

imagine







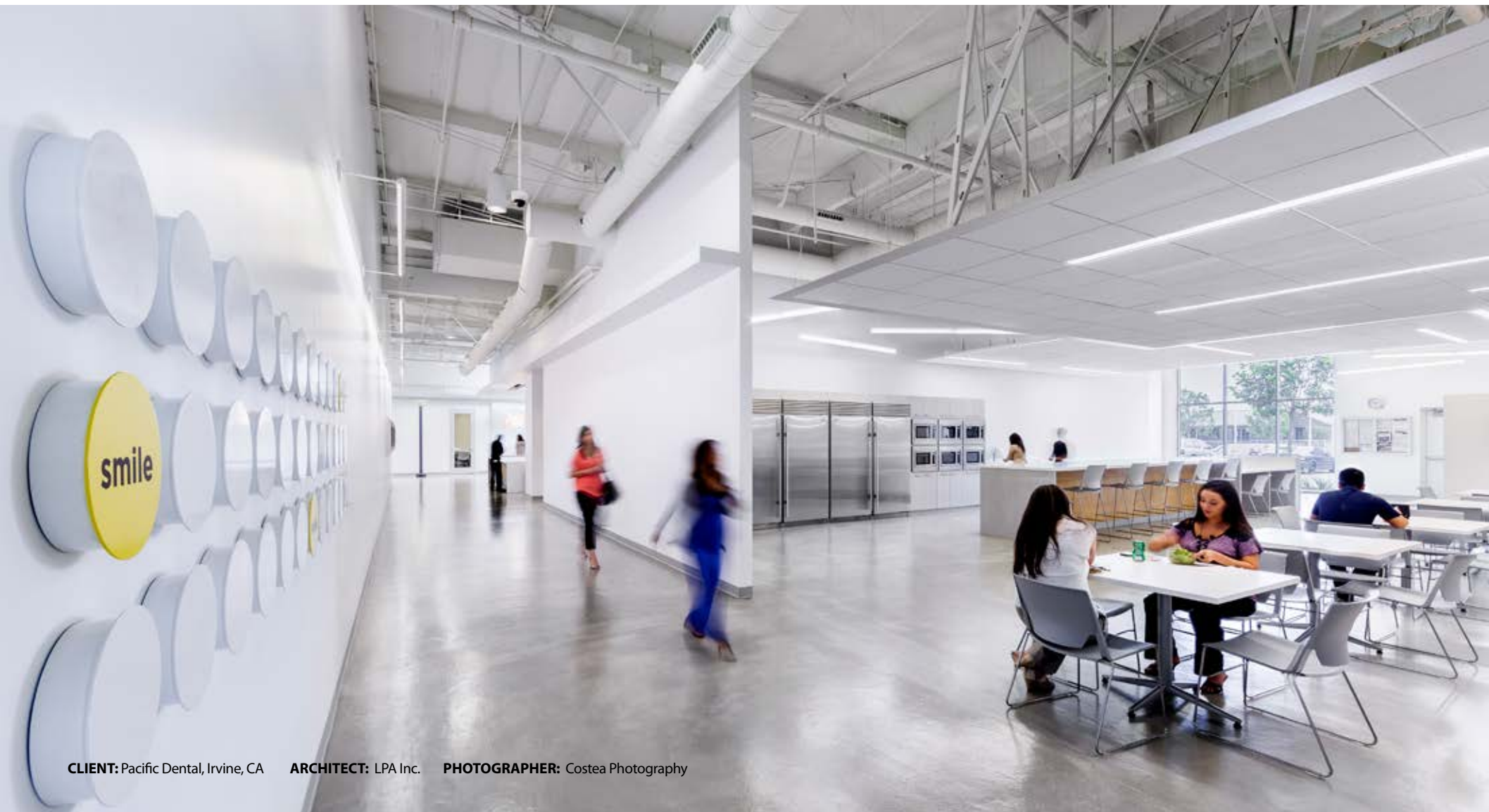
## OPTICS. ONENESS. OPTIONS.

LED linear lighting has always been just that. Functional and essential—a solid workhorse that couldn't promise much in the way of optical control or options. Until now. Energy efficiency, dimming control and easy maintenance (all good things) are still part of the equation, but these days there's far more to the story. Enter the next generation, starring the Bionic and P40 Series by Prudential Lighting. Sleek, minimal lines of light that promise what LED linear has never before been able to deliver.

