



Today, we are all aware of the problems due to climate change. Preserving the earth and its resources to ensure greater balance tomorrow is a priority for which **ABEL** acknowledges the measures to be taken.

By choosing photovoltaic, **ABEL** is committed to reduce impacts on the environment and proposes with the **PhotoLight®** range a new, energy saving and ecological lighting concept.

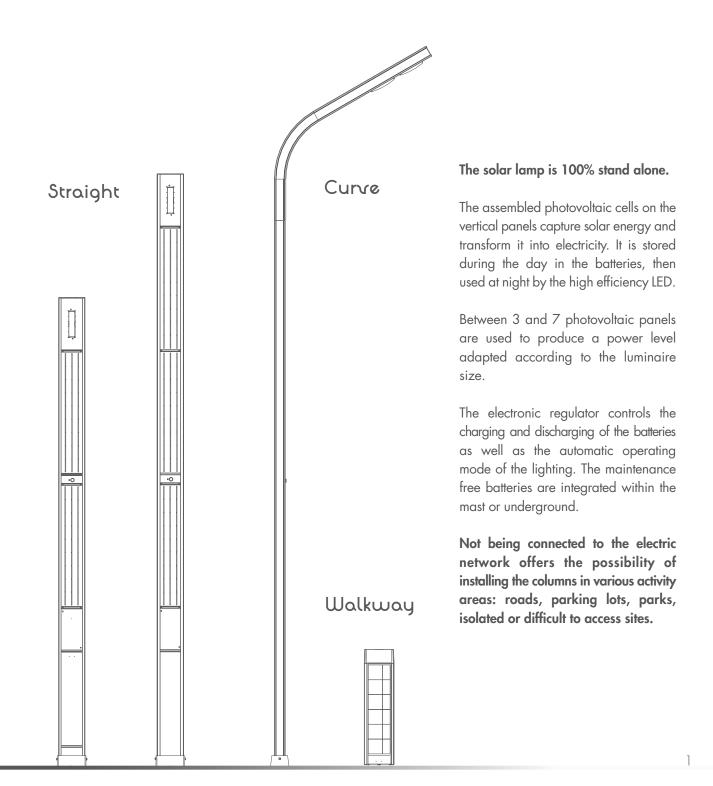
The **PhotoLight®** solar solutions give out a self-sufficient and smart lighting, in phase with global energy transition goals (COP22, Paris Agreement on the climate).

The production of **PhotoLight®** is managed in France, in Brive - Corrèze, and integrated within the production lines dedicated to public lighting for over 6 decades.

PhotoLight_® Range



The design of the **PhotoLight®** range sets itself apart by its simple and congruous shapes, more harmonious than arm and joint solar designs.



THE SUN, a clean, sustainable and free energy

Before the end of this century, global energy consumption will exceed the regenerative capacity of the planet.

In the field of outdoor lighting, **PhotoLight®** offers sustainable alternatives to provide a same service while conserving resources.

The achievement of **PhotoLight**® is to ally the quality of a functional or decorative lighting to the capacity of optimizing the use of the batteries.



Thanks to the sun, **PhotoLight®** does not need electricity to operate⁽¹⁾



Smart LumProgram flexibility for the 'right lighting'



