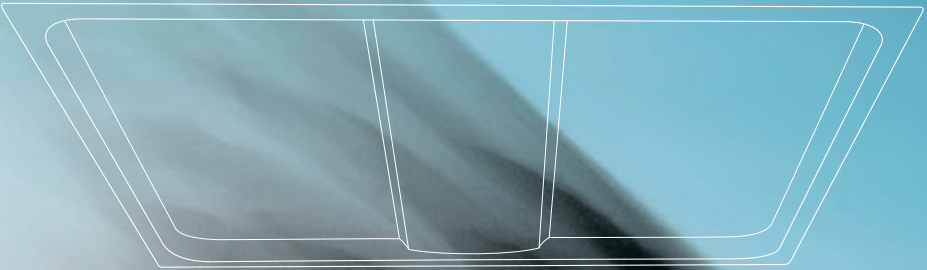


ascend





## RECESSED

# Wing

**Clean lines, reduced energy usage, modest price, with Wing less is more**

- Engineered to meet LEED criteria for greener buildings
- Soft, even illumination with superior spacing criteria
- Streamlined design for a modern-classic look
- Made in America



### WING: 1'x 1'

- 76% efficiency
- 1.4 spacing criteria
- 18w Biax, LED 3.5k & 4k



### WING: 1'x 4'

- 82% efficiency
- 1.4 spacing criteria
- 1, 2 or 3 lamps (T5/HO, T8) LED 3.5k & 4k



### WING: 2'x 2'

- 87% efficiency
- 1.8 spacing criteria
- 1, 2 or 3 lamps (T5/HO, T8), 40w or 50w Biax, LED 3.5k & 4k



### WING: 2'x 4'

- 88% efficiency
- 1.8 spacing criteria
- 1, 2 or 3 lamps (T5/HO, T8) LED 3.5k & 4k







Fusion Optics™ creates a smooth yet distinctive look while forcefully controlling the light

Single-piece lens with Prudential's proprietary frost blend for soft light directly below fixture and sharp cut-off at 65° to avoid glare

Clean and simple single-piece doorframe with contemporary styling

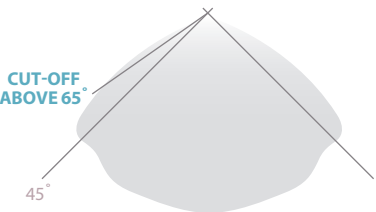
The perfect balance between form and function



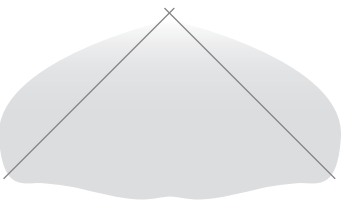


# Efficiency & Control

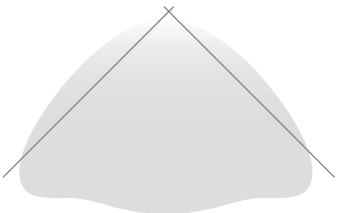
Remarkable in all luminaire sizes and lamp configurations



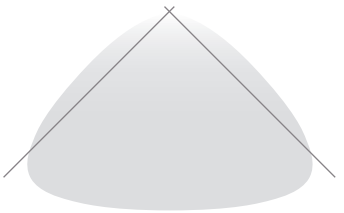
2X2 1T5  
92% efficiency  
1.4 spacing criteria



2X2 2T8  
87% efficiency  
1.8 spacing criteria



2X2 LED4  
65 lm/W – 3200 lumens  
1.7 spacing criteria



1X4 1T5HO  
79% efficiency  
1.7 spacing criteria

**Wing's optical command of light rays** exiting the luminaire delivers wide-angle distribution while limiting undesired light in the glare zone above 65°, creating the perfect balance between wide spacing and visual comfort. The result is a more evenly illuminated workplace, beautifully lit walls and huge energy savings.







#### DAYLIGHT HARVESTING

Prudential's Wing Series can help architects and designers use the design of the building to harvest available daylight for natural illumination of interior spaces. RightLight™ cutting-edge sensor technologies accurately measure light levels and adjust the operation of the Prudential luminaires to maximize efficiency.