- 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.







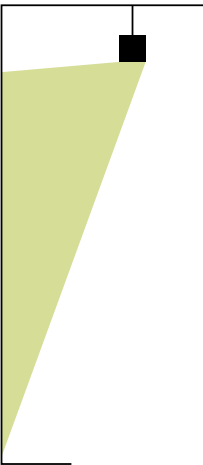
**CLIENT:** Pacific Dental, Irvine, CA    **ARCHITECT:** LPA Inc.    **PHOTOGRAPHER:** Costea Photography

# OPTICS

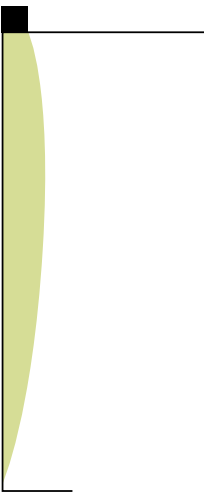
Gone are the days of mechanical kickers or makeshift solves to achieve the desired effect. Our FusionOptics™ gives the Bionic and P40 Series astounding optical control, shaping the light in new and powerful ways—while maintaining high levels of efficacy (up to 100 lm/w).

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.

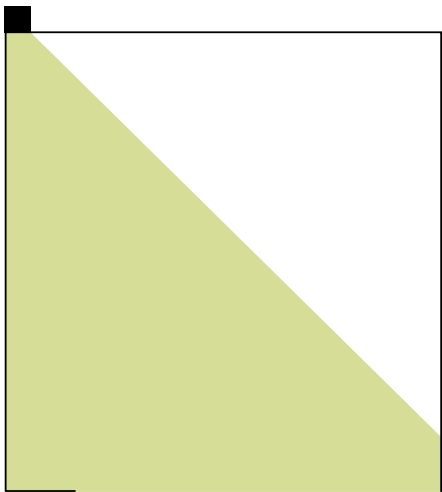
**WALL WASH**



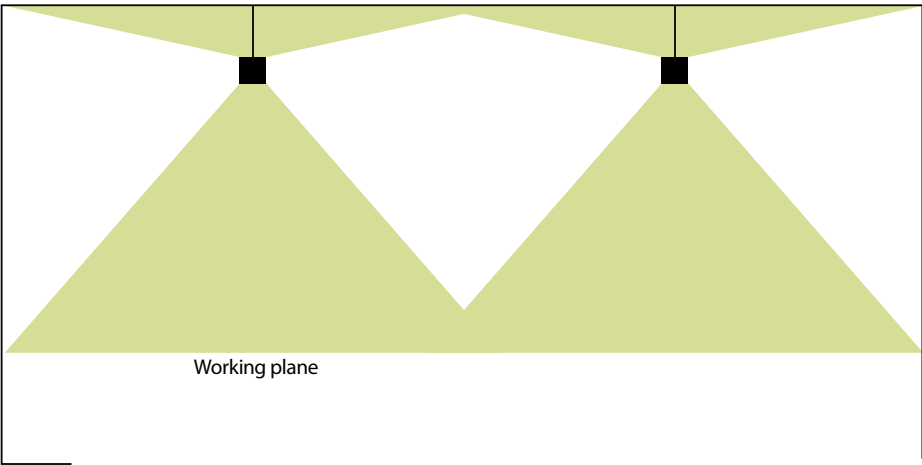
**WALL GRAZE**



**PERIMETER FILL**



**DIRECT: BATWING / INDIRECT: CEILING WASH**





OPTICS

Wall Wash:

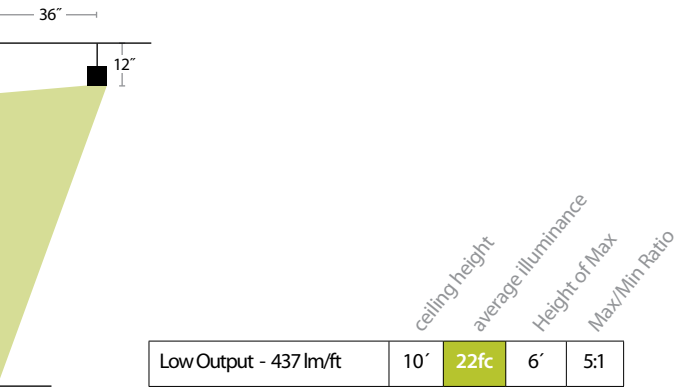
Superior optical performance translates to a smooth and clean gradient of light to wash walls evenly, creating just the right amount of highlight at eye level to subtly pique visual interest.

