

**lumenfacade™** inground

lumenfacade™

Lumenfacade™ Inground, Asymmetric Wallwash





**Continous lines of light**  
End-to-end installation

**Minimalist design**  
No exposed screws

# Breaking New Ground

Introducing the Lumenfacade Inground, a groundbreaking approach to inground lighting. Designed around LED technology, the Lumenfacade Inground solves the challenges of ground-recessed lighting, while still delivering LED flexibility, performance and durability.

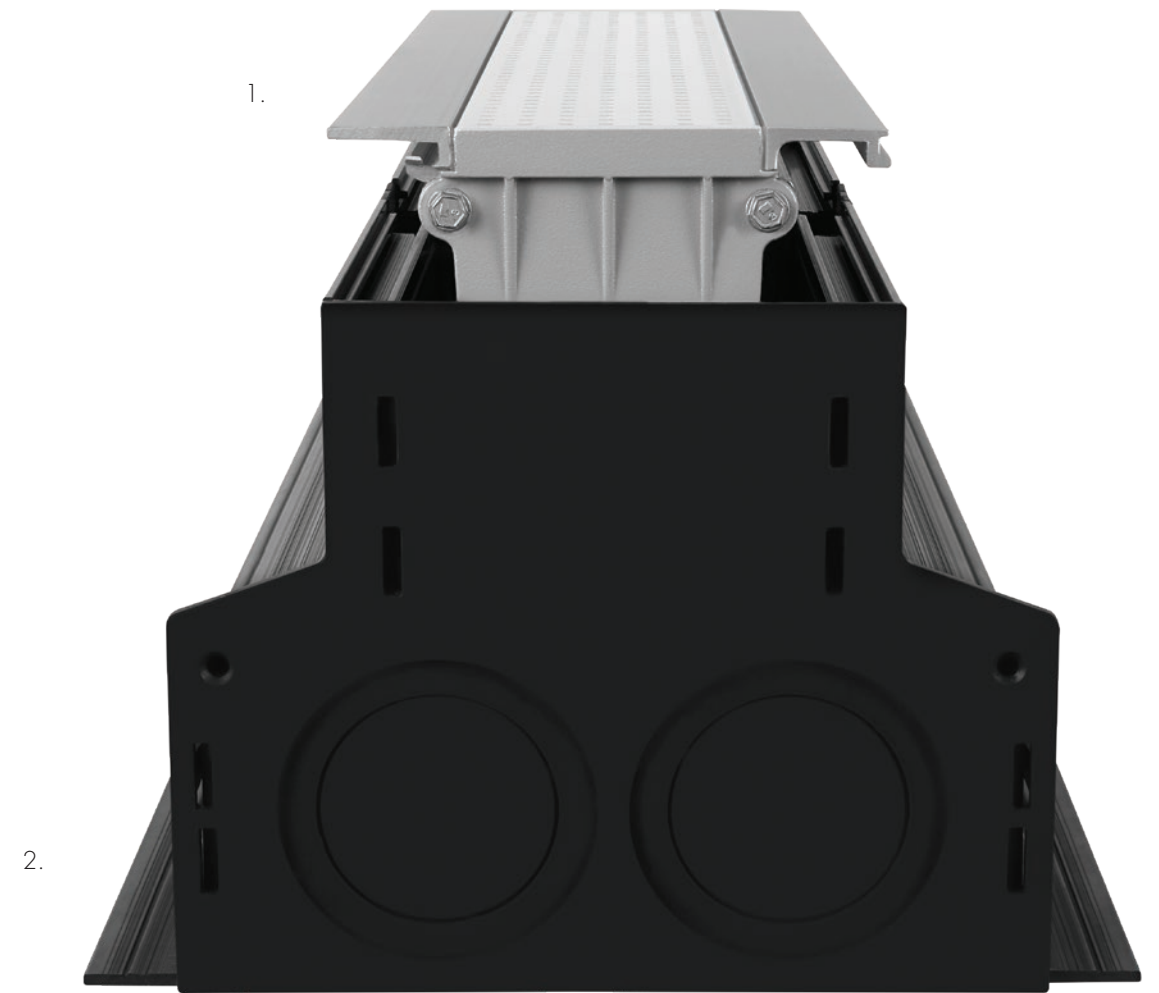
**It's time to bury the past.**



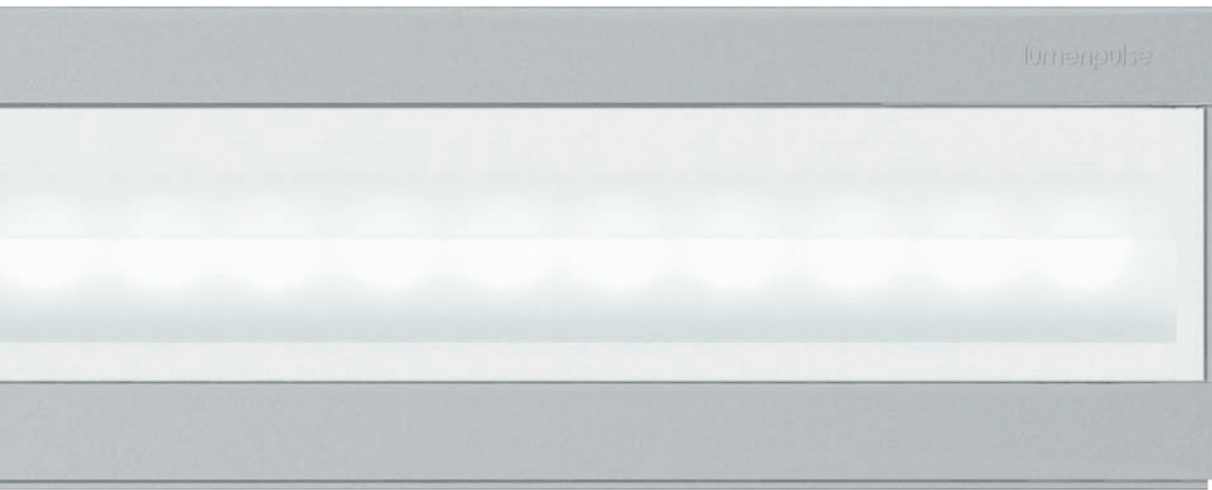


Lumenfacade™ Inground,  
2', 2700K, 10° x 60°

# The System



1. Optical chamber  
2. Installation blackout

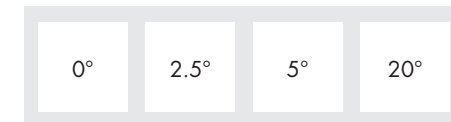
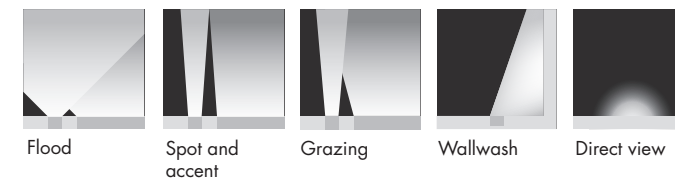
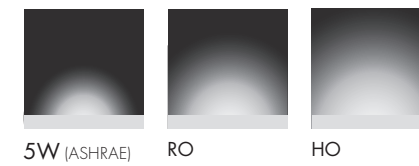