Spread your Wings – 12' spacing for cleaner ceilings

# With Wing... Less is More

Fewer fixtures for a lower install cost, reduced energy usage

PRUDENTIAL LTG.  
Wing Distribution

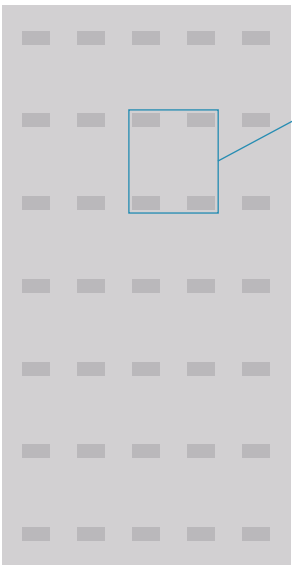


LEADING COMPETITOR  
Volumetric Distribution



## OPEN OFFICE

- 8'x12' spacing reduces fixtures needed by almost 25% (vs 8'x 8')
- Even illumination at working plane
- Cut-off of light above 65° limits glare on glossy screens



47	49	44	42	44	49	47
46	48	44	42	44	48	46
45	46	43	42	43	46	45
44	45	44	44	44	45	44
46	46	46	45	46	46	46
44	45	44	44	44	45	44
45	46	43	42	43	46	45
46	48	44	42	44	48	46
47	49	44	42	44	49	47

WING 2' x 4' Open Office

Light Source	2T5	Light Level	44 fc avg
Room Size	44'L x 80'W x 9'H	Energy Density	0.69 W/ft²
Spacing	8' x 12' o.c.	Max/Min	49/40
Efficiency	88%	Uniformity Ratio	1.22:1

48	50	44	42	44	50	48
46	48	44	42	44	48	46
45	46	43	42	43	46	45
37	38	36	36	36	38	37
35	36	35	34	35	36	35
37	38	36	36	36	38	37
45	46	43	42	43	46	45
46	48	44	42	44	48	46
48	50	44	42	44	50	48

LEADING COMPETITOR 2' x 4' Open Office

Light Source	2T5	Light Level	38 fc avg
Room Size	44'L x 80'W x 9'H	Energy Density	0.69 W/ft²
Spacing	8' x 12' o.c.	Max/Min	50/27
Efficiency	87%	Uniformity Ratio	1.85:1

## ROOM ENVIRONMENTS

Wing 1' x 4' Board Room

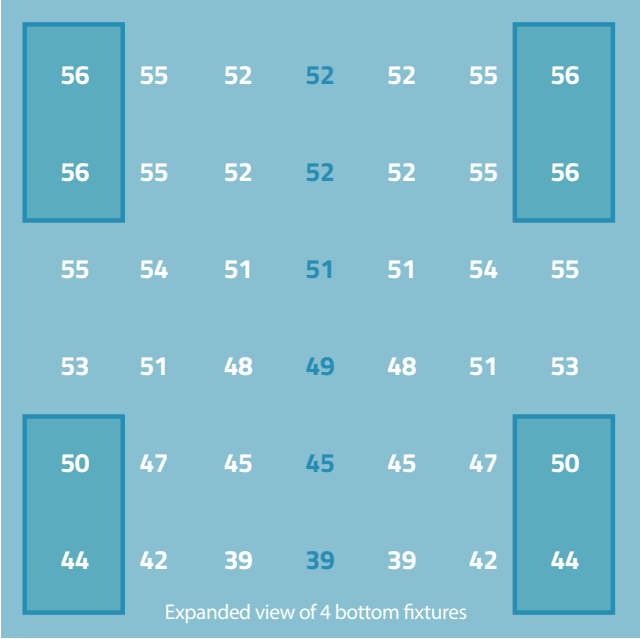
Light Source	2T5
Light Level	40 fc avg
Room Size	36'L x 18'W x 9'H
Spacing	6' x 10' o.c.
Max/Min	51/31
Uniformity Ratio	1.6:1
Energy Density	.74 W/ft²
Efficiency	82%
Spacing Criteria	1.4