- 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.

58  
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

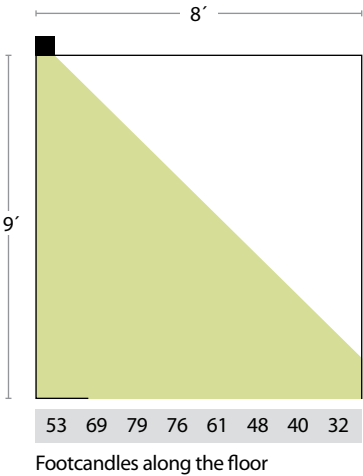
Perimeter Fill:

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

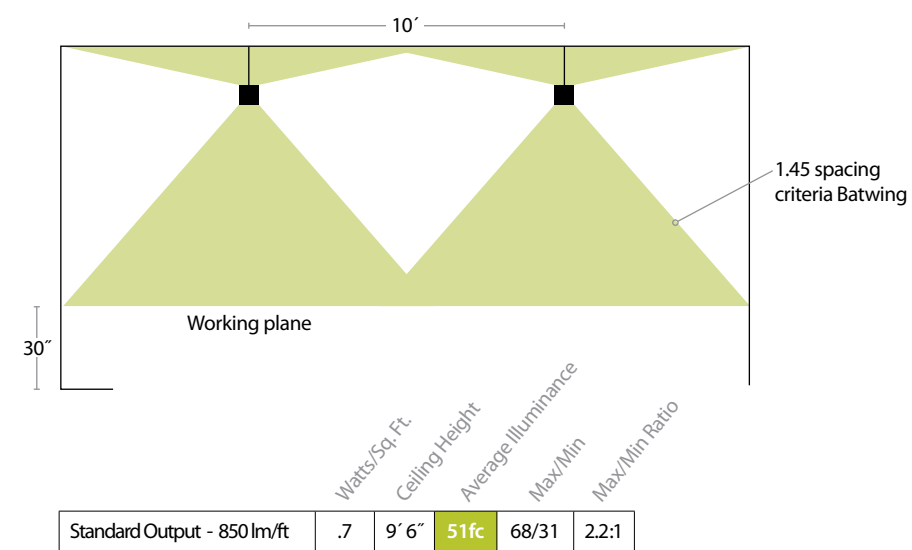
### DIRECT: Batwing / INDIRECT: Ceiling Wash:

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
- **Ceiling Wash:** Extreme low angle batwing creates beautifully uniform ceilings
- Exceedingly efficient at up to 100 lm/w

## 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.



### Footcandles on: CEILING

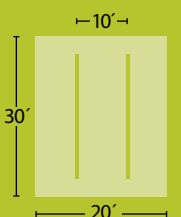
|    |    |    |    |    |    |
|----|----|----|----|----|----|
| 20 | 32 | 20 | 20 | 32 | 20 |
| 35 | 74 | 37 | 37 | 74 | 35 |
| 37 | 77 | 40 | 40 | 77 | 37 |
| 38 | 77 | 40 | 40 | 77 | 38 |
| 38 | 77 | 41 | 41 | 77 | 38 |
| 38 | 77 | 41 | 41 | 77 | 38 |
| 38 | 77 | 40 | 40 | 77 | 38 |
| 37 | 77 | 40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

### Footcandles at: WORKING PLANE

|    |    |    |    |    |    |
|----|----|----|----|----|----|
| 34 | 35 | 34 | 34 | 35 | 34 |
| 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 lead times
- Field-trimmable extension kit
- Budget-friendly