Installation is made easy
No wiring, no trenching, no control cabinets⁽¹⁾



Low maintenance costs Stand alone, LED durability



No CO₂ emissions thanks to an eco-responsible solar design⁽¹⁾



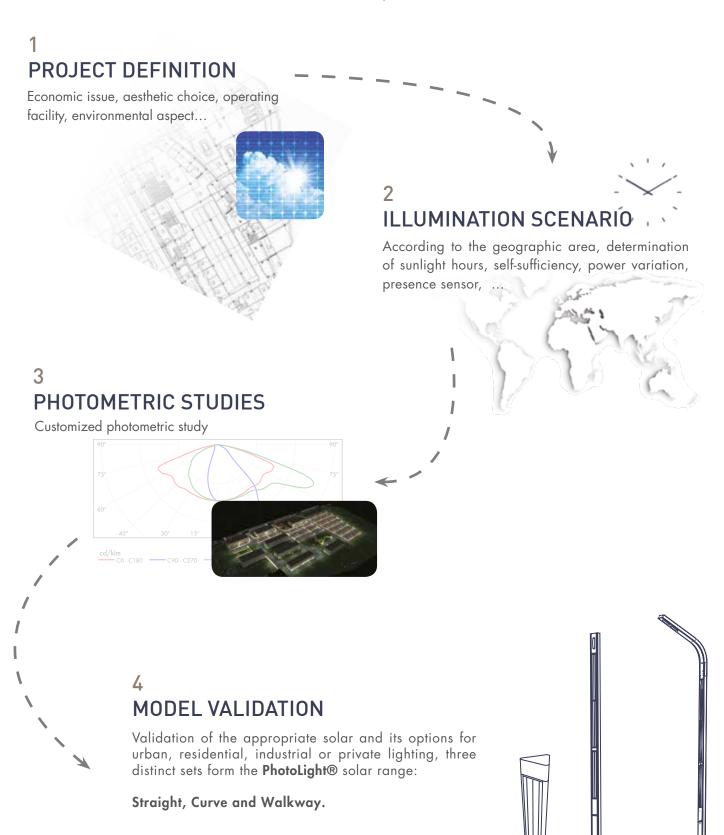
Design and aestheticVertical voltaic panels resistant to residual dirt deposits

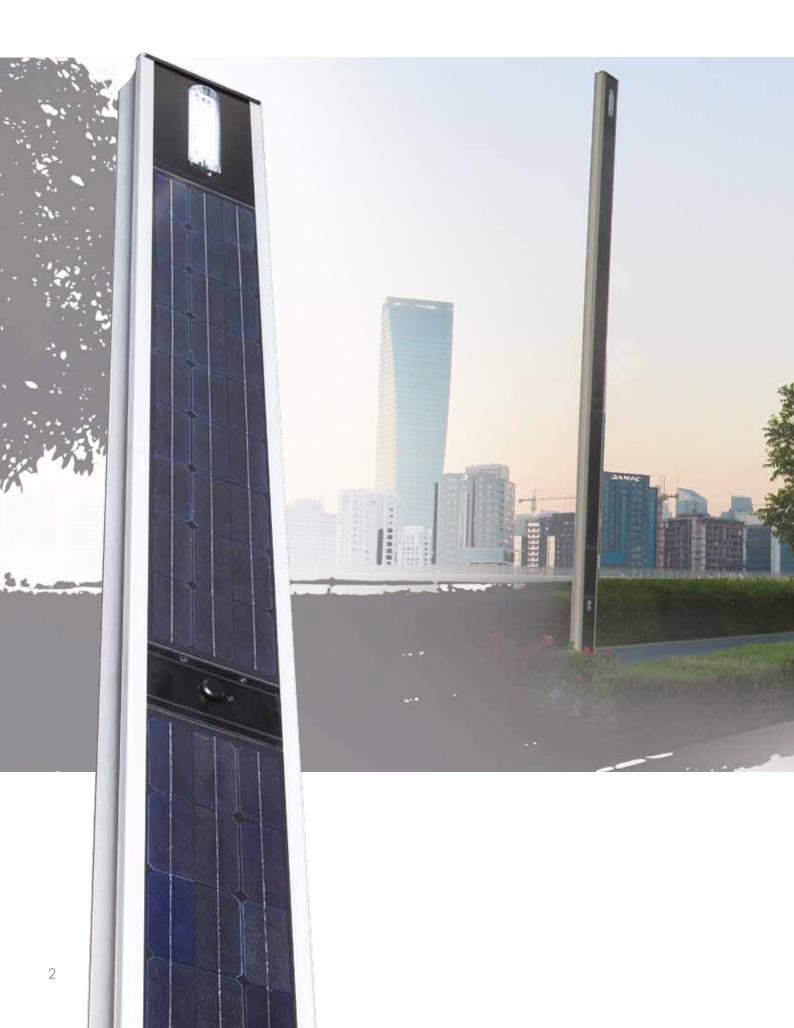


ACCOMPLISHING your solar project

The installation of solar columns is possible **on** sites adequately exposed to the sun.

