

The solar column that brings ambiance and messages to life



KEY ADVANTAGES

- > **Infinite customisation with backlit surfaces for logos, signage or public information**
- > **Strong visual identity that enhances branding for cities, communities or companies**
- > **Ambient illumination that creates a welcoming and distinctive atmosphere**
- > **Sleek design with vertical solar panels integrated into a contemporary column**
- > **Fully autonomous operation independent from the electricity grid**
- > **Simple installation with plug-and-play connectors and minimal site preparation**

LUMIELLE is a solar-powered design column for modern urban spaces, bus stops and private advertising. It supports two distinct use cases:

- Ambient lighting with soft, diffuse illumination to enhance cityscapes.
- Backlit advertising or information with illuminated panels for timetables, logos, or public messages.

LUMIELLE is fully autonomous, requiring no mains connection. Its integrated solar panels, battery, and LED system work together efficiently. The panels charge the battery during the day, and the stored energy powers the light at night. The panels also act as a daylight sensor, eliminating the need for additional photocells.

The vertical panel design combines a sleek, minimalist look with optimised energy capture, even in low winter sunlight, while reducing snow and dust build-up. The IPX8-sealed LiFePO₄ battery, installed underground, ensures reliable performance and long service life, even through consecutive dark days and temperature fluctuations.

Customisation options allow one or more of the four illuminated faces to be coloured, creating a distinctive visual identity while maintaining uniform light diffusion.

Mounting options include a standard base plate or an in-ground fixation, both enabling underground battery placement for added protection.



HIGHLIGHTS



LUMIELLE stands out with its elegant square design and premium finish, a perfect fit for contemporary urban spaces and architecture.



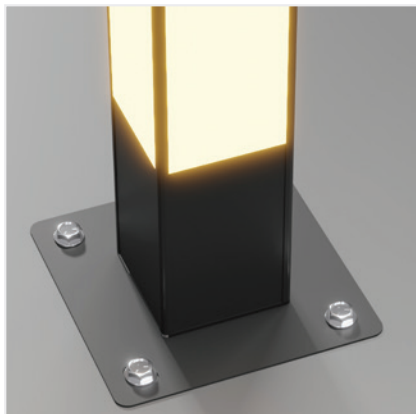
Highly efficient vertical solar panels capture maximum energy all year round while keeping surfaces clear of snow and dust.



An array of 1,536 evenly distributed LEDs ensures consistent lighting on all four faces.



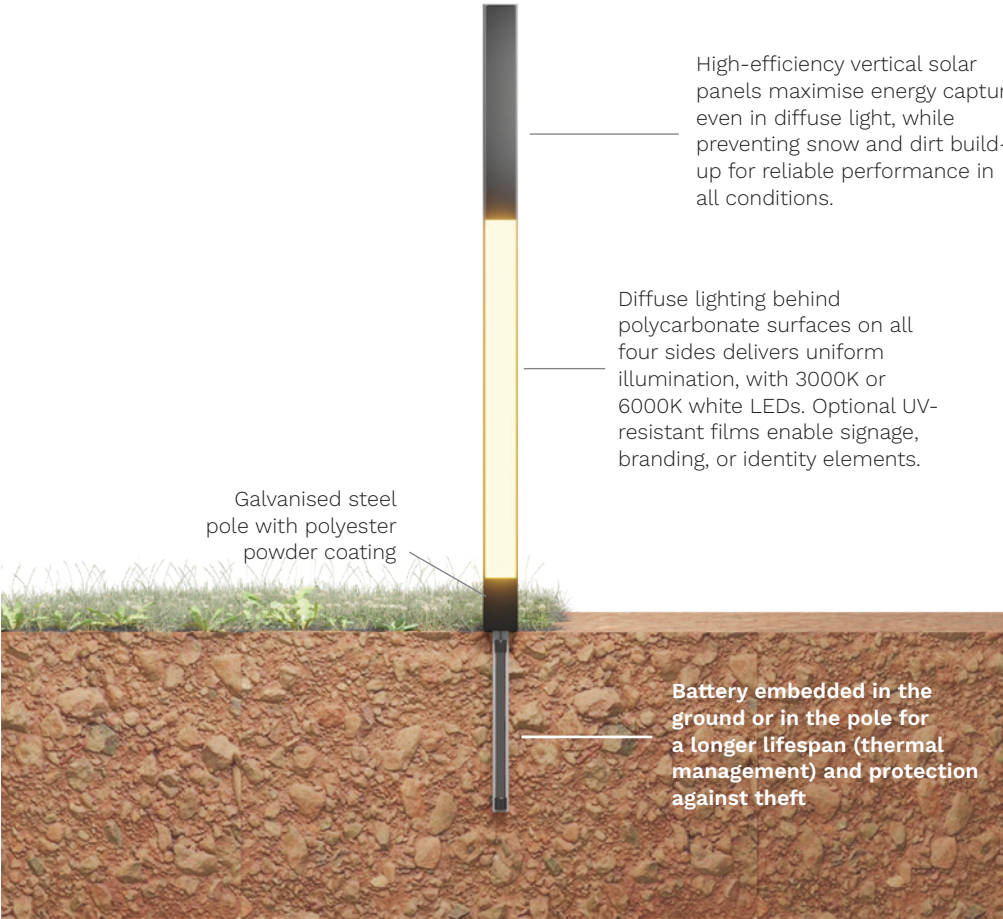
From soft ambient lighting to striking backlit panels, LUMIELLE adapts to every urban or corporate need.