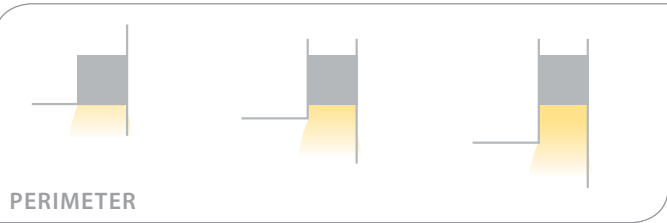
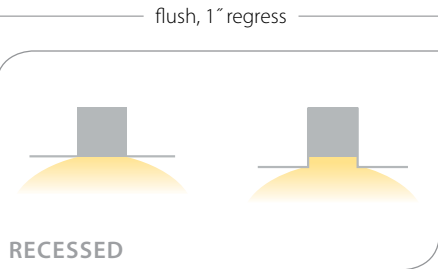
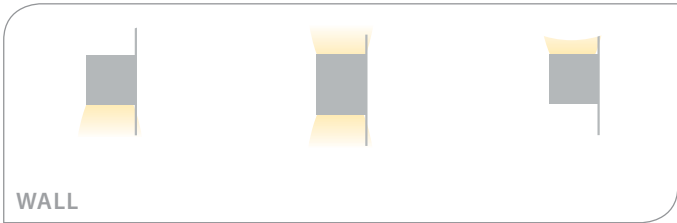
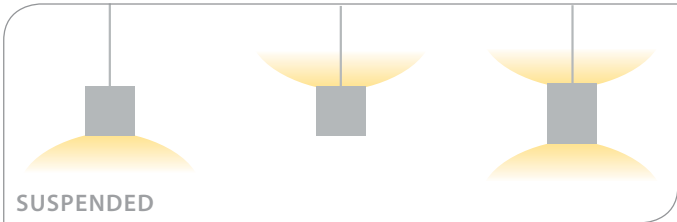
Both:

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

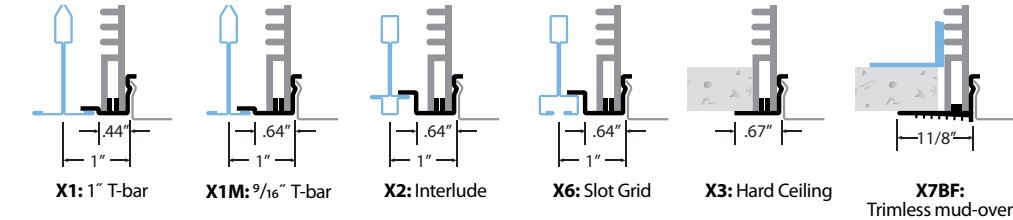


**FOR SIXTY YEARS, PRUDENTIAL LTG.** has excelled at made-to-order manufacturing, intently punching steel, welding aluminum and harnessing the power of LEDs to precise specifications. And we do it all right here in our 100,000 sq. ft. plant minutes outside downtown Los Angeles. If you're in the area,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

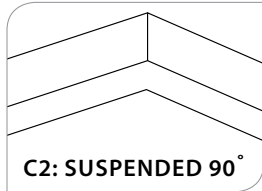
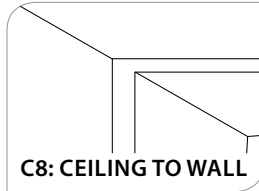
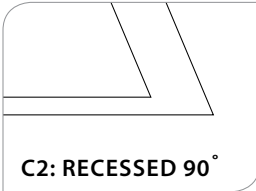
MOUNTING OPTIONS:



RECESSED MOUNTING OPTIONS (BIONIC):



CORNERS:



PREMIUM COLORS:



At Prudential Lighting, we know how inseparable Color is to creating the environment you envision. Choose from one of our 14 Premium Colors with no set-up fee.

For paint chip samples, please e-mail: [sales@prulite.com](mailto:sales@prulite.com)