# Versatility

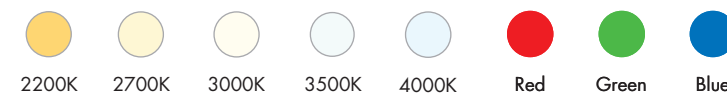
The Lumenfacade Inground brings Lumenpulse's versatile approach to inground lighting, offering an unprecedented array of options for a ground-recessed lighting solution. Easily configurable, the luminaire gives designers a full toolbox of features and choices, allowing them to tailor it to fit their projects.

## lumenfacade™ inground

- 1ft (305mm)\*
- 2ft (610mm)\*
- 3ft (914mm)\*
- 4ft (1219mm)\*



Optical tilt options\*\*



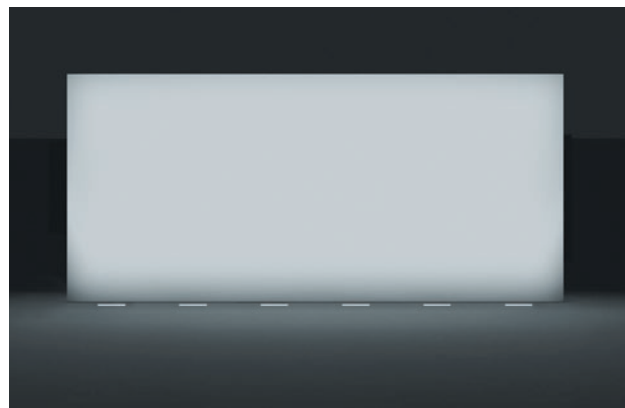
\* Nominal lengths  
 \*\* Optical tilt options are factory-set and cannot be adjusted in the field. Not available for asymmetric wallwash or direct view optics.



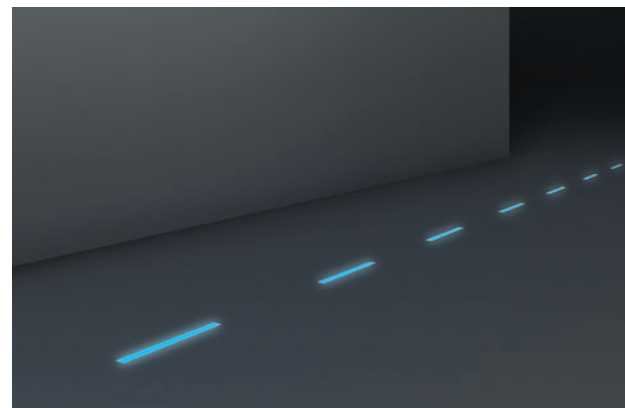
# Optical Flexibility

The Lumenfacade Inground provides a choice of fourteen different beam distributions, including a true asymmetric wallwash for smooth, uniform wall illumination; grazing optics for dramatic uplighting; wide optics for archway and canopy floodlighting; and diffuse, direct view optics for orientation and wayfinding applications.

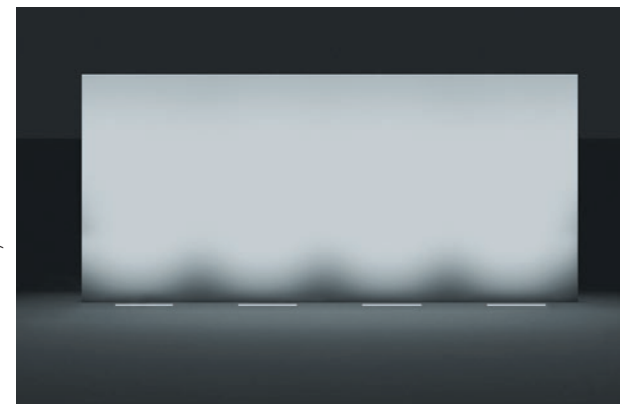
Asymmetric Wallwash



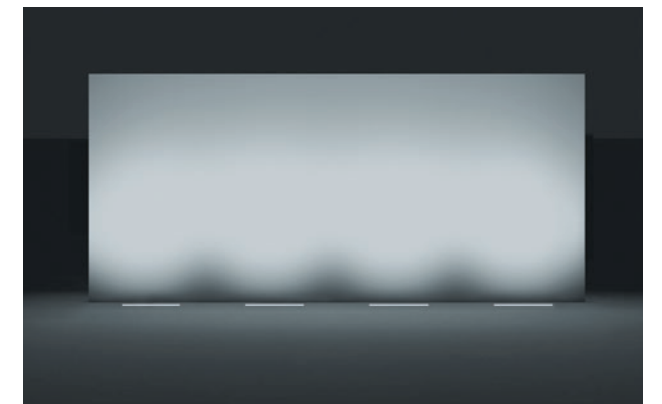
Direct View



Grazing

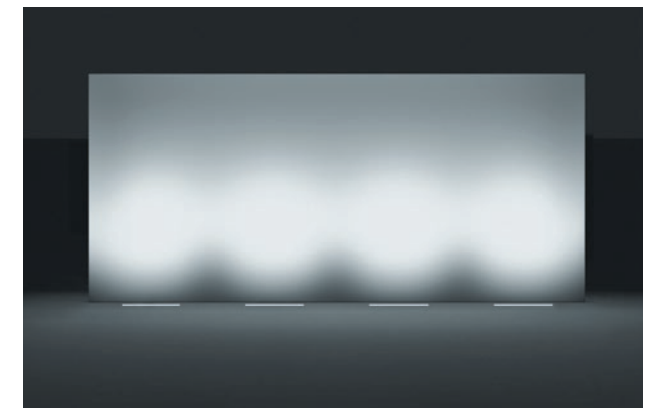
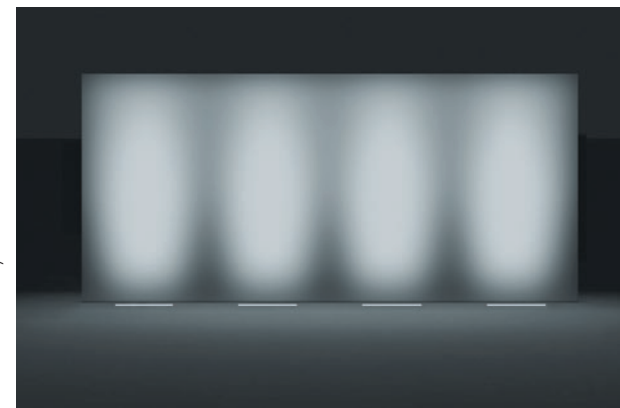


