

imagine





OPTICS. ONENESS. OPTIONS.

LED has given us skinny lines of light in fun and creative patterns, a welcome addition to the lighting artist's palette, but are smaller form factors and patterns all LED linear lighting has to offer? Enter our BB2 Series, a high-performance slimmed-down variation on our award-winning Bionic and P40 Series. Powered by our FusionOptics™ technology, light is sculpted to enhance and amplify the beauty and majesty of architectural interiors with meticulously designed and wonderfully precise optical luminaires.

- 1) **Superior Optical Control** from a single ray of light—accenting works of art, grazing wall details, even fully illuminating wide corridors from just one side of the perimeter.
- 2) **Visual Oneness** across our robust line, giving you endless choices for redefining your space with continuity of aesthetic.
- 3) **A Multitude of Options** to accommodate any installation challenge or lighting requirement—made-to-order modifications, quick delivery and superior solutions for tighter budgets.





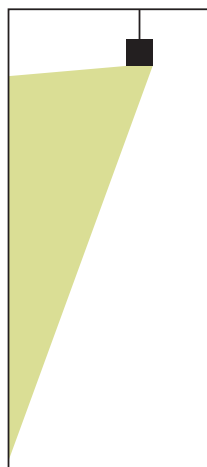
CLIENT | Pacific Dental, Irvine, CA ARCHITECT | LPA Inc. PHOTOGRAPHER | Costea Photography

OPTICS

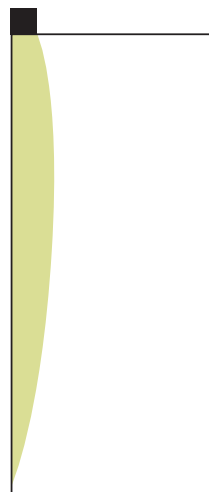
Gone are the days of mechanical kickers or makeshift solves to achieve the desired effect. Our recently patented FusionOptics™ gives the Bionic and P40 Series astounding optical control, shaping the light in new and powerful ways—while maintaining high levels of efficacy (up to 100 lm/w).

This breakthrough is more than an engineering coup. It's a transformation that enhances the experience within the environment, whether it's a hospital, school or open office space. The even distribution of light offers a far smoother gradient that eliminates glare, creating a softness that's far more pleasing to the eye. Plus, the entire line was designed as a cohesive offering, so you no longer have to cobble together options from different sources. It's all right here.