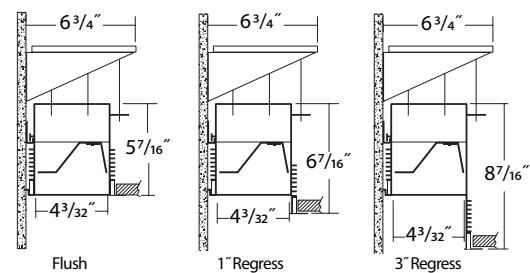
## Bionic Series: **Perimeter**

| SERIES                        | LENS POSITION  | LED COLOR  | OUT-PUT   | NOMINAL LENGTH   | TRIM COLOR   | SHIELD-ING  | DISTRI-BUTION   | MOUNT-ING   | CIRCUIT-ING             | VOLT-AGE           | CEILING SYSTEMS   | CONTROLS  | OPTIONS  |
|-------------------------------|--|--|---|--|--|---|---|---|-------------------------|--------------------|---|---|--|
| BIO-<br>PSTD                  |  |  |   |  |  |   |   |   |                         |                    |   |   |  |
| PSTD<br>Perimeter<br>Standard | FLSH<br>Flush Lens<br><br>REG1<br>1" Regress<br>Lens<br><br>REG3<br>3" Regress<br>Lens | LED27<br>2700K<br><br>LED3<br>3000K<br><br>LED35<br>3500K<br><br>LED4<br>4000K | LO<br>Low<br>5 w/ft<br><br>MO<br>Me-<br>dium<br>7 w/ft<br><br>SO<br>Stan-<br>dard<br>10 w/<br>ft<br><br>HO<br>High<br>12 w/<br>ft | 2'<br>3'<br>4'<br>6'<br>8'<br><br>R____<br>Row<br>Length | TMW<br>Textured<br>Matte<br>White<br>Standard<br><br>YGW<br>Gloss<br>White<br><br>Y____<br>Premium<br>Color<br><br>CC<br>Custom<br>Color | SAL<br>Satin<br>Acrylic<br>lens<br>D1 Only<br><br>D1G<br>Asym-<br>metric Wall<br>Grazer<br>AWW Only<br><br>D1R<br>Asymmet-<br>ric to Room<br>AWL Only<br>N/A REG3<br><br>AWL<br>Acrylic<br>Asym-<br>metric to<br>room<br>D1R Only | D1<br>Direct<br>SAL Only<br><br>D1G<br>Asym-<br>metric Wall<br>Grazer<br>AWW Only<br><br>D1R<br>Asymmet-<br>ric to Room<br>AWL Only<br>N/A REG3 | WTW<br>Wall to<br>Wall<br><br>LP<br>Light<br>Pocket | SC<br>Single<br>Circuit | UNV<br>120-<br>277 | X1<br>1" T-Bar<br><br>X1M<br>9/16"<br>T-bar<br><br>X2<br>Interlude<br>T-bar<br><br>X6<br>Slot Grid<br><br>X3<br>Hard<br>Ceiling<br>Trim<br><br>X7BF<br>Hard<br>Ceiling<br>(Trimless<br>mud-over<br>with backer<br>flange) | ND<br>Non-dimming<br><br>DM10<br>0-10v<br>10% dimming<br>Standard<br><br>DM01<br>0-10v<br>1% dimming<br><br>STEP<br>Step Dimming<br>100-50-Off<br><br>DML<br>1% Lutron<br>Dimming<br><br>DMD<br>0.1% DALI<br>Dimming<br><br>DMG<br>1% DALI<br>Dimming | EML Emergency Battery,<br>Low Output<br><br>EMH Emergency Battery,<br>High Output<br><br>M1 12" MR16 Module<br>(adj.) 1/50w (max) lamp<br><br>M2 12" MR16 Module<br>(adj.) 2/50w (max) lamp<br><br>C2 90° 2-way lit corner<br><br>QC Quick Connect<br>Assemblies<br><br>PROG Programmable<br>light output (specify<br>desired lm/ft or w/ft)<br><br>PRUBIN Meticulous bin-<br>ning and labeling every<br>LED board within a 2-step<br>MacAdams ellipse |