We advise an estimated feasibility evaluation of solar potential and a lighting simulation so as to correctly plan the installation and ensure continuity of a year-round service.









Straight

4.60 m

4 to 6 solar monocrystalline silicon cell panels
One or two LED modules IP67
With lenses and optical diffuser in polycarbonate with
UV protection
Luminous flux of up to 4,200 lumen
Colour temperature 4000K

Height 4.60 m: 1 LED module, or 2 LED modules

distributed on both sides.

Height 5.80 m: 1 LED module, or 2 LED modules on 1 side, or 2 LED modules distributed on both sides.

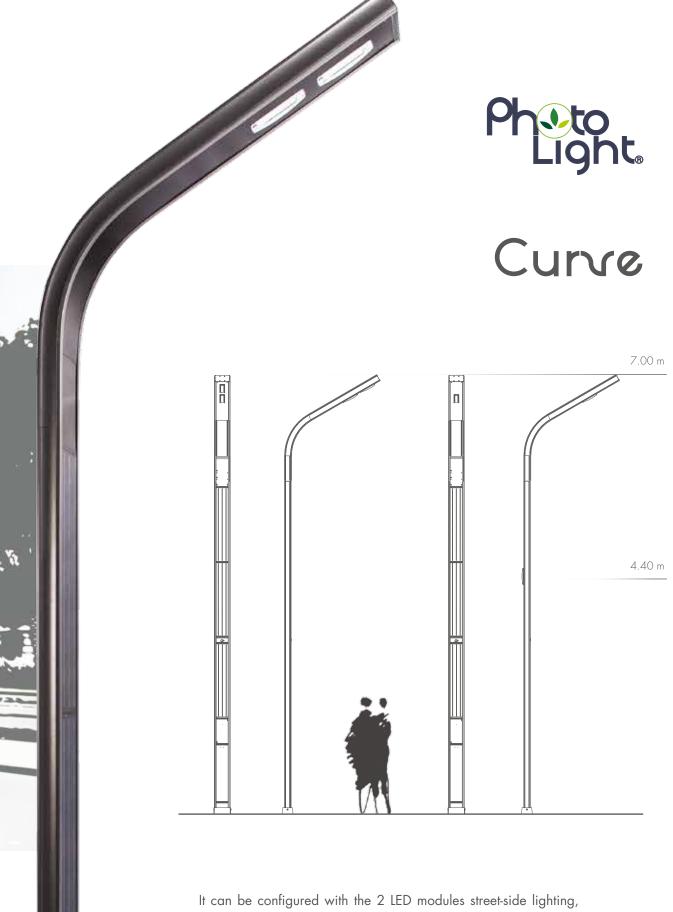
Motion sensor: detection up to 7m

Optional: USB socket.

Solar innovation supported by a streamlined design



7 solar monocrystalline silicon cell panels 2 IP67 LED modules with lenses and optical diffuser in polycarbonate with UV protection Luminous flux of up to 4,200 lumen Colour temperature 4000K



It can be configured with the 2 LED modules street-side lighting, or 1 LED module street-side and 1 LED module LED pavement-side (height 4.40 m).

Optional: CCTV camera, USB socket.

Height 7 metres

Motion sensor: detection up to 7m. Optional: CCTV camera, USB socket.