Wing 1' x 1' Corridor (see back cover)

Light Source	1BX18W
Light Level	15 fc avg
Room Size	20'L x 6'W x 9'H
Spacing	6' x 6' o.c.
Max/Min	18/11
Uniformity Ratio	1.6:1
Energy Density	.49 W/ft²
Efficiency	76%
Spacing Criteria	1.4

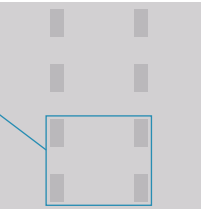






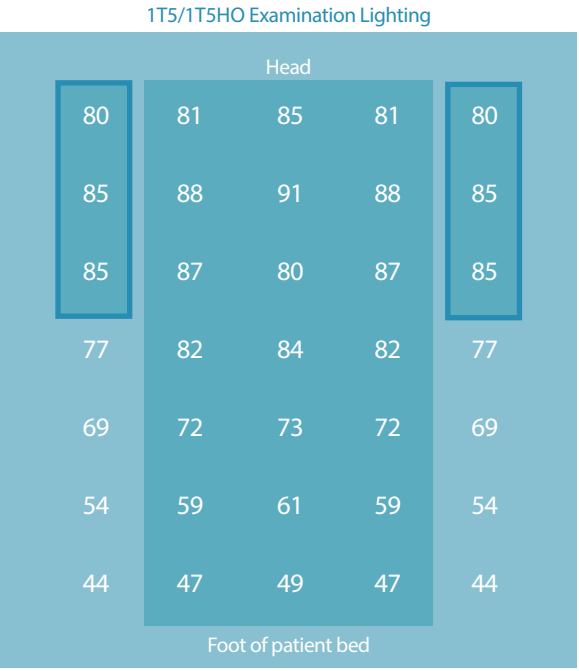
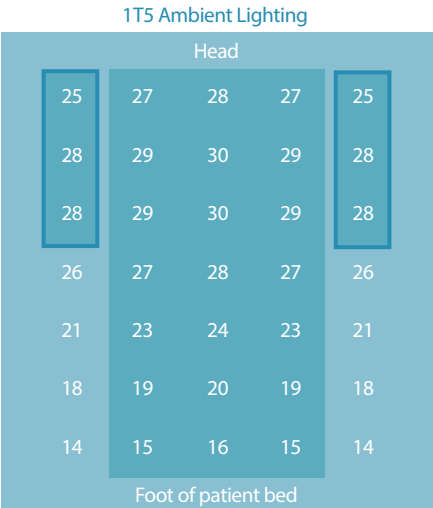
CLASSROOM

- Eight luminaires properly light a 30’ x 30’ classroom instead of the typical twelve
- One-third fewer fixtures for huge installation and energy savings
- Even illumination at working plane for all students
- Cut-off of light above 65° limits glare on glossy screens



Wing 2’ x 4’ Classroom

Light Source	2T5	Light Level	45 fc avg
Room Size	30’L x 30’W x 9’H	Energy Density	.55 W/ft²
Spacing	8’ x 12’ o.c.	Max/Min	56/39
Efficiency	88%	Uniformity Ratio	1.44:1