Flexible installation with base plate or in-ground fixation, both enabling discreet underground battery protection.



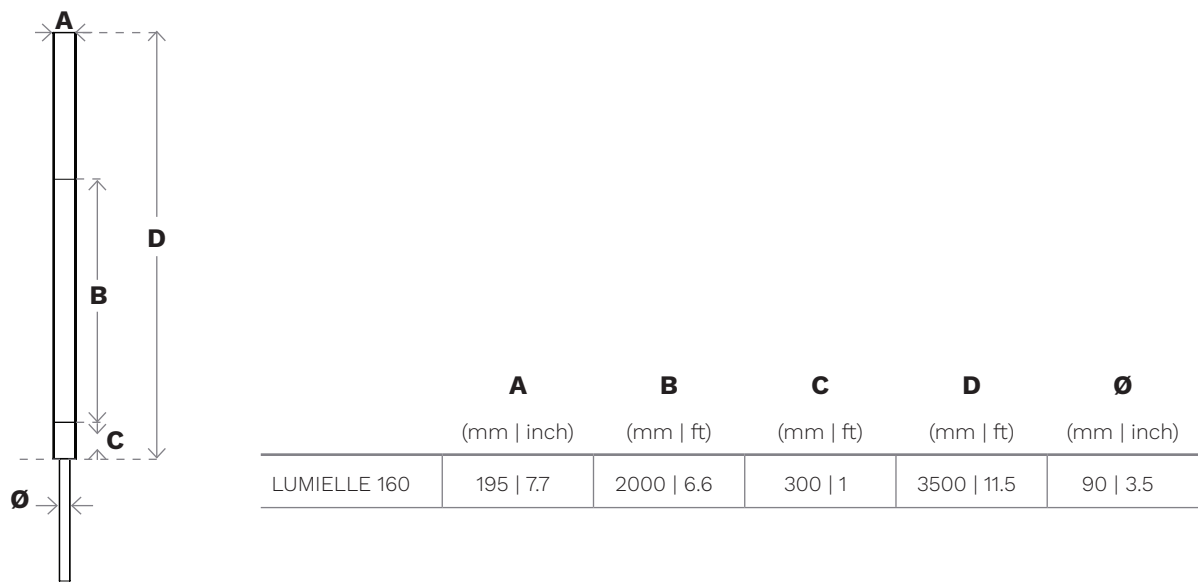
The IPX8 LiFePO₄ battery offers superior water resistance and reliable performance.