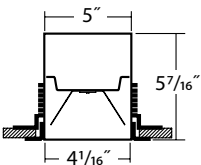
## Bionic Series: Recessed Linear

| SERIES           | LENS POSITION                                      | LED COLOR  | OUTPUT  | NOM LNPTH   | TRIM COLOR   | SHIELDING  | DISTRIBUTION  | CIRCUITING              | VOLT-AGE       | CEILING SYSTEMS   | CONTROLS  | OPTIONS   |
|------------------|--|--|---|---|--|--|---|-------------------------|----------------|---|---|---|
| BIO-STD          |  |  |   |   |  |  |   |                         |                |   |   |   |
| BIO-STD-Standard | FLSH<br>Flush Lens<br><br>REG<br>1" Regressed Lens | LED27<br>2700K<br><br>LED3<br>3000K<br><br>LED35<br>3500K<br><br>LED4<br>4000K | LO<br>Low<br>5 w/ft<br><br>MO<br>Medium<br>7 w/ft<br><br>SO<br>Standard<br>10 w/ft<br><br>HO<br>High<br>12 w/ft | 2'<br>3'<br>4'<br>6'<br>8'<br><br>R____<br>Row Length | TMW<br>Textured<br>Matte<br>White<br>Standard<br><br>YGW<br>Gloss<br>White<br><br>Y____<br>Premium<br>Color<br><br>CC<br>Custom<br>Color | ABW<br>Acrylic<br>Batwing<br>Lens<br>D1X Only<br><br>SAL<br>Satin Acrylic<br>D1 Only<br><br>AWL<br>Acrylic Wall<br>Wash Lens<br>D1W Only<br><br>AWW<br>Acrylic Wall<br>Grazer Lens<br>D1G Only | D1X<br>Symmetric<br>Batwing<br>w/ 1.4 sc<br>ABW lens only<br><br>D1<br>Direct<br>SAL lens only<br><br>D1W<br>Wall Wash<br>AWL lens only<br><br>D1G<br>Wall Grazer<br>AWW Only | SC<br>Single<br>Circuit | UNV<br>120-277 | X1<br>1" T-Bar<br><br>X1M<br>9/16" T-bar<br><br>X2<br>Interlude<br>T-bar<br><br>X6<br>Slot Grid<br><br>X3<br>Hard Ceiling<br>Trim<br><br>X7BF<br>Hard Ceiling<br>(Trimless mud-over with backer flange)<br><br>M<br>Mixed Ceiling | ND<br>Non-dimming<br><br>DM10<br>0-10v<br>10% dimming<br>Standard<br><br>DM01<br>0-10v<br>1% dimming<br><br>STEP<br>Step Dimming<br>100-50-Off<br><br>DML<br>1% Lutron<br>Dimming<br><br>DMD<br>0.1% DALI<br>Dimming<br><br>DMG<br>1% DALI<br>Dimming | EML Emergency Battery, Low<br>EMH Emergency Battery, High<br>M1 12" MR16 module (adj.)<br>1/50w (max) lamp<br>M2 12" MR16 module (adj.)<br>2/50w (max) lamp<br>M4 Cross MR16 module (adj.)<br>1/50w (max) lamp<br>C2 90° 2-way lit corner<br>C3 T-shape 3-way connector<br>C4 90° 4-way mitered connector<br>C8 Wall to Ceiling connector<br>QC Quick Connect<br>PROG<br>PRUBIN |

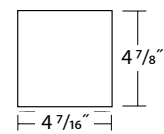
## PERIMETER



## RECESSED LINEAR



PENDANT, SURFACE, WALL MOUNT



Bionic Series: **Pendant, Surface, Wall Mount**

[illegible]

## LUMEN OUTPUT

PERIMETER – WALL GRAZER

UPTO 80 LM/W

|         | LOW | MEDIUM | STANDARD | HIGH |
|---------|-----|--------|----------|------|
| AWW-D1G | 350 | 560    | 800      | 900  |
| lm/ft   |     |        |          |      |
| w/ft    | 4.5 | 7      | 10       | 12   |

## RECESSED LINEAR

|         |       | UP TO 100 LM/W |        |          |      |
|---------|-------|----------------|--------|----------|------|
|         |       | LOW            | MEDIUM | STANDARD | HIGH |
| ABW-D1X | lm/ft | 425            | 665    | 950      | 1080 |
|         | w/ft  | 4.5            | 7      | 10       | 12   |
| SAL-D1  | lm/ft | 390            | 630    | 900      | 1020 |
|         | w/ft  | 4.5            | 7      | 10       | 12   |
| AWL-D1W | lm/ft | 437            | 700    | 1000     | 1140 |
|         | w/ft  | 4.5            | 7      | 10       | 12   |

## PENDANT, SURFACE, WALL MOUNT

UPTO **95** LM/W

|               | LOW | MEDIUM | STANDARD | HIGH |
|---------------|-----|--------|----------|------|
| <b>ABW-CW</b> | 850 | 1300   | 1900     | 2150 |
| lm/ft<br>w/ft | 9   | 14     | 20       | 24   |