PATIENT ROOM

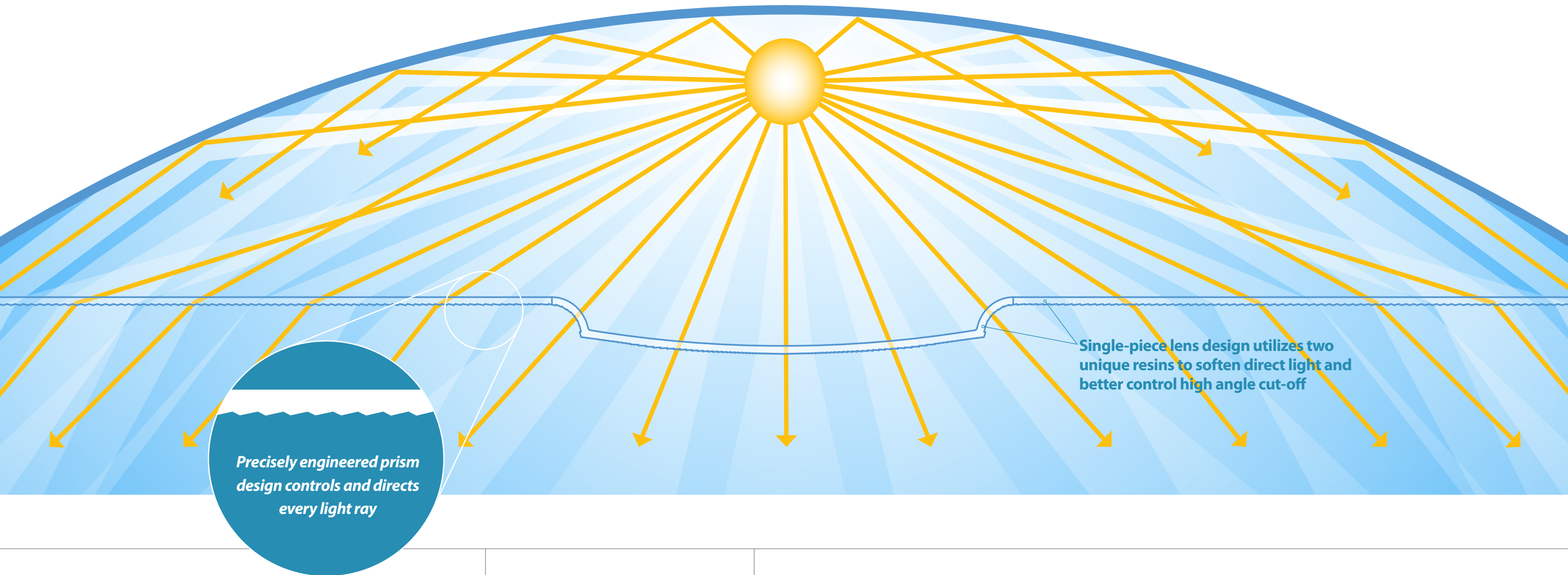
- Dual circuit 1T5/1T5HO for ambient and examination light levels
- Single-piece gasketed doorframe
- Antimicrobial paint option
- Matching 1x1 Wing perfect as a downlight replacement

Wing 1’ x 4’ Patient Room – AMBIENT

Light Source	1T5/1T5HO DC
Room Size	12’L x 10’W x 9’H
Spacing	3’ o.c.
Efficiency	82%

EXAM

Light Level	24 fc avg	Light Level	72 fc avg
Max/Min	30/14	Max/Min	91/44
Uniformity Ratio	2.1:1	Uniformity Ratio	2.1:1



Visit [prulite.com](http://prulite.com) to see how FusionOptics empowers our 4" recessed linear 'Bionic' to never-before-seen performance