Flood



Bi-symmetrical

Symmetrical





# Asymmetric Wallwash

The Lumenfacade Inground benefits from a true asymmetric distribution, allowing the luminaire to achieve high average illuminance (up to 12 fc or 128 lux) with excellent uniformity (up to 3.2 : 1 max./min.), along with best-in-class spacing and setback requirements (see overleaf).

## Benefits

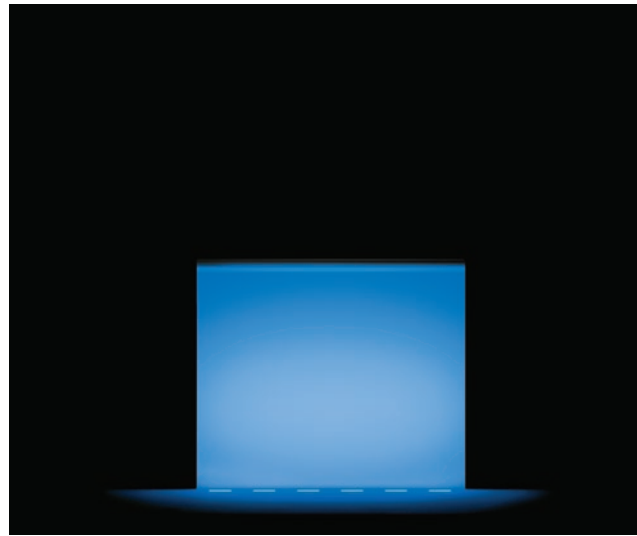
- Exceptional uniformity
- High illuminance
- Best-in-class spacing



# Asymmetric Wallwash

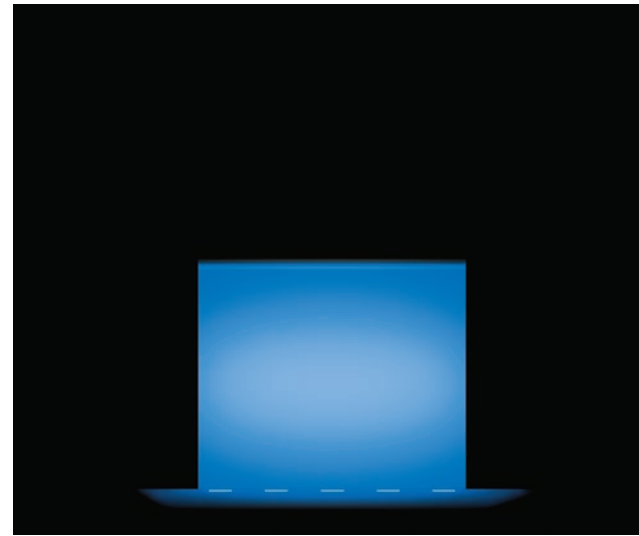
## Spacing & Setback

**20' wall, 2' setback**  
 (6m high wall, 0.6m setback)



**2ft spacing**

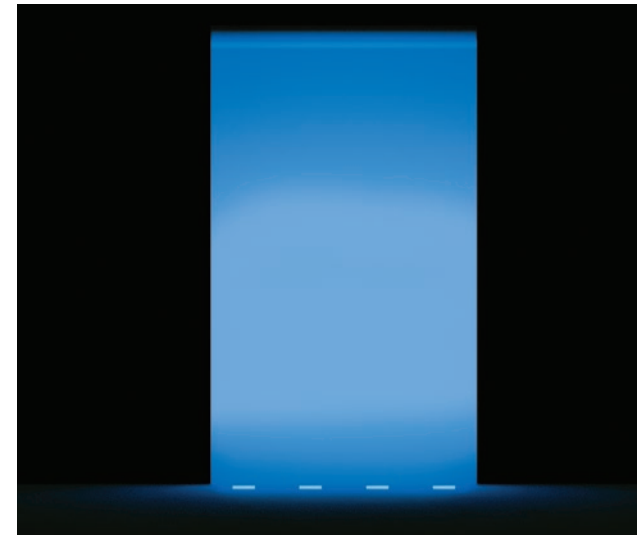
Avg. illuminance: 12 fc (128 lux)  
 Uniformity [max./min.]: 3.2 : 1



**3ft spacing**

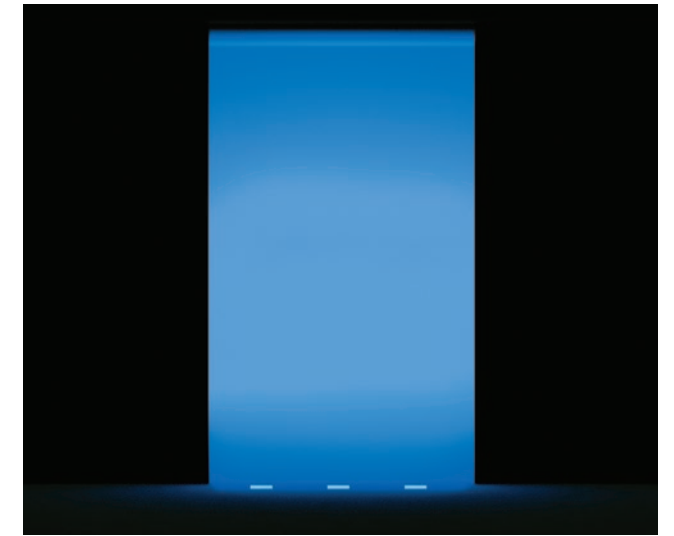
Avg. illuminance: 9.8 fc (105 lux)  
 Uniformity [max./min.]: 3.3 : 1