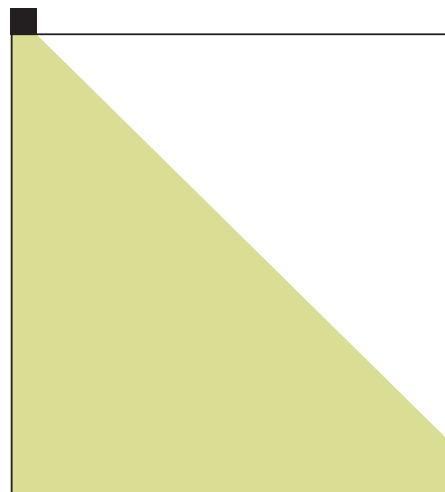
WALL WASH



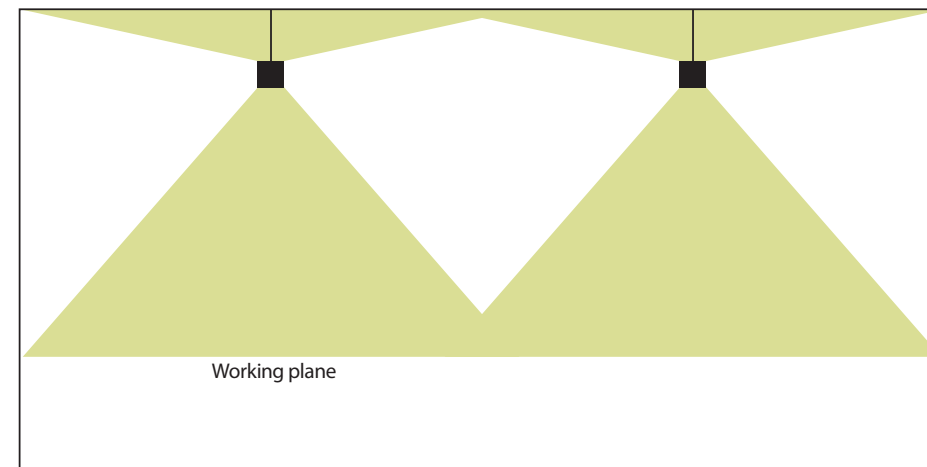
WALL GRAZE



PERIMETER FILL



DIRECT: BATWING / INDIRECT: CEILING WASH



Batwing for Bionic only, not available with P40





OPTICS



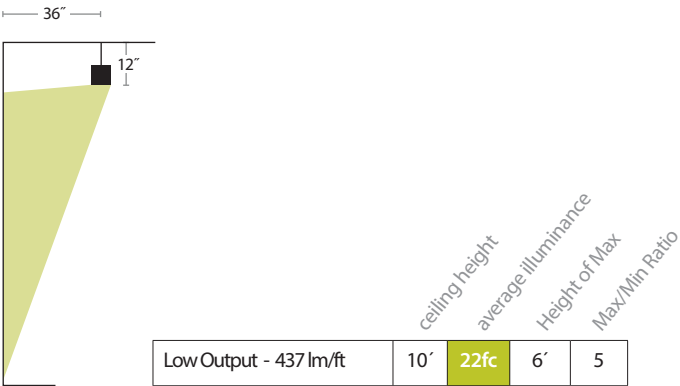
Wall Wash

Superior optical performance translates to a smooth and clean gradient of light to wash walls evenly, creating just the right amount of highlight at eye level to subtly pique visual interest.

- Phenomenal efficacy (up to 100 lm/w)
- Sleek and minimal lensed wall wash with no open cavity or unsightly mechanical kicker
- Suspended, surface mounted or recessed
- Optional indirect ceiling light wash for suspended or wall mount

VERTICAL UNIFORMITY

Through FusionOptics™ we are able to achieve nearly ideal light distribution down a wall to highlight artwork or the wall itself. 30" - 36" distance from wall surface recommended for best results.



Footcandles on Wall

9'	6	6	6
8'	17	17	17
7'	27	27	27
6'	30	30	30
5'	29	29	29
4'	26	26	26
3'	23	23	23
2'	21	21	21
1'	18	18	18

CALCULATION NOTES:
BIOS-LED4-LO-AWL-D1W
• 4000K at 4.5 w/ft
• 100 lm/w
• .8 LLF (Light Loss Factor)



OPTICS

Wall Graze

A tight, focused beam grazes wall textures evenly, accenting and highlighting details to elevate the visual drama.

- Highly energy efficient at up to 80 lm/w
- Recessed or 3" regressed into perimeter, suspended, surface or wall mounted
- Optional indirect component applications for suspended or wall mount



The Shape of Seeing

Precision-engineered, physics-driven FusionOptics™ reengineers light. It's that simple.

SCULPTS

By integrating reflector and refractor design, FusionOptics places the light with absolute control, maximizing impact.

REFINES

Harnessing and distilling every ray, our patented FusionOptics removes hotspots and striations.

OPTIMIZES

Designed to maximize light passing through, FusionOptics redefines the standard for energy efficiency.

SMOOTH WALL GRAZING

Through FusionOptics™ we are able to achieve even light grazing down a wall to highlight wall textures. Recessed or regressed into the perimeter or wall mounted.