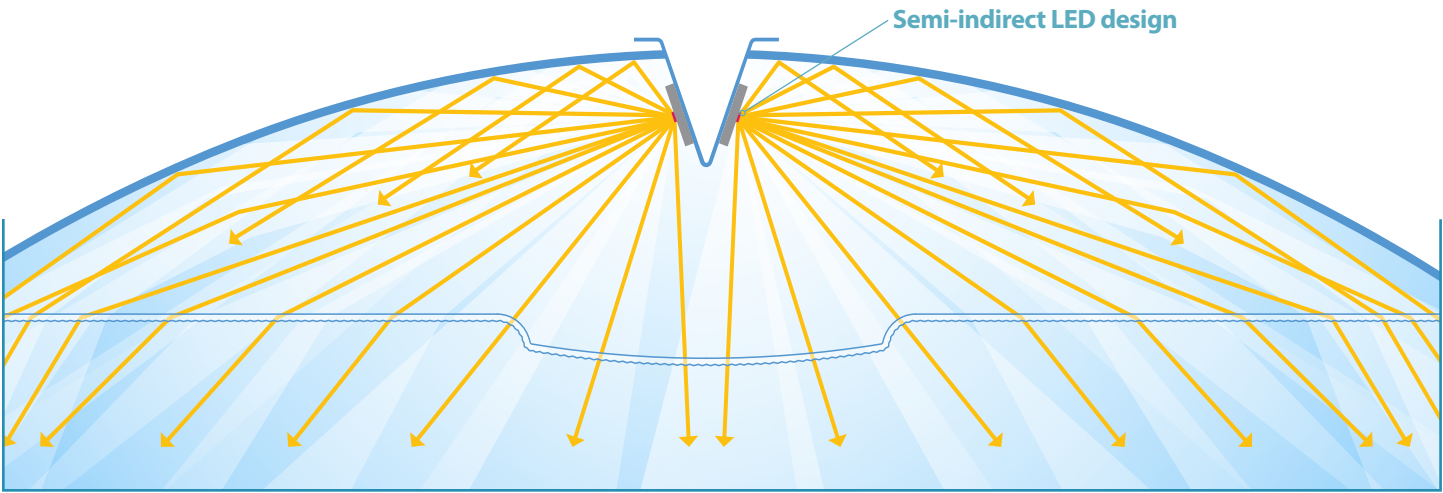
**FUSIONOPTICS™ IS** a patent-pending innovation wherein every luminaire is individually designed to optimize lighting control. Rather than a one-size-fits-all solution, FusionOptics is a product and task-specific technology. Refractive lens and reflector system work in harmony providing more control than ever before.

*Every ray from the lamp, every bounce from the reflector and every prism in the lens* have been meticulously integrated to achieve a remarkable combination of efficient and controlled light. Wing therefore delivers soft, even illumination, free of glare, striations or color shifts, for excellent visual comfort from every fixture size and lamp configuration.

Designed in association with  
Robb Allen/Clear Stream Studio







# Wing LED's — Long Life Meets Performance

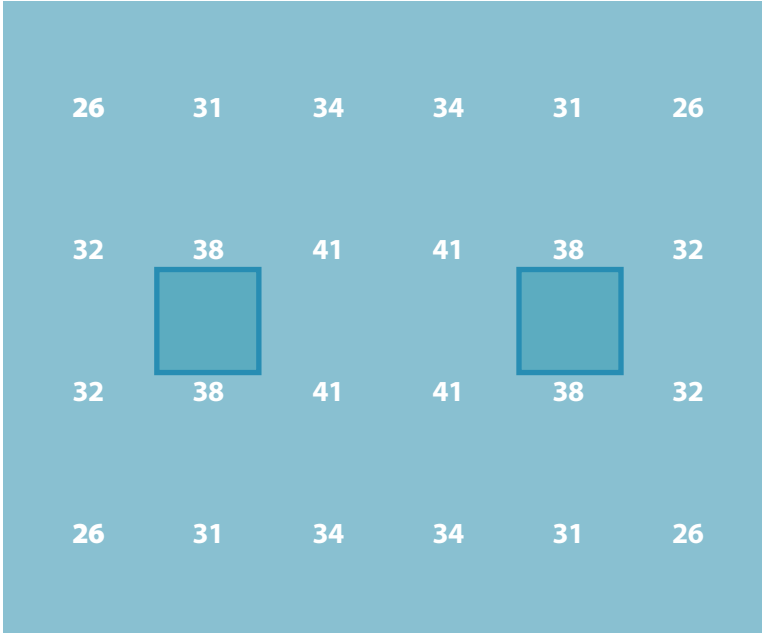
A semi-indirect design for optimal visual comfort

PRUDENTIAL LED LIGHT ENGINES are designed to maximize light output with minimal energy usage.