Triangular stand alone bollard



Walkway



3 solar monocrystalline silicon cell solar panels
1 IP66 optic block with lenses and 360° optical diffuser
in polycarbonate with UV protection
Luminous flux of up to 700 lumen
Colour temperature 4000K
Recommended for walkways and private gardens
Height 1 metre

HYBRID OPERATION: an alternative idea of solar energy

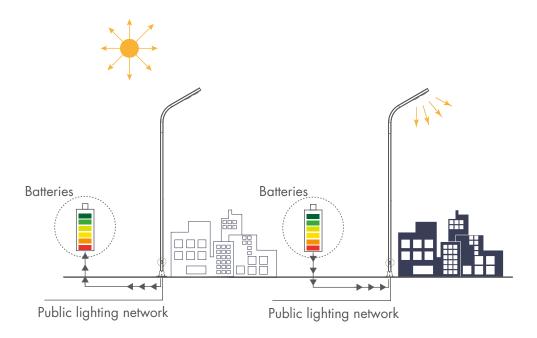
Without grid connection to the electricity network, the solar product must have accumulated enough light to be able to restore it whatever the weather or time of day. The immediate surroundings of the luminaires must be taken into account before setting up a standalone installation.

To provide a consistent performance level, **PhotoLight®** can operate in a hybrid version.

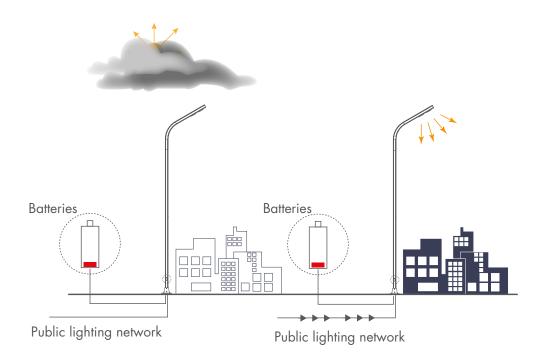
If the installation site does not allow sufficient sunlight, solar power is completed with a grid connection to the public lighting network.

This option guarantees the functioning of the luminaire if the battery voltage is too low.

External power does not recharge the batteries.



If **sufficient sunlight** to charge the batteries -> lighting operates thanks to the batteries



If **insufficient sunlight** to charge the batteries -> the public lighting network takes over and directly powers the lighting

SMART LUM: smart lighting

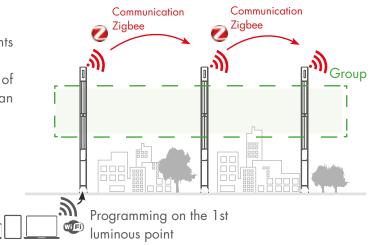
Stand-alone group

All luminaires assigned to the same group of light points are configurable to have identical settings.

As from the first installed column, all other light points of a same group retrieve the same programming and can therefore be modified from a single luminaire.

Time scheduling

The time is automatically scheduled by GPS. Adjustments can also be made manually with a choice of the correct time zone.



Lighting programs



1. Autonomous = Stand-alone

The luminaire lights up at twilight and turns off at sunrise.



2. Cycle = Schedule

Power consumption by the LED module can be defined hourly.



3. Crepuscular sensor



In Schedule mode, it's possible to connect hourly programming to the twilight sensor to turn the luminaire on.



4. P-Adjust = Smart dimming

This function automatically diminishes the level of lighting according to battery capacity, so as to last throughout the night.

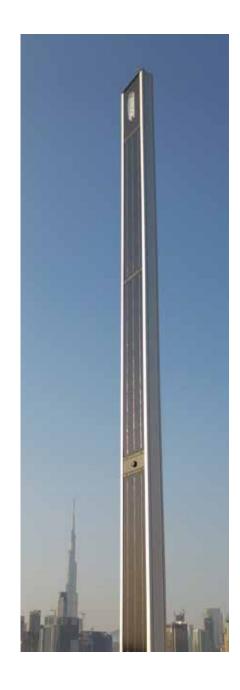


5. Detect = Motion sensor



Lighting transfers to a preset level when a person approaches the luminaire.

Detection: 7 m.





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