**40' wall, 4' setback**  
 (12m high wall, 1.2m setback)



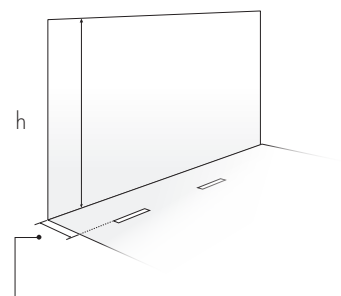
**4ft spacing**

Avg. illuminance: 3.1 fc (33 lux)  
 Uniformity [max./min.]: 4.5 : 1

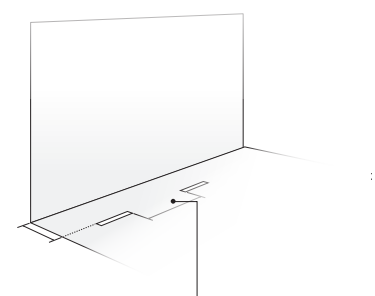


**5ft spacing**

Avg. illuminance: 2.4 fc (26 lux)  
 Uniformity [max./min.]: 4.5 : 1



**Setback:** Recommended setback from the wall is 1/10 of the wall height.



**Spacing:** Appropriate spacing between luminaires (end-to-end) may be up to 2 times setback distance.

Computerized photometric calculations are recommended to validate illuminance and uniformity.



# Grazing

The Lumenfacade Inground builds on the reputation of the Lumenfacade family of luminaires, offering best-in-class grazing capabilities. The luminaire gives designers the tools to accentuate rough textured surfaces, cornices, heritage brick and protruding details up to 100' [30m] high.

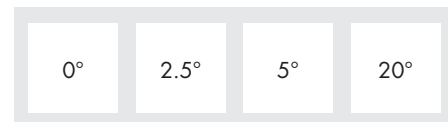
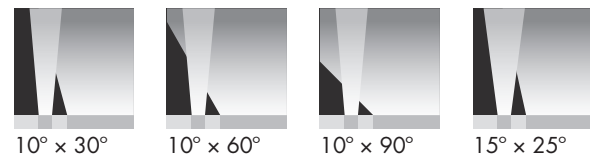




# Grazing Guide

For superior grazing flexibility the Lumenfacade Inground is available with four factory-set optical tilt options and three outputs, allowing it to scale from 20' to 100' (6 m to 30 m).

## Optics



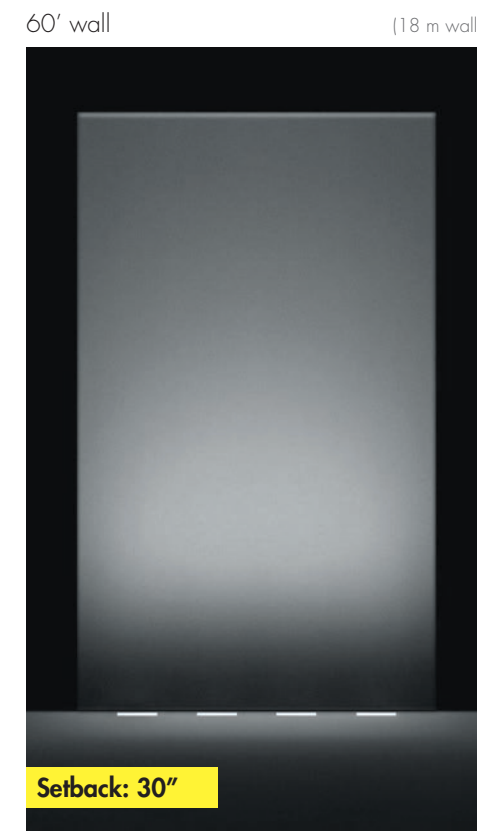
Optical tilt options are factory-set and cannot be adjusted in the field.



Tilt: 2.5°  
(Setback: 254 mm)



Tilt: 2.5°  
(Setback: 508 mm)



Tilt: 2.5°  
(Setback: 762 mm)



Tilt: 2.5°  
(Setback: 1016 mm)



Tilt: 2.5°  
(Setback: 1270 mm)

## Design tip!

Use the following formula to determine optimum setback when using either 2.5°, 5° or 20° tilts.

$$\text{Setback} = \frac{\text{Wall Height}}{\tan(90 - \text{Tilt Angle})}$$





## Direct View

Available in various lengths, color temperatures and colors (with evenly distributed color mixing), the Lumenfacade Inground gives architects and lighting designers a family of direct view linear markers for parks, plazas, entrance ways and public spaces of all shapes, sizes and locations.





**Anti-slip lens**

The Lumenfacade Inground offers an anti-slip lens as an option. Consult factory for more details.





**59,238 cd\***

## Performance

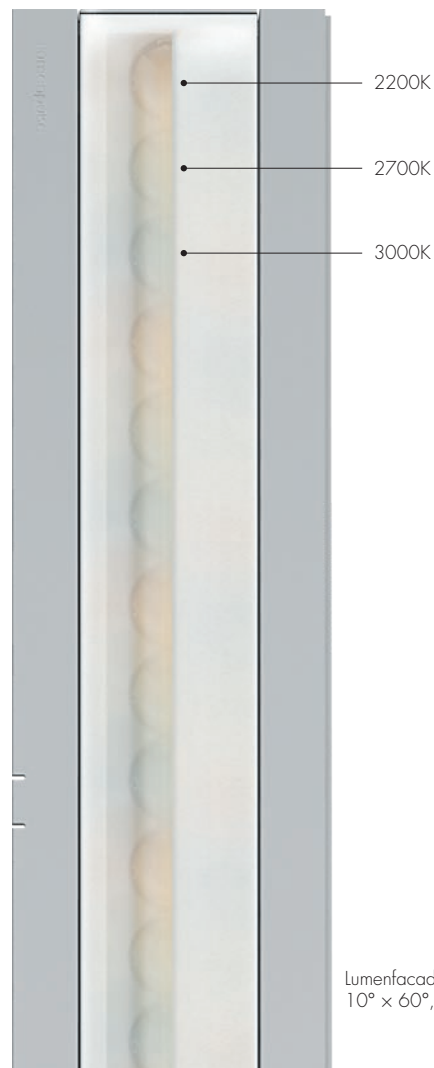
The Lumenfacade Inground continues the tradition of the Lumenfacade family, providing best-in-class photometric performance. The luminaire delivers 59,238 peak candelas for illumination up to 100 feet (minimum 1 fc (10.7 lx) at 243 feet (74 m)).