*Our semi-indirect design pushes light out wide and softens light directly below creating a visually comfortable luminaire.*

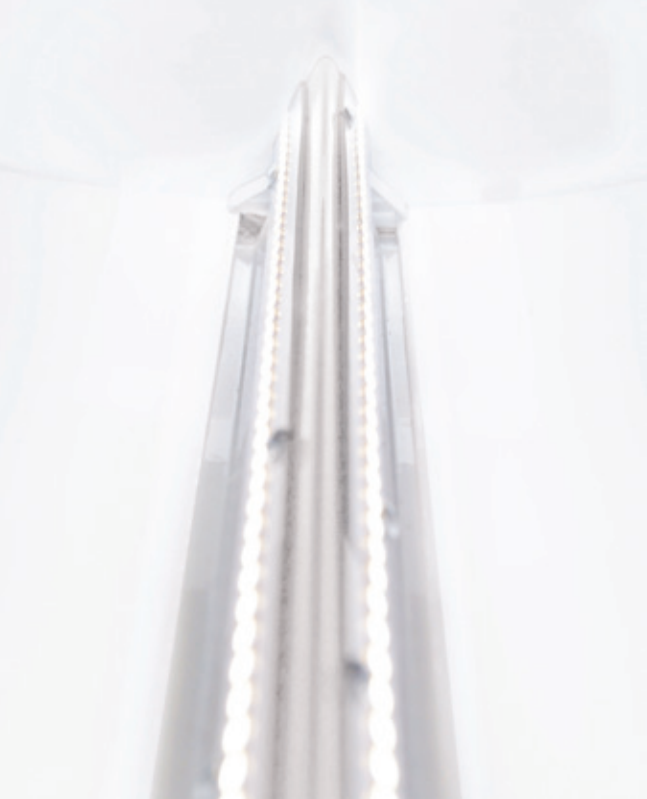
Wing LED's are available with 3000k, 3500K and 4000K color temperatures targeted precisely on the Black Body Locus for natural white light. Due to on-board thermal management, supplemental heat sinks are not necessary.

Prudential's LED boards are designed in 1' increments for easy, 'future-proof' replacement. With a 5 year warranty, an expected life of 50,000 hours and our 55+ year legacy of dependability, Prudential Ltg. has built a foundation you can trust.



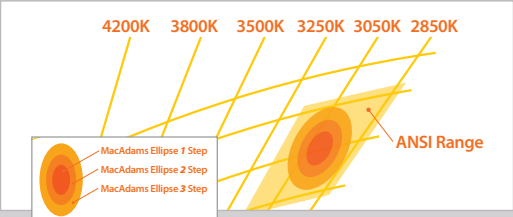
## WING 2' x 2' Small Office

Light Source	LED 4000K	Light Level	35 fc avg
Room Size	12'L x 10'W x 9'H	Energy Density	.83 W/ft²
Spacing	8' o.c.	Input Watts	49.5
System Efficacy	65 lm/W	Max/Min	41/26
Delivered Lumens	3197	Uniformity Ratio	1.58:1

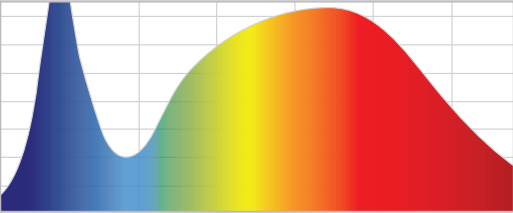


A well-designed luminaire doesn't just push out a lot of light, it controls where the light is distributed for soft, even illumination at the working plane. Wing's semi-indirect LED design provides remarkably even light, free of glare, hot spots or striations.

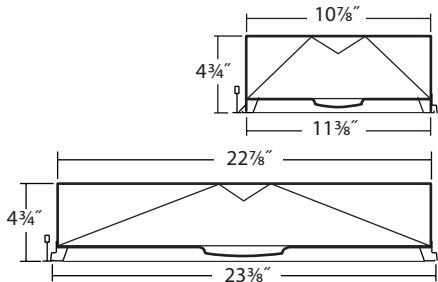
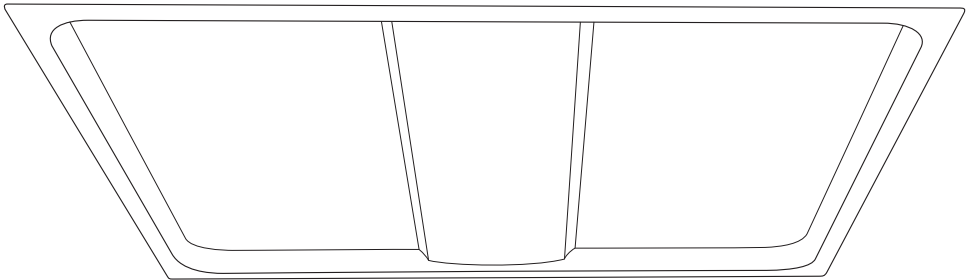
## JOB BINNING



Prudential meticulously tests and labels EVERY Wing LED board for incredibly tight "Job Binning" for accurate color match (within 99k), hue and intensity within 50 lumens.