28
60
73
68
56
43
31
23
17

CALCULATION NOTES:
BIOS-LED4-SO-AWW-D1G
• 4000K at 10 w/ft
• 80 lm/w
• .9 LLF (Light Loss Factor)





OPTICS

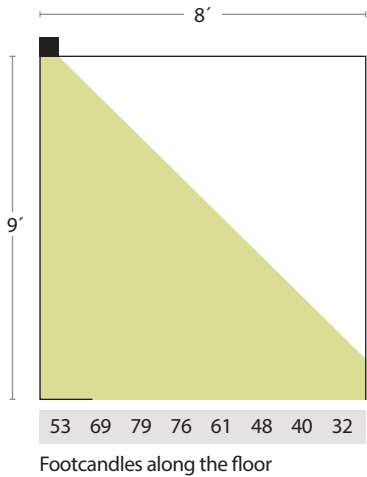
Perimeter Fill

We don't just fabricate this lighting concept. We own it. It's a perimeter optic (recessed or wall-mounted) that washes corridors in light, offering outstanding light distribution, far superior to the typical soft glow solutions.

- Ideal for hospital corridors or other spaces where lighting needs to be tucked out of the way yet high light levels are required
- Wall-mounted fixture can also wash a corridor ceiling with indirect light (bouncing even more light down into the space)
- Exceedingly efficient at up to 100 lm/w

WASH A CORRIDOR IN LIGHT—
FROM THE PERIMETER

Through FusionOptics™ the Perimeter Fill optic is able to achieve far better light distribution across a corridor than typical perimeter lighting.



CALCULATION NOTES:

- BIO-PSTD-FLSH-LED4-SO-AWL-D1R
- 4000K at 10w/ft
 - 90 lm/w
 - .9 LLF (Light Loss Factor)

	Watts/Sq. Ft.	Ceiling Height	Average Illuminance	Max/Min	Max/Min Ratio
Standard Output - 875 lm/ft	1.25	9'	57fc	79/32	2.5:1





CLIENT | Sage Hill High School, Newport Coast, CA ARCHITECT | Steinberg Architects PHOTOGRAPHER | Tim Griffith

OPTICS

DIRECT:

INDIRECT:

Batwing / Ceiling Wash

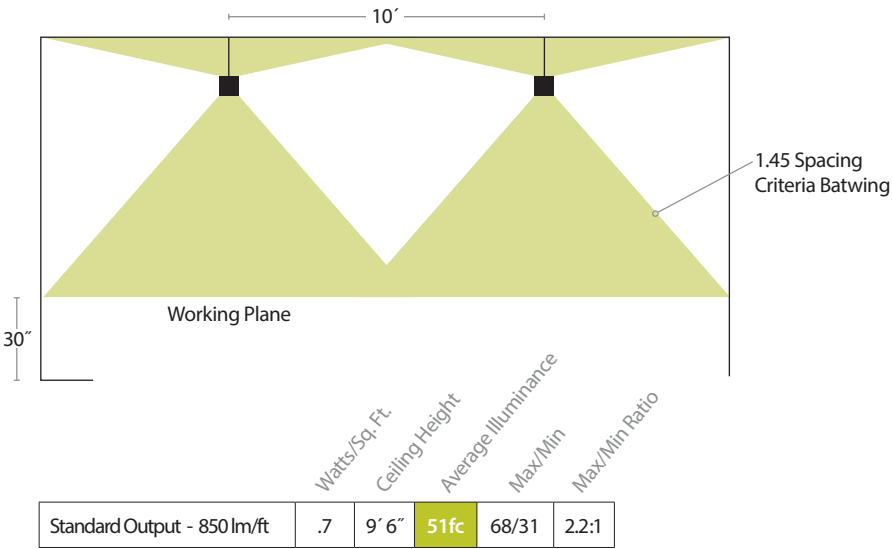
Wider distribution of light gives our Batwing an energy-efficient advantage over the typical open office linear illumination. Our Ceiling Wash distributes indirect light in a broad, low angle beam maximizing ceiling uniformity and minimizing glare.