\* Estimated. Lumenfacade Inground HO, 4', 4000K, 8° x 8°.



# Dynamic Warm

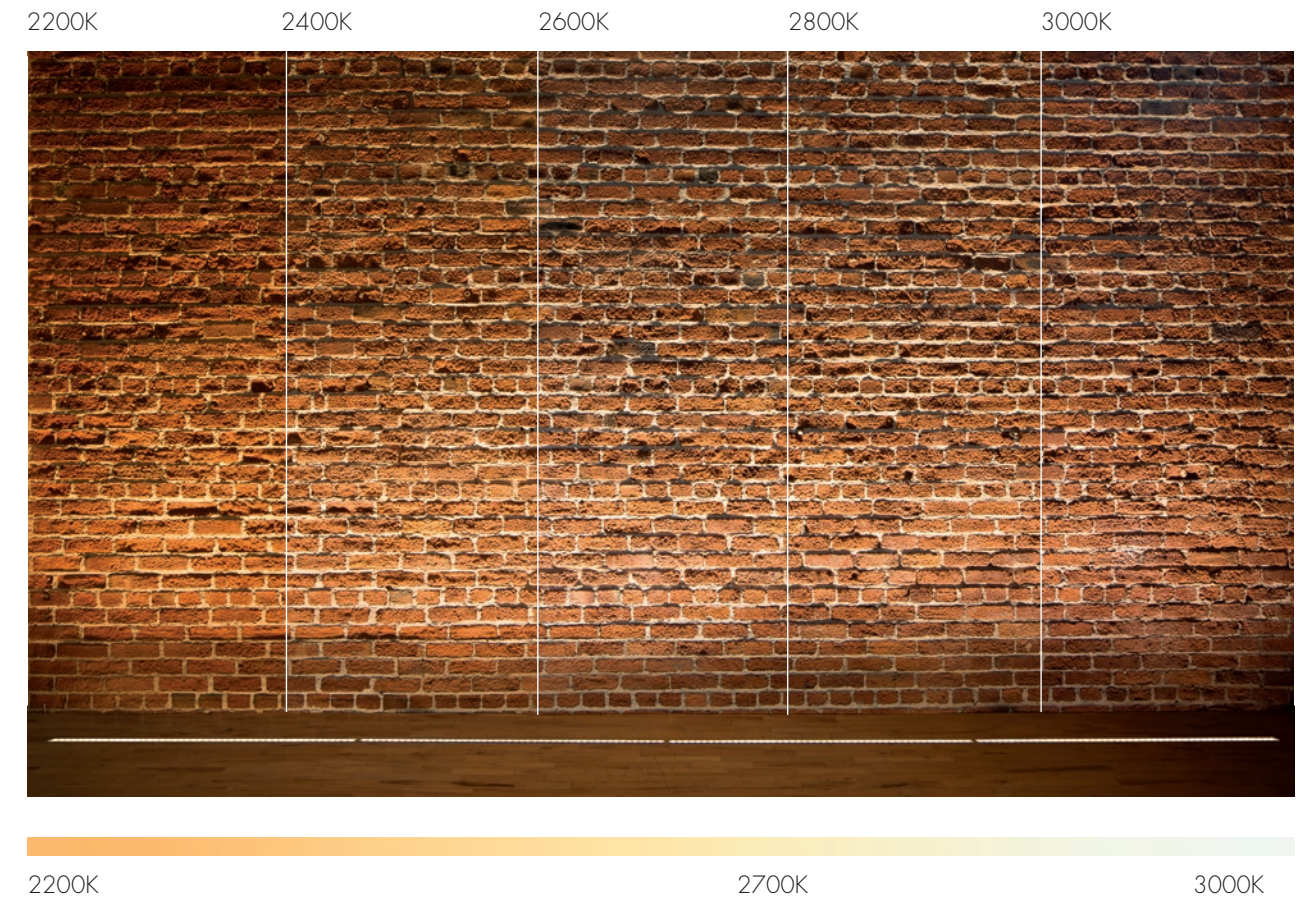
2200K-3000K



Lumenfacade Inground  
10° x 60°, Dynamic Warm

## Dynamic Light

The Lumenfacade Inground marks the introduction of Dynamic Warm, a new Lumenpulse feature that allows smooth variations in warm color temperature, from 2200K to 3000K.