With CRI of 80+, Prudential LED's have been optimized for consistent color appearance and rendering.



SERIES	LED COLOR	OUTPUT	SHIELD-ING	FRAME COLOR	CIRCU-ITING	VOLTAGE	CEILING SYSTEMS	DRIVERS	OPTIONS & CONTROLS
Wing 11 1' x 1'	LED27 2700K	LO Low	ABW Acrylic Batwing	TMW Textured Matte White (Standard)	SC Single Circuit	347 UNV (120-277)	X1 T-Bar 15/16" Exposed	ND Non-Dimming, DM10 0-10v, 10% Dimming (Standard)	EML Emergency Battery, Low (Wing 14~ 750 delivered lumens, Wing 22, 24 ~ 900)
Wing 14 1' x 4'	LED3 3000K	MO Medium					X1M T-Bar 9/16" Exposed	DM01 0-10v, 1% Dimming	EMH Emergency Battery, High (Wing 14~ 1050 delivered lumens, Wing 22, 24 ~ 1250)
Wing 22 2' x 2'	LED35 3500K	SO Standard		YGW Gloss White (Standard)			X2 Dimensional T-Bar Armstrong Interlude™	STEP Step Dimming, 100-50-Off, Osram	FH Fixture Fusing (Slow blow)
Wing 24 2' x 4'	LED4 4000K	HO High					X3B Hard Ceiling (Flange Trim)	NOTE: Lumens and watts per foot may differ for STEP drivers, consult factory	AM Antimicrobial Paint
		PROG Program- mable Light Output (Specify desired lumens or watts per fixture)		Y____ Premium Color			X6 Slot Grid	LDE5 5%, Lutron (Ecosystem)	CP Chicago Plenum
				CC Custom Color			Note: Ceiling systems are not interchangeable in the field other than X1-X1M and X2-X6	LDE1 1%, Lutron (Soft Fade to Black, Ecosystem)	DLH RightLight™ Daylight Harvesting System
								L3DA 1%, Lutron, 3 Wire	MR Master Remote with 11' Whip
								ECO 1% 0-10v, EldoLED	PAF Painted After Fabrication
								ECDA 1% DALI, EldoLED	PRUBIN Meticulous Binning and Labeling every LED Board within a 2-Step MacAdams Ellipse
								SOLO 0.1% 0-10v, EldoLED (Dim to Dark)	
								SODA 0.1% DALI, EldoLED (Dim to Dark)	

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 fixture.

BINNING

Standard binning (all Prudential LED boards) includes testing at the chip level and board integration to provide consistent color temperature within a 3-step MacAdams ellipse. +/- 100 lumens, +/- 100k CCT and +/- .004 Duv

PRUBIN™ (optional)

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 MacAdams ellipse.

LABELS

ETL damp labeled and I.B.E.W. manufactured

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. Max driver size 1.65" w x 1.25" h.

CONSTRUCTION

Housing

Die-formed 22-gauge steel, >20% PC recycled, 100% recyclable

End Caps

Spring-fastened aluminum, >25% PC recycled, 100% recyclable

Lens

Dual-frosted, single extruded lens with FusionOptics™ for superior light control and energy efficiency.