- Lower watts/sq. ft. and remarkably even light distribution at the working plane for gentle illumination — ideal for classrooms and open offices
- **Batwing***: Wide throw allows for wider spacing of fixtures (12’ or 14’ fixture spacing compared to typical 8’ or 10’)
- **Ceiling Wash**: Extreme low angle batwing creates beautifully uniform ceilings
- Exceedingly efficient at up to 100 lm/w

* Batwing is available with Bionic only

WIDE, EVEN INDIRECT LIGHT

Through FusionOptics™ the Batwing and Ceiling Wash provide even light distribution at the Working Plane. Too bright? Dim uplight and down separately.



Batwing for Bionic only, not available with P40

Footcandles on: CEILING

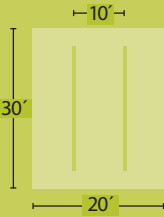
20	32	20	20	32	20
35	74	37	37	74	35
37	77	40	40	77	37
38	77	40	40	77	38
38	77	41	41	77	38
38	77	41	41	77	38
38	77	40	40	77	38
37	77	40	40	77	37
35	74	37	37	74	35
20	32	20	20	32	20

Footcandles at: WORKING PLANE

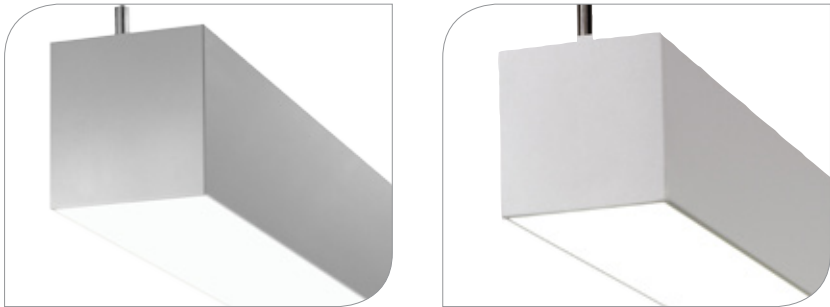
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51	53	48	48	53	51
59	62	56	56	62	59
62	66	60	60	66	62
63	66	61	61	66	63
63	66	61	61	66	63
62	66	60	60	66	62
59	62	56	56	62	59
51	53	48	48	53	51
34	35	34	34	35	34

CALCULATION NOTES:

BIOS-LED4-LO/LO-ABW-CW
• 4000K at 9w/ft
• 97 lm/w
• .9 LLF (Light Loss Factor)



OPTIONS



BIONIC SERIES

- Extruded Aluminum
- Highly customizable
- Fits Armstrong Techzone 6"
- Precision & detail

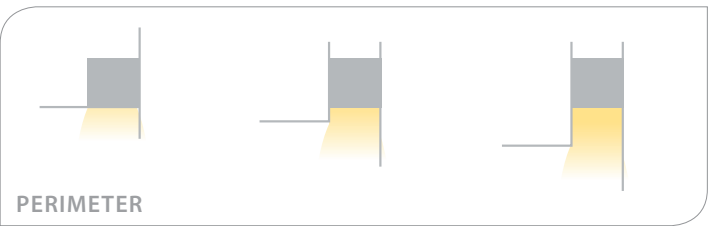
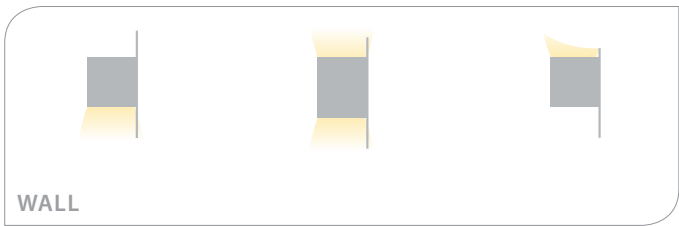
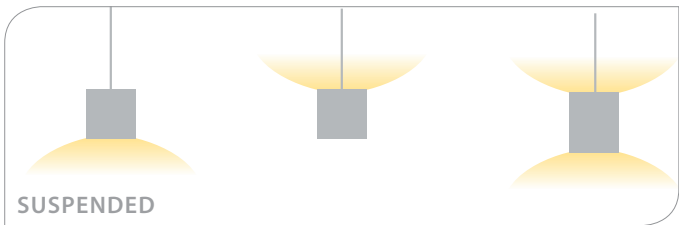
P40 SERIES