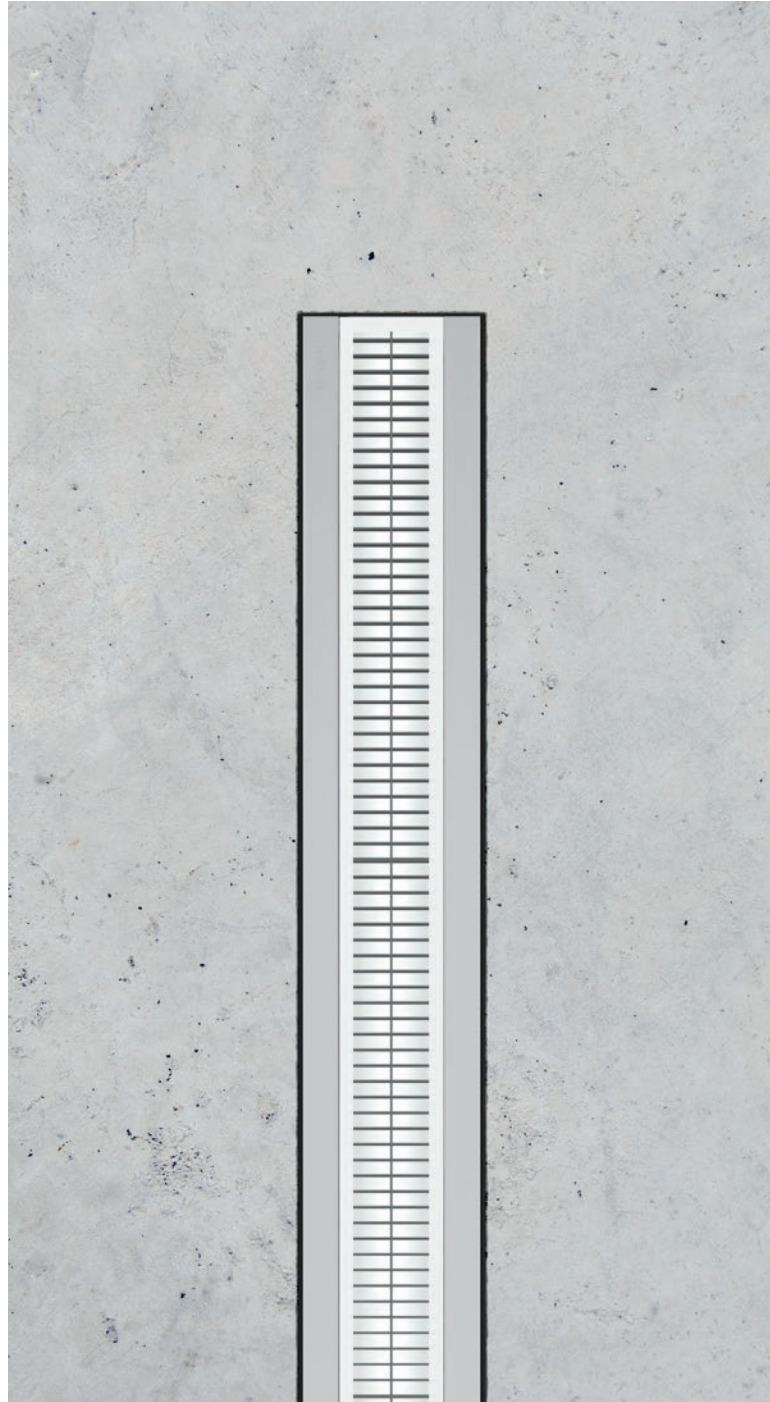
## Applications

Ideal for indoor hospitality applications or heritage and red brick architecture, Dynamic Warm lets architects and designers create the familiar feeling of dimmed incandescent lighting.



ANNO  
DOMINI  
MCMXXV





**Accessories**

Internal micro-louvers are available for flood and grazing applications to shield from glare.







OPTICAL CHAMBER

IP68



Luminaire cable



Jumper cable to next PACBOX



Click & Lock

PACBOX

The power supply and control components are sealed and separated in an IP68 enclosure.



Leader cable from junction box

# Plug & Play

The Lumenfacade Inground uses an innovative dual housing design, which separates the power supply from the luminaire, making it unnecessary to ever unseal the IP68-rated optical chamber. This plug and play technique simplifies connection and installation, protecting the luminaire from water infiltration and ensuring reliable, long-lasting performance.



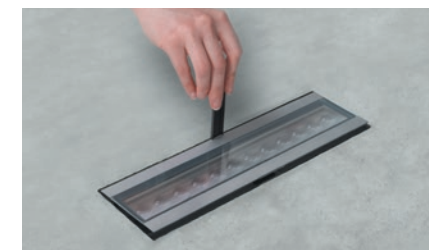


# Easy Installation

With the Lumenfacade Inground, we believe we've created the first truly stress-free, installation-friendly inground luminaire. Using an innovative plug and play technique, the luminaire removes uncertainty and risk from the installation process, allowing easy, tool-free connection.

## Nothing is set in stone!

A unique feature allows the luminaire to be reversed for onsite reorientation.



The luminaire can only be released by means of a unique Lumenpulse™ key tool.



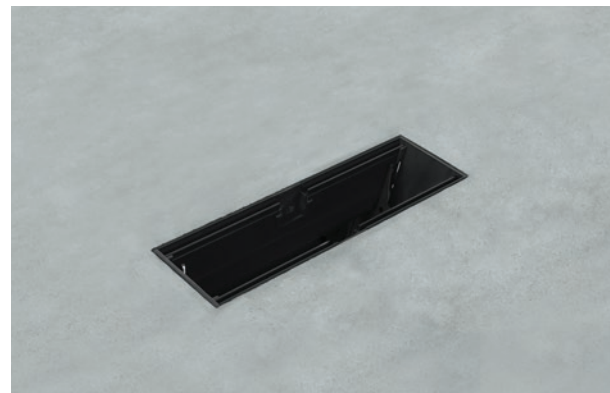
Reversible IP68 optical chamber



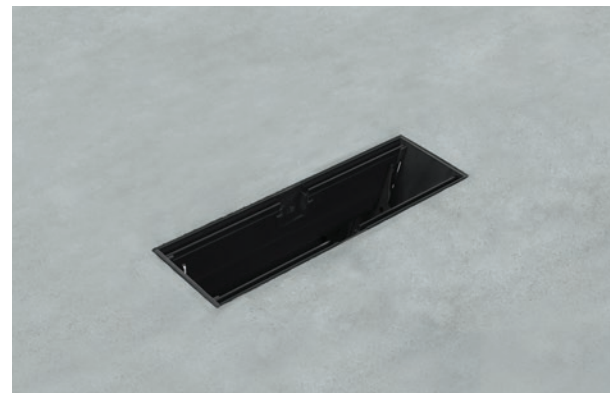
# Step-by-Step Installation

The Lumenfacade Inground can be installed for a wide range of ground-recessed lighting applications in just a few simple steps.

## 4 Easy Steps



1. Remove Blockout Temporary Cover



2. Inspect Cables, Connectors, Blockout, Optical Chamber and Optical Chamber Power Cable



3. Connect PACBOX and Optical Chamber



4. Slide the PACBOX and Optical Chamber into position

Consult the Lumenpulse™ website for detailed installation instructions.

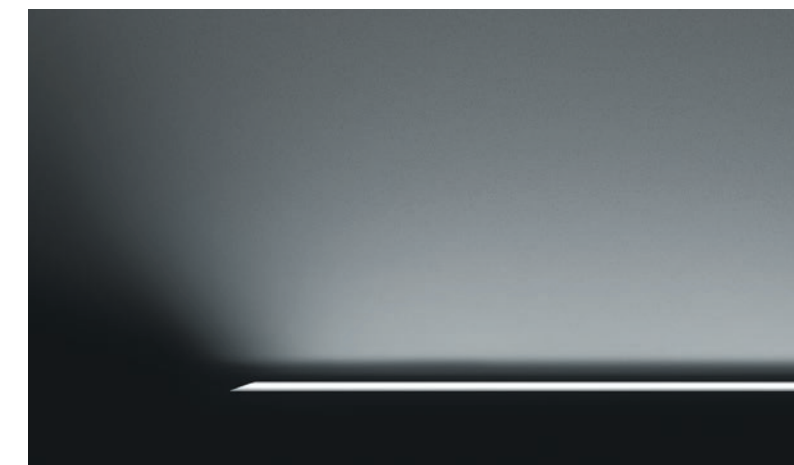




# lumenfacade™ inground

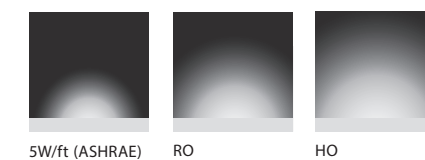
LINEAR GROUND-RECESSED LIGHTING

The Lumenfacade™ Inground is an LED luminaire designed for ground-recessed lighting applications, including asymmetric wallwashing, grazing, and linear wayfinding. An innovative, plug and play design simplifies installation, protecting the system from water infiltration and ensuring long-lasting performance. The Lumenfacade Inground is available in four different lengths (1, 2, 3 and 4')\*, with a wide choice of outputs, color temperatures, color-mixing systems, optics and controls.

