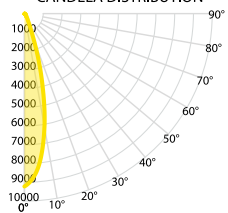
LUMENS:2203

EFFICACY: 95

BEAM ANGLE:26

SPACING CRITERIA: 0.43

CANDELA DISTRIBUTION



CANDELA TABLE

	0°	90°
0°	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°	1103065	1103065
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	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

pf	20%																0%
pc	70%																0%
pw	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	10%	0%
0	122	122	122	122	119	119	119	119	114	114	114	109	109	109	105	105	103
1	118	116	113	112	115	113	112	110	109	108	106	105	104	103	102	101	99
2	114	110	107	104	111	108	105	103	105	102	100	102	100	98	99	96	95
3	110	105	101	98	108	103	100	97	101	98	95	98	96	94	96	94	91
4	106	100	96	93	104	99	95	92	97	94	91	95	92	90	93	91	88
5	103	96	92	89	101	95	91	88	94	90	87	92	89	87	91	88	85
6	99	93	88	85	98	92	88	85	91	87	84	89	86	84	88	85	82
7	96	89	85	82	95	89	85	82	88	84	81	87	83	81	86	83	79
8	94	87	82	79	93	86	82	79	85	81	79	84	81	78	83	80	77
9	91	84	79	76	90	83	79	76	83	79	76	82	78	76	81	78	75
10	89	81	77	74	88	81	77	74	80	77	74	80	76	74	79	76	73





3"

BOLD-3S-FH

3" Architectural Square Flat Housing Downlight - Trim, Trimless &amp; Millwork

Bold Series

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

TEST NO: EPL02242531

INPUT WATTS:21.7

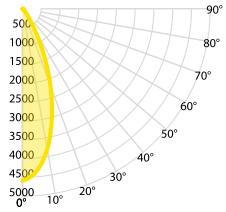
LUMENS:2237

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°	549219	549219
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	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

pf	20%																0%
pc	70%																0%
pw	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%
0	122	122	122	122	119	119	119	119	114	114	109	109	109	104	104	104	102
1	117	114	112	110	114	112	110	108	108	106	105	104	103	102	101	100	99
2	112	107	104	101	110	106	102	99	102	100	97	99	97	95	96	95	93
3	107	101	97	93	105	100	96	92	97	94	91	95	92	89	92	90	88
4	102	96	91	87	101	95	90	86	92	88	85	90	87	84	89	86	83
5	98	91	85	82	97	90	85	81	88	84	81	86	83	80	85	82	79
6	94	86	81	77	93	85	80	77	84	80	76	83	79	76	81	78	75
7	90	82	77	73	89	81	76	73	80	76	72	79	75	72	78	74	72
8	87	78	73	69	86	78	73	69	77	72	69	76	72	69	75	71	68
9	84	75	70	66	82	74	69	66	74	69	66	73	69	66	72	68	65
10	80	72	67	63	79	71	66	63	71	66	63	70	66	63	69	65	63

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

TEST NO: EPL02242531

INPUT WATTS:21.7

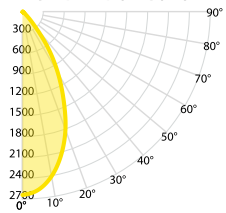
LUMENS:2138

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

pf	20%																0%
pc	70%																0%
pw	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%
0	122	122	122	122	119	119	119	119	113	113	113	109	109	109	104	104	104
1	116	113	111	108	113	111	109	107	107	105	103	103	102	100	99	98	95
2	110	105	101	98	108	104	100	97	100	97	95	97	95	92	94	92	89
3	105	98	93	89	103	97	92	88	94	90	87	92	88	86	89	87	84
4	99	92	86	82	98	91	85	81	88	84	80	86	83	79	84	81	79
5	94	86	80	76	93	85	79	75	83	78	75	81	77	74	80	76	73
6	90	81	75	70	88	80	74	70	78	73	70	77	72	69	76	72	69
7	85	76	70	66	84	75	70	65	74	69	65	73	68	65	72	67	64
8	81	72	66	61	80	71	65	61	70	65	61	69	64	61	68	64	60
9	77	68	62	58	76	67	61	58	66	61	57	65	61	57	64	60	57
10	74	64	58	54	73	64	58	54	63	58	54	62	57	54	61	57	54



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

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

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

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

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

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

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

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

**8** - 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.