- Steel housing
- Fast 10-day lead times
- Field-trimmable recessed kit
- Budget-friendly

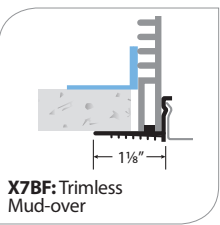
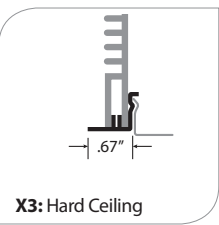
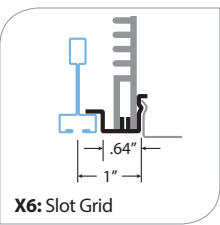
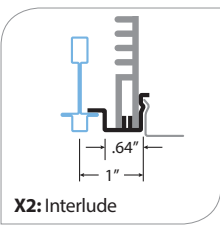
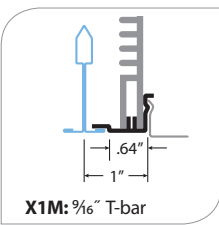
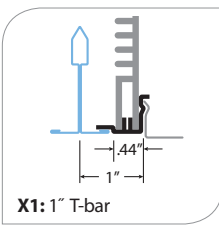
BOTH

- Superior optics & efficacy
- 2700K, 3000K, 3500K, 4000K
- 4 output levels (4.5, 7, 10 and 12 w/ft)
- Comprehensive 5-year warranty

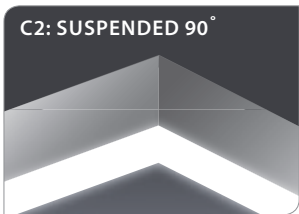
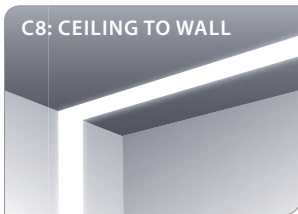
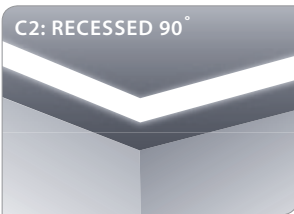
MOUNTING OPTIONS:



RECESSED MOUNTING OPTIONS:



CORNERS:



FOR SIXTY YEARS, PRUDENTIAL LTG. has excelled at made-to-order manufacturing, intently punching steel, welding aluminum and harnessing the power of LEDs to precise specifications. And we do it all right here in our 100,000 sq. ft. plant minutes outside downtown Los Angeles. If you're in the area, stop by. We'd love to show you around.



