

CEILING OR WALL

ÉTOILE, CRYSTAL, NATURE HARMONIEUSE

ON-SITE INSTALLATION BY A PLASTERER/DRYWALLER.

(FOR A CEILING OR WALL PANEL ALREADY FINISHED AND READY TO INSTALL, SEE THE CORRESPONDING SHEET)

SEMEUR D'ETOILES IS THE RECOGNIZED SPECIALIST IN STARLIT CEILINGS

Contrary to a solution by fiber optics (or LEDs wired) in a false ceiling which does not allow to repaint nor repair the ceiling later (the paint would cover the light points, and yellowed or broken light points are irreparable), and which do not allow harmonious placement of the LEDs (the pattern is made with the drill without seeing the result before the end), our solution is sustainable (you can repaint) and aesthetic (you see the pattern when placing the LEDs).



PRIX
DU
VIA

M1	< 0.5 lb/sqft / < 2 kg/m²	IP44	IP40		100-250V~/5V or 12V = Maxi 20-100W/ power supply	Dimming (option): 100 kΩ, 0-10 V, PWM 10 V	0-45°C (operation and storage)	CE, CB, UL, CUL
----	---------------------------	------	------	--	---	--	--------------------------------	-----------------



SOOTHING ATMOSPHERE BY DECORATING YOUR INTERIOR WITH A STARLIT CEILING

- ★ Composite conductive plates (98" 47" 0.71" / 2500 x 1200 x 18 mm) installed and cut like standard plaster boards by a plastered / drywaller.
- ★ Finishing on site by painter: usual plastering + painting (or wall paper).
- ★ Each composite conductive plate has an electrical wire to be connected to a small power supply (transformer). Power supplies are connected to a wall switch (or dimmer, option).
- ★ Choice of LEDs that are merely pinned into the composite conductive plates. As the entire surfaces of the plates are conductive, LEDs can be pinned anywhere.
- ★ Other manufacturing available: already finished and ready to install, for yacht, etc...

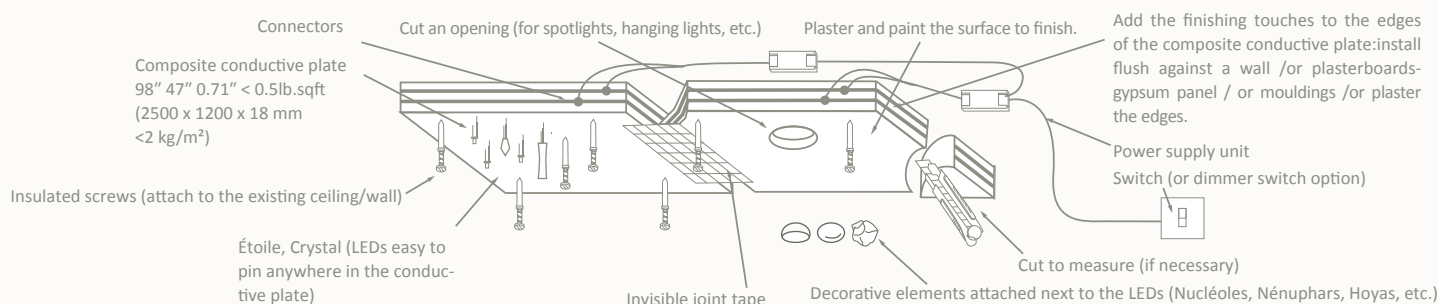
1) BENEFITS COMPARED TO CLASSIC SYSTEMS OF FIBER OPTICS OR LEDs WITH WIRES

- ★ Unlike traditional fiber optic/wired LED systems, our walls and ceilings can be repainted or repaired
- ★ Installation is simple: no profusion of fiber optics nor wires.
- ★ Harmonious placement of the LEDs, because you see the design appear progressively while you pin them in the conductive plate, through the painting.
- ★ Sophisticated light effects: LEDs with transparent optical lenses, integrated and miniaturized. They direct light back to the ceiling
- ★ Significant brightness without losing light as you would if you were using fiber optics that attenuate the light when aging
- ★ It fits perfectly with the architecture as it is easy to cut.
- ★ Standard suspended ceiling of 4" / 10 cm preserves headroom (if necessary, can be reduced to 0" / 0 cm).
- ★ Highest quality components (LEDs, power supply, connectors, plates).

2) INSTALLATION GUIDE

Fully conductive plates to be installed as you would do for plaster board / drywall.

You paint in any color. Several types of LEDs to pin in the plates. All dimensions between 11 sqft and 10,000 (3 and +1000 m²).



INSTALLATION IS SIMPLE: similar to the installation of a standard false ceiling or wall. Can be installed during either initial building or renovation. Ideally at the same time as the installation of other suspended ceilings, by a plasterer/drywaller.

1. Cut and screw our composite conductive plates onto the existing solid or false ceiling, or to the wooden or steel framing. The conductive plates can also be installed vertically onto walls. **2. Place** the power supply unit above the conductive plate (or elsewhere) and connect, just as you would connect transformers for recessed spotlights. Connect the power supply to a standard switch (or dimmer switch on option). **3. Add** the invisible joint tape (as you would for a drywall / ceiling), **plaster** the ceiling or wall (and the edges if you are covering only a part of it), and **paint**. If installing on a wall, reinforce with sleek fiberglass rolls. Standard gypsum plasterboard can be used to complete the ceiling or make the base of a wall while

keeping the ceiling/wall flush. **4. Pin the LEDs** through the paint anywhere into the conductive plate. The LEDs are mounted on two different lengths of pins that receive electricity from the two layers of conductive film in the plate. Make sure that the LEDs are located in an area that is out of reach of small children.

Add decorative materials if you want: Nucléoles, Nénuphars, Hoyas, Crystals...

CCTP / DTU: Contact us

3) HIGH QUALITY COMPONENTS PROVIDED IN A KIT FOR A STARLIT CEILING / WALL

CONDUCTIVE COMPOSITE PLATE

- * 33 sqft (98"47" 0.71") / 3 m² (2500 x 1200 x 18 mm)
- * < 0.5lb/sqft / < 2 kg/m²
- * White, which simplifies the finishing once installed