MOUNTING

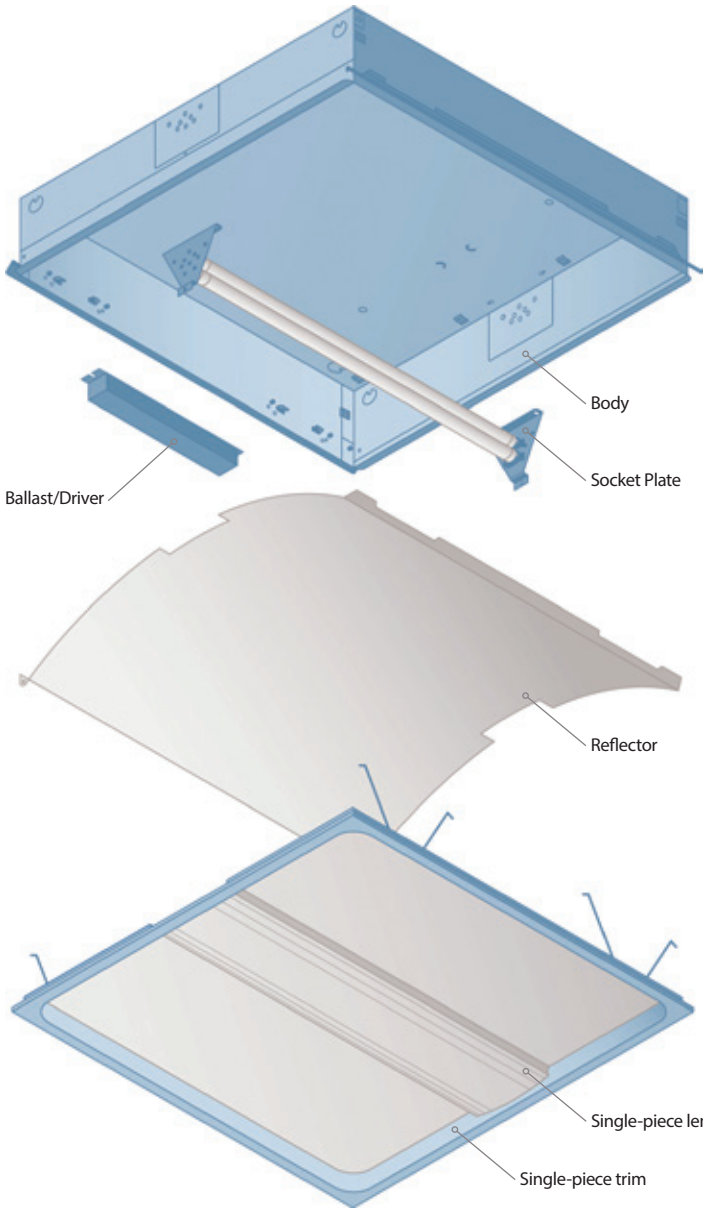
Recess-mounted into exposed or concealed T-bar or drywall ceiling.

WEIGHT

2 lbs/ft

WARRANTY

Single-source, 5 year limited warranty covers standard components and construction



INSTALLATION

Simple lamp and ballast/driver replacement



STEP 1: Pull center basket



STEP 2: Pinch compression springs and swing "frame assembly" down

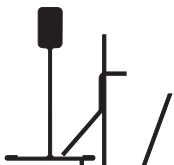


STEP 3 (FLUORESCENT): Squeeze reflector and swing down for ballast access

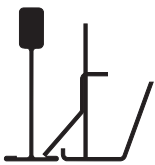


STEP 3 (LED): For driver access, push reflector up and pinch tab to swing reflector down

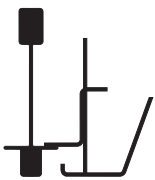
CEILING SYSTEMS



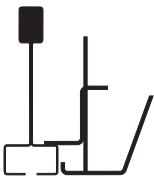
X1 T-bar 15/16"



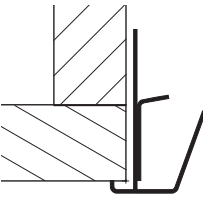
X1M T-bar 9/16"



X2 Interlude



X6 Slot Grid



X3B Hard Ceiling







Wing's 1'x1' is ideal for corridors and other traditional downlight applications

Products  
Made in America **USA**★



**PRUDENTIAL LTG.**

Light creates Life.  
Create with Prudential Ltg.

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