21 PREMIUM COLORS — NO SET-UP FEES!



For paint chip samples, please e-mail: info@prulite.com



BIONIC PERIMETER

SERIES	LENS POSITION	LED COLOR	OUTPUT	NOMINAL LENGTH	TRIM COLOR	SHIELDING	DISTRIBUTION	MOUNTING	CIRCUITING	VOLTAGE	CEILING SYSTEMS	DRIVERS	OPTIONS & CONTROLS
BIO-PSTD													
Bionic Perimeter Standard	FLSH Flush Lens REG1 1" Regress Lens REG3 3" Regress Lens	LED27 2700K LED3 3000K LED35 3500K LED4 4000K	LO Low MO Medium SO Standard HO High PROG Programmable Light Output (Specify desired lm/ft or w/ft)	2' 3' 4' 6' 8' R (Row length)	TMW Textured Matte White (Standard) YGW Gloss White Y Premium Color CC Custom Color	SAL Satin Acrylic Lens (D1 only) AWW Acrylic Wall Grazer Lens (D1G only) AWL Acrylic Wall Wash Lens (D1R only) SAL-D1 AWW-D1G AWL-D1R	D1 Direct (SAL only) D1G Wall Grazer (AWW only) D1R Perimeter Fill (AWL only, NA - REG3)	WTW Wall to Wall (Any row length) LP Light Pocket (Typically 1' increments, fixture stops before wall)	SC Single Circuit	347 UNV (120-277)	X1 T-Bar Exposed X1M T-Bar 9/16" X2 Interlude T-Bar X6 Slot Grid X3 Hard Ceiling X7BF Hard Ceiling (Trimless mud-over with backer flange)	ND Non-Dimming DM10 0-10v, 10% Dimming (Standard) DM01 0-10v, 1% Dimming STEP Step Dimming, 100-50-Off, Osram NOTE: Lumens and watts per foot may differ for STEP drivers, consult factory LDE5 5%, Lutron (Ecosystem) LDE1 1%, Lutron (Soft Fade to Black, Ecosystem) L3DA 1%, Lutron, 3 Wire ECO 1% 0-10v, EldoLED ECDA 1% DALI, EldoLED SOLO 0.1% 0-10v, EldoLED (Dim to Dark) SODA 0.1% DALI, EldoLED (Dim to Dark)	EML Emergency Battery, Low (D1 ~ 850 delivered lumens, D1G ~ 600) EMH Emergency Battery, High (D1 ~1175 delivered lumens, D1G ~ 900) M1 12" MR16 Module (adj.) 1/50w (max) Lamp M2 12" MR16 Module (adj.) 2/50w (max) Lamp C2 90° 2-Way Lit Corner w/Acrylic Lens CP Chicago Plenum PRUBIN Meticulous Binning and Labeling every LED Board within a 2-Step MacAdams Ellipse NOTE: All MR16 lamps by others

BIONIC RECESSED LINEAR

SE-RIES	LENS POSITION	LED COLOR	OUTPUT	NOM LENGTH	TRIM COLOR	SHIELDING	DISTRIBUTION	CIRCUITING	VOLTAGE	CEILING SYSTEM	DRIVERS	OPTIONS & CONTROLS
BIO-STD												
Standard	FLSH Flush Lens REG1 1" Regressed Lens	LED27 2700K LED3 3000K LED35 3500K LED4 4000K	LO Low MO Medium SO Standard HO High PROG Programmable Light Output (Specify desired lm/ft or w/ft)	2' 3' 4' 6' 8' R (Row length) Note: Individual fixtures are not intended for row mounting	TMW Textured Matte White (Standard) YGW Gloss White Y Premium Color CC Custom Color	ABW Acrylic Batwing Lens (D1X only) SAL Satin Acrylic Lens (D1 only) AWL Acrylic Wall Wash Lens (D1W & D1R) AWW Acrylic Wall Grazer Lens (D1G only)	D1X Symmetric Batwing w/ 1.4 sc (ABW only) D1 Direct (SAL only) D1W Wall Wash (AWL lens only) D1R Asymmetric to Room (AWL lens only) D1G Wall Grazer (AWW only)	SC Single Circuit	347 UNV (120-277)	X1 T-Bar 15/16" X1M T-Bar 9/16" X2 Dimensional T-Bar Armstrong Interlude® X6 Slot Grid X3 Hard Ceiling (Flange Trim) X7BF Hard Ceiling (Trimless Mud-over Backer Flange) M Mixed Ceiling	ND Non-Dimming DM10 0-10v, 10% Dimming (Standard) DM01 0-10v, 1% Dimming STEP Step Dimming, 100-50-Off, Osram NOTE: Lumens and watts per foot may differ for STEP drivers, consult factory LDE5 5%, Lutron (Ecosystem) LDE1 1%, Lutron (Soft Fade to Black, Ecosystem) L3DA 1%, Lutron, 3 Wire ECO 1% 0-10v, EldoLED ECDA 1% DALI, EldoLED SOLO 0.1% 0-10v, EldoLED (Dim to Dark) SODA 0.1% DALI, EldoLED (Dim to Dark) Note: All MR16 lamps by others	EML Emergency Battery, Low (D1, D1W ~ 850 delivered lumens, D1G ~ 600) EMH Emergency Battery, High (D1, D1W ~1175 delivered lumens, D1G ~ 900) M1 12" MR16 Module (adj.) 1/50w (max) Lamp M2 12" MR16 Module (adj.) 2/50w (max) Lamp M4 Cross MR16 Module (adj.) 1/50w (max) Lamp C2 90° 2-Way Lit Corner C3 T-Shape 3-Way Connector C4 90° 4-Way Mitered Connector C8 Wall to Ceiling Connector CP Chicago Plenum PRUBIN Meticulous Binning and Labeling every LED Board within a 2-Step MacAdams Ellipse