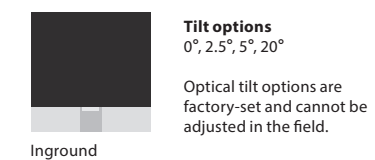


- **Plug and play installation**  
Push-lock connectors simplify installation and connection with no need to compromise IP68 sealed design
- **Exceptional uniformity**  
Asymmetric wallwash capabilities allowing very uniform illumination (up to 3.2: 1 max./min.)
- **Unequaled versatility**  
Choice of sizes, outputs, beams, color temperatures, colors and controls
- **Best-in-class performance**  
59,238 peak candelas, achieving minimum 1 fc (10.7 lx) at 243 ft. (74 m) (Estimated. LOI HO, 4', 4000K, 8° x 8°, 0° tilt setting)
- **Durable solution**  
Sturdy construction; lumen maintenance: 80,000 hours (L70 at 25° C). 5-year warranty

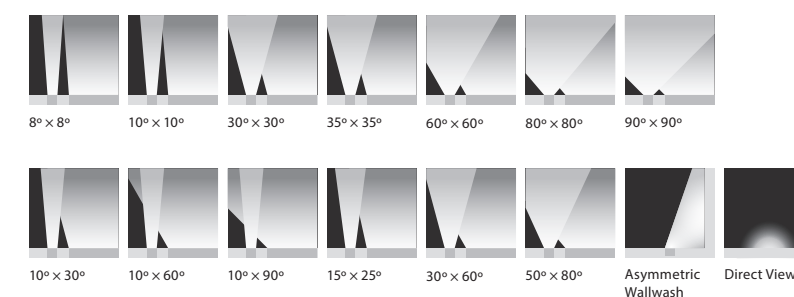
## Power



## Mounting



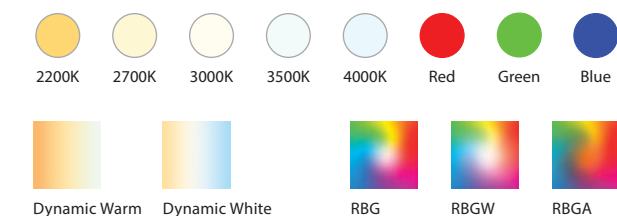
## Optics



## Technical data

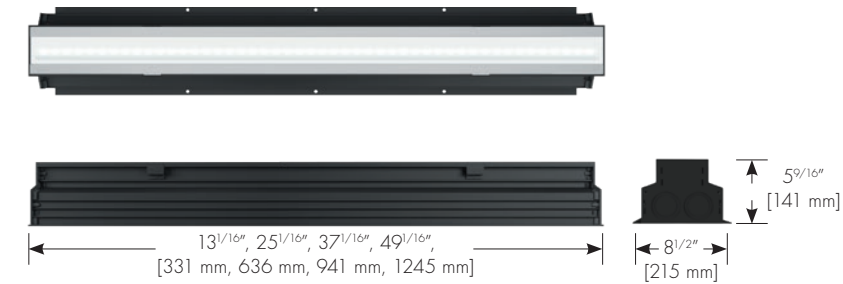
5W/ft 6W/ft <sup>1</sup> 8.5W/ft 15.25W/ft 17.25W/ft	80+	100V-277V	IP68	0-10V DMX/RDM DALI EcoSystem® Lumentalk™ Dim to Warm
Watts/Foot	CRI	Power Range	IP Rating	Control

## Colors



\* See overleaf for imperial and metric measurements  
<sup>1</sup> Direct View RGB only





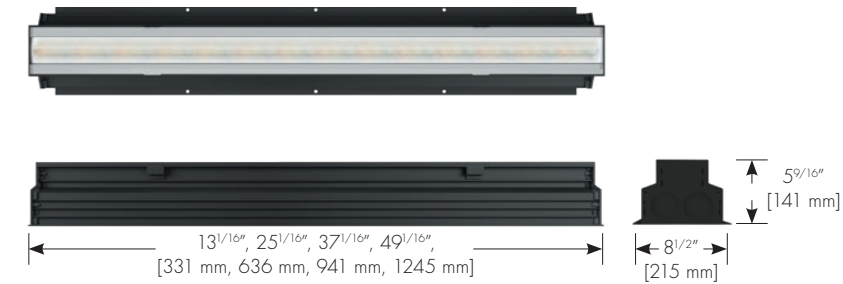
### Specifications

Features	Optics <sup>1</sup>	8° x 8°	10° x 10°	30° x 30°	35° x 35°	60° x 60°	80° x 80°	90° x 90°		
		10° x 30°	10° x 60°	10° x 90°	15° x 25°	30° x 60°	50° x 80°	Asymmetric wallwash	Direct View	
Color temperatures	2200K, 2700K, 3000K, 3500K, 4000K									
Static colors	Red, Green, Blue (made to order)									
CRI	80+									
Lumen maintenance	80,000 hrs [L70 @ 25 °C ] / 60,000 hrs [L70 @ 50 °C]									
Electrical	Power consumption	5W/ft. ASHRAE version, 5W/ft. Direct View version, 8.5W/ft. RO version, 15.25W/ft. HO version								
	Voltage input	24V DC luminaire								
	Remote power & control box (PACBOX)	Quick-connect 100-277V power supply and control box, one required per fixture								
	Control methods	0-10V, DMX/RDM, DALI, Lumentalk or Lutron® EcoSystem® enabled								
Physical	Overall dimensions with blackout (height x depth x length)	1 ft.	5 9/16" x 8 1/2" x 13 1/16" / 141 mm x 215 mm x 331 mm							
		2 ft.	5 9/16" x 8 1/2" x 25 1/16" / 141 mm x 215 mm x 636 mm							
		3 ft.	5 9/16" x 8 1/2" x 37 1/16" / 141 mm x 215 mm x 941 mm							
		4 ft.	5 9/16" x 8 1/2" x 49 1/16" / 141 mm x 215 mm x 1 245 mm							
	Optical chamber	Aluminum extrusion / anodized flush trim								
	Blockout housing	Polymer, recycled PVC (black) reinforced with a stainless steel frame								
	Blockout installation type	Ground recessed								
	Static load	Walk-over compliant up to 500 kg, self-supported; walk-over compliant up to 1000 kg, concrete-supported <sup>2</sup>								
	Factory set optical aiming	0°, 2.5°, 5° or 20° (Not available for asymmetric wallwash or direct view)								
	Lens	Tempered-glass lens 8 mm								
	Connectors	IP68 Push-lock connector								
	Options	Anti-slip lens, internal louver								
	Operating temperatures	-40 °C to 50 °C / -40 °F to 122 °F								
	Environment	Dry / damp / wet locations								