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

## 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™

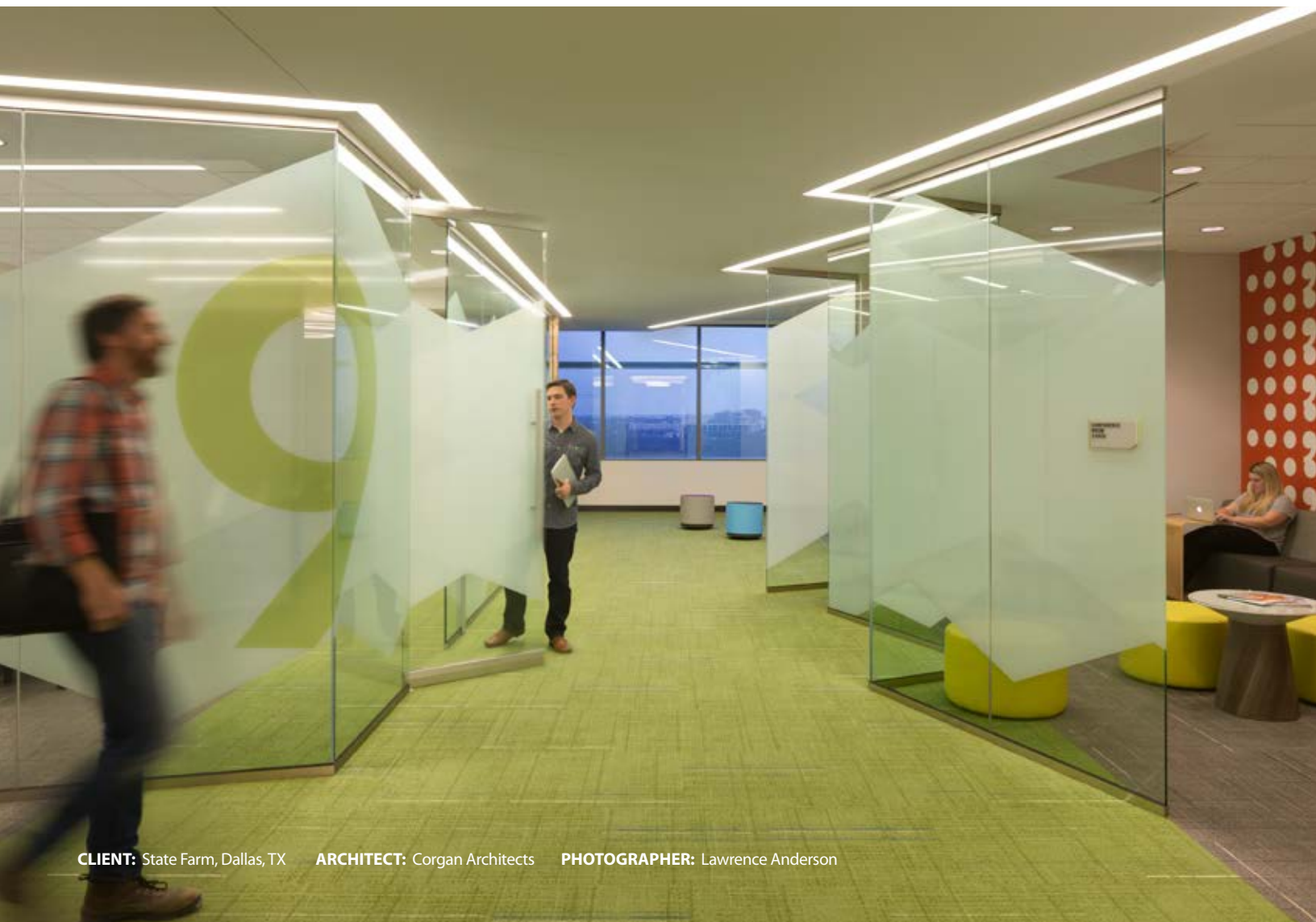
Prudential Ltg's exclusive 'job binning' method that ensures color temperature consistency across all luminaires on a project. Meticulously testing and labeling EVERY LED BOARD to +/- 25 lumens, +/- 50k CCT and +/- .004 Duv — while also separating positive from negative — allows us to match color, hue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

For P40 Series and complete Bionic specifications, please visit:

**www.prulite.com**







**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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