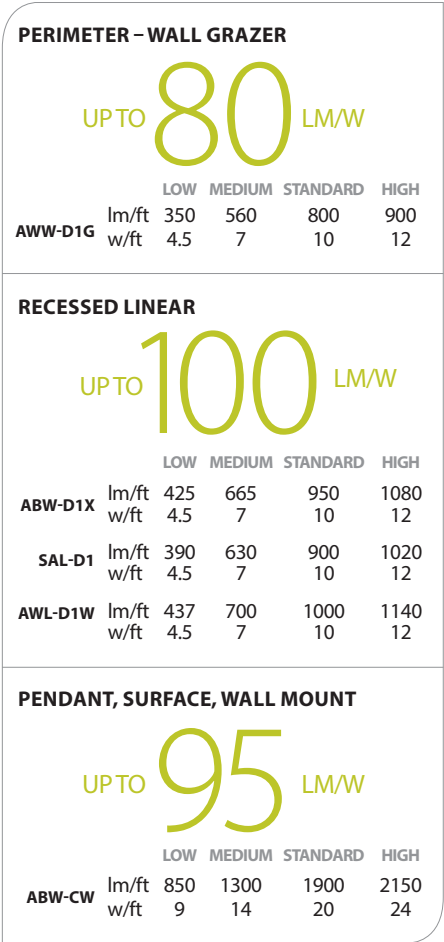
For P40 Series and complete Bionic specifications, please visit:

prulite.com

BIONIC PENDANT, SURFACE, WALL MOUNT

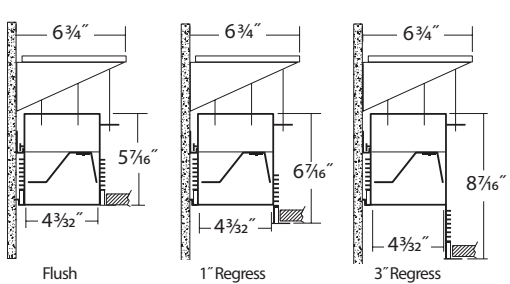
SE-RIES	LED COLOR	OUTPUT	NOMINAL LENGTH	COLOR/ FINISH	SHIELDING	DISTRIBUTION	CIRCUITING	VOLTAGE	MOUNTING	CEILING SYSTEMS	DRIVERS	OPTIONS & CONTROLS
BIO-LIN		-				-						
Linear	LED27 2700K LED3 3000K LED35 3500K LED4 4000K (Consult factory for fluorescent options)	LO Low MO Medium SO Standard HO High PROG Programmable Light Output (Specify desired lm/ft or w/ft)	2' 3' 4' 6' 8' R (Row length) Note: CW optic only available in even lengths, last 1' of odd lengths will be SYM. Individual fixtures are not intended for row mounting Row lengths are typically made up of 8" and 4' fixtures, (eg. 12' row is (1) 8" and (1) 4', unless symmetric row lengths are requested.	TMW Textured Mat White (Standard) YGW Gloss White Y Premium Color CC Custom Color	SAL Satin Acrylic Lens (D1 only) ABW Acrylic Batwing (D1X only) AWL Wall Wash Lens (D1W or D1R only) AWW Wall Graze Lens (D1G only)	Choose Down -AND- Up DOWN: NW No Downlight UP: NU No Uplight D1 Direct (SAL lens Only) D1X Batwing (ABW only) D1W Wall Wash (AWL only) D1R Perimeter Fill (Wall mount with AWL only) D1G Wall Grazer (AWW only, NA with Uplight. WB recommended for wall mount) CW Ceiling Wash (NA for corners) SYM Symmetric Glow ASY-R/W Asymmetric Glow ASY-R: Room Side (Optic direction) ASY-W: Wall Side	SC Single Circuit DC Dual Circuit	347 UNV (120-277)	CA48", 96" or 144" Aircraft Cable (Adjustable) SUR Surface Mount (D1/ NU only) WB Wall Bracket (2" Standoff) WS Wall Spacer (1/2" Standoff) WM Direct to Wall (ADA Compliant) SSC Stem Mount (Specify length, NU only)	X1 T-Bar 15/16" Exposed (Standard) X3 Hard Ceiling X6 Slot Grid	ND Non-Dimming DM10 0-10v, 10% Dimming (Standard) DM01 0-10v, 1% Dimming STEP Step Dimming, 100-50-Off, Osram NOTE: Lumens and watts per foot may differ for STEP drivers, consult factory LDE5 5%, Lutron (Ecosystem) LDE1 1%, Lutron (Soft Fade to Black, Ecosystem) L3DA 1%, Lutron, 3 Wire ECO 1% 0-10v, EldoLED ECDA 1% DALI, EldoLED SOLO 0.1% 0-10v, EldoLED (Dim to Dark) SODA 0.1% DALI, EldoLED (Dim to Dark)	EML Emergency Battery, Low (D1, D1W ~ 850 delivered lumens, D1G ~ 600) EMH Emergency Battery, High (D1, D1W ~1175 delivered lumens, D1G ~ 900) C2 90° 2-Way Lit Corner CX Special Connector (Consult factory) IBC Insulated Braided Cord PRUBIN Meticulous Binning and Labeling every LED Board within a 2-Step MacAdams Ellipse