<sup>1</sup> Please consult website for latest IES/LDT files detailing performance.

<sup>2</sup> See installation instructions for details.





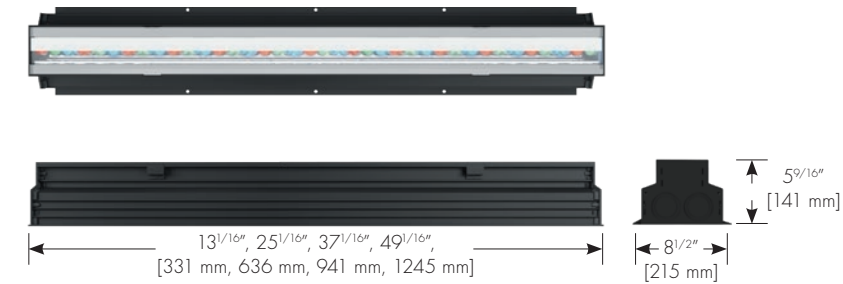
### Specifications

Features	Optics <sup>1</sup>	8° × 8°	10° × 10°	30° × 30°	35° × 35°	60° × 60°	80° × 80°	90° × 90°
		10° × 30°	10° × 60°	10° × 90°	15° × 25°	30° × 60°	50° × 80°	Asymmetric wallwash
Lumen maintenance	80,000 hrs [L70 @ 25°C] / 60,000 hrs [L70 @ 50°C]							
Color temperature mix	2200K, 2700K, 3000K (Dynamic Warm, DWWW) 2700K, 4000K, 6500K (Dynamic White, DWWH)							
<b>Electrical</b>	Power consumption	17.25W/ft.						
	Voltage input	15V DC luminaire						
	Remote power & control box (PACBOX)	Quick-connect 100-277V power supply and control box, one required per fixture						
	Control methods	DIM/DTW, DMX/RDM1, DMX/RDM, Lumentalk						
<b>Physical</b>	Overall dimensions with blackout (height x depth x length)	1 ft.	5 9/16" × 8 1/2" × 13 1/16" / 141 mm × 215 mm × 331 mm					
		2 ft.	5 9/16" × 8 1/2" × 25 1/16" / 141 mm × 215 mm × 636 mm					
		3 ft.	5 9/16" × 8 1/2" × 37 1/16" / 141 mm × 215 mm × 941 mm					
		4 ft.	5 9/16" × 8 1/2" × 49 1/16" / 141 mm × 215 mm × 1 245 mm					
	Optical chamber	Aluminum extrusion / anodized flush trim						
	Blockout housing	Polymer, recycled PVC (black) reinforced with a stainless steel frame						
	Blockout installation type	Ground recessed						
	Static load	Walk-over compliant up to 500 kg, self-supported; walk-over compliant up to 1000 kg, concrete-supported <sup>2</sup>						
	Factory set optical aiming	0°, 2.5°, 5° or 20° (Not available for asymmetric wallwash)						
	Lens	Tempered-glass lens 8 mm						
	Connectors	IP68 Push-lock connector						
	Options	Anti-slip lens, internal louver						
	Operating temperatures	-40°C to 50°C / -40°F to 122°F						
	Environment	Dry / damp / wet locations						

<sup>1</sup> Please consult website for latest IES/LDT files detailing performance.

<sup>2</sup> See installation instructions for details.





### Specifications

Features	Optics <sup>1</sup>	8° × 8°	10° × 10°	30° × 30°	35° × 35°	60° × 60°	80° × 80°	90° × 90°	Direct View	
		10° × 30°	10° × 60°	10° × 90°	15° × 25°	30° × 60°	50° × 80°	Asymmetric wallwash		
Lumen maintenance	80,000 hrs [L70 @ 25°C] / 60,000 hrs [L70 @ 50°C]									
Color mix	Additive red, green and blue (RGB) Additive red, green, blue and white 4000K (RGBW) Additive red, green, blue and amber (RGBA)									
Electrical	Power consumption	17.25W/ft. / 6W/ft. (Direct View)								
	Voltage input	15V DC luminaire (RGB) / 12V DC luminaire (RGBW, RGBA) / 24V DC luminaire (RGB Direct View)								
	Remote power & control box (PACBOX)	Quick-connect 100-277V power supply and control box, one required per fixture								
	Control methods	DMX/RDM, Lumentalk								
Physical	Overall dimensions with blackout (height x depth x length)	1 ft.	5 9/16" × 8 1/2" × 13 1/16" / 141 mm × 215 mm × 331 mm							
		2 ft.	5 9/16" × 8 1/2" × 25 1/16" / 141 mm × 215 mm × 636 mm							
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	Optical chamber	Aluminum extrusion / anodized flush trim								
	Blockout housing	Polymer, recycled PVC (black) reinforced with a stainless steel frame								
	Blockout installation type	Ground recessed								
	Static load	Walk-over compliant up to 500 kg, self-supported; walk-over compliant up to 1000 kg, concrete-supported <sup>2</sup>								
	Factory set optical aiming	0°, 2.5°, 5° or 20° (Not available for asymmetric wallwash or direct view)								
	Lens	Tempered-glass lens 8 mm								
	Connectors	IP68 Push-lock connector								
	Options	Anti-slip lens, internal louver								
	Operating temperatures	-40°C to 50°C / -40°F to 122°F								
Environment	Dry / damp / wet locations									

<sup>1</sup> Please consult website for latest IES/LDT files detailing performance.

<sup>2</sup> See installation instructions for details.



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