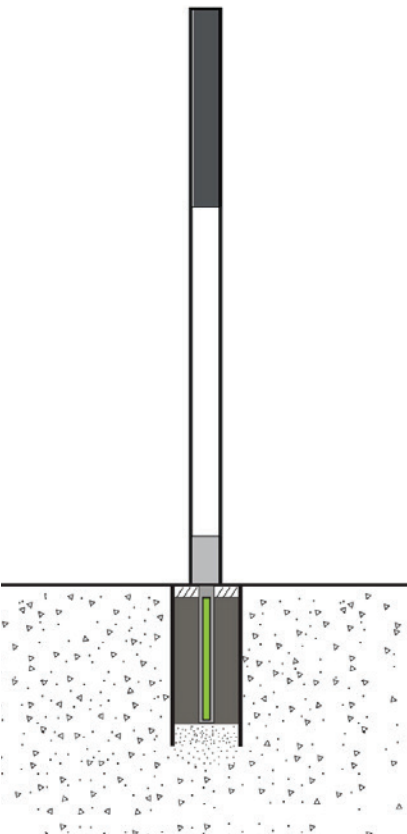
RANGE

	PRODUCT	POLE HEIGHT	ENERGY HARVESTING	ENERGY STORAGE	LUMINAIRE
	LUMIELLE 160	3500mm 11.5ft	4x 40W photovoltaic modules	LiFePO ₄ battery 512Wh	32x 48-LED strip (8 LED strips per side)

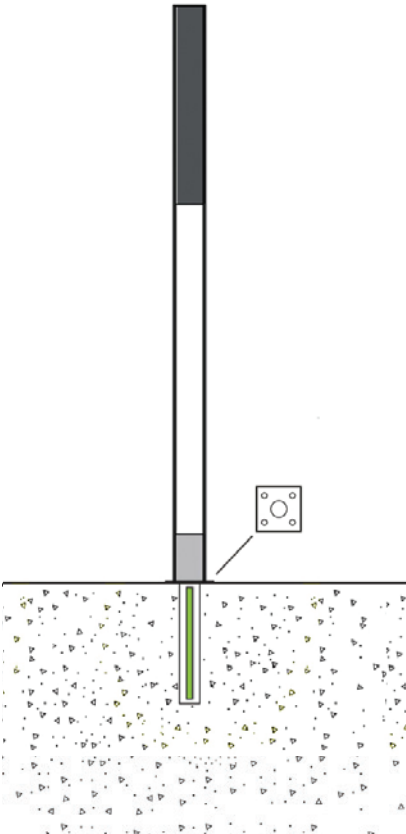
DIMENSIONS AND MOUNTING



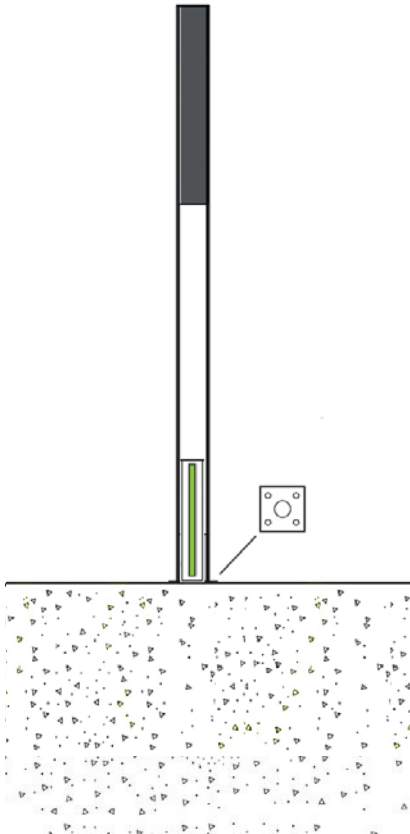
PIPE FOUNDATION



ANCHOR BASE OPEN
(battery in the ground)



ANCHOR BASE CLOSED
(battery in the pole)



CHARACTERISTICS

GENERAL	
CE Mark	Yes
Electrical class	Class III EU
MATERIALS	
Pole	Galvanised steel
Metal parts	Aluminium
Finish	Polyester powder coating
Standard colour	RAL 7016M anthracite grey
Impact resistance	IK 06
SOLAR PANELS	
Technology	Monocrystalline silicon cells
Number of solar cells	32 cells
Frame	Anodised aluminium alloy
Glass	3.2mm (0.13 in) tempered glass
Power	40Wp
Electrical characteristics	VOC: 21.9V
	VMPP: 18.5V
	ISC: 2.26A
	IMPP: 2.16A
Lifetime expectancy	25 years