LUMEN OUTPUT



Lumen output may vary +/- 5% 4000K used for lm/ft estimates above 3500K -2% Ifl, 3000K -4%, 2700K -6% See LED Details PDF for more info

PERIMETER



CONSTRUCTION

Housing Extruded aluminum >25% PC recycled, 100% recyclable
Lens Acrylic, 100% recyclable

ELECTRICAL

Must specify LED dimming controls. LED fixtures have constant current driver(s) with less than 20% THD when loaded to a minimum of 60%. Drivers sink a maximum of 6mA per driver. DM10 LED drivers are 0-10V dimmable and are compatible with most 0-10V wall slide dimmers and direct 0-10V analog signal dimmers.

LUMEN MAINTENANCE

Designed to last with cool running mid-power LEDs projected to maintain 90% (L90) of their initial output for 100,000 hours (at HO), and L70 exceeding 150,000 hours.

LED SYSTEM

LED modules and drivers are field replaceable.

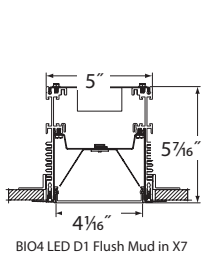
PROG (optional)

Programmable light output. Specify desired lumens or watts per linear foot. Min: 2.5 w/ft, consult factory for requests above 12 w/ft.

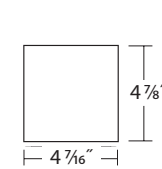
PRUBIN™

Prudential Ltg's exclusive 'job binning' method that ensures color temperature consistency across all luminaires on a project. Meticulously testing and labeling EVERY LED BOARD to +/- 25 lumens, +/- 50k CCT and +/- .004 Duv — while also separating positive from negative — allows us to match color, hue and intensity throughout a project and provides a consistent color temperature within a 2-step MacAdam ellipse.

RECESSED LINEAR



PENDANT, SURFACE, WALL MOUNT





CLIENT | State Farm, Dallas, TX

ARCHITECT | Corgan Architects

PHOTOGRAPHER | Lawrence Anderson

Products
Made in America **USA**



PRUDENTIAL LTG.

Light creates Life.
Create with Prudential Ltg.

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