BATTERY	
Technology	LiFePO ₄
Voltage	12.8V
Capacity	512Wh (40Ah)
Operating temperature	-20°C to 60°C -4°F to 140°F
Autonomy	3 to 5 days
Tightness level	IPX8
Expected lifetime	>10 years
LED MODULE	
Ingress protection	IP 65
LED colour temperature	3000K (Warm White 930) 6000K (Cool White 960)
Colour rendering index (CRI)	>90
Lifetime of the LEDs @ Tq 25°C	50,000h

PERFORMANCE

		Luminaire output flux (lm) Cool White 960		Luminaire output flux (lm) Warm White 930		Power consumption (W)		Luminaire efficacy (lm/W)
	Number of LEDs	Min	Max	Min	Max	Min	Max	Up to
LUMIELLE 160	1536 <i>(384 LEDs per side)</i>	1000	4800	900	4500	6	30	160

LED flux tolerance: ±7%; total luminaire power tolerance: ±5%.

CUSTOM PRINTING OPTIONS



High-resolution printing is available on all sides of the column, allowing you to display logos, messages, or other information on each surface.

The advertising surface is backlit with cool white light (6000K), ensuring vibrant visibility without altering logo or colour accuracy.

A two-layer process with a UV-resistant laminate ensures long-lasting quality, tested with UV-XENON for a minimum of 5 years. Durability may vary depending on environmental conditions.

The applied film is extra-clear, matt, anti-glare, UV-resistant and suitable for permanent use on flat or slightly corrugated surfaces. Certified fire resistance: B-S2-D0 (EN standard).

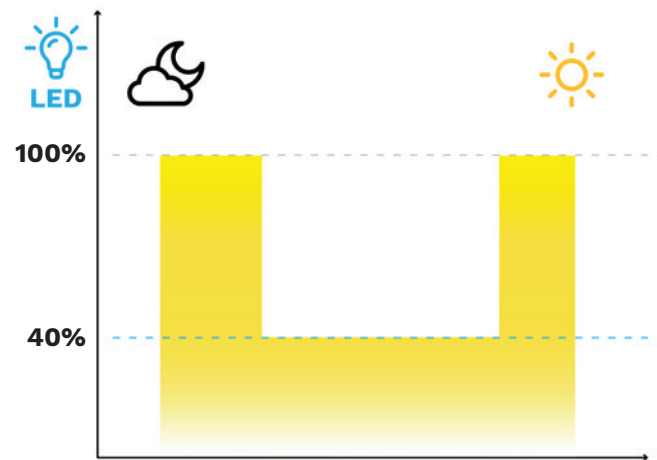
Maximum printable area: 2000 × 150mm.

STANDARD DIMMING PROFILES*

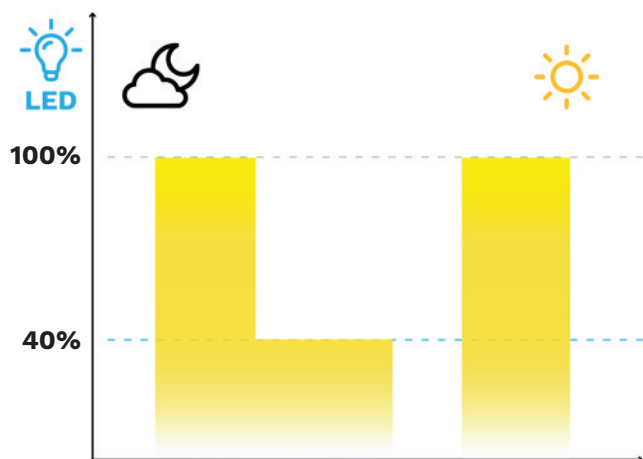
V3: all night 100%



V4: dimming to 40% at night



V5: partial switch-off



*Customised dimming profiles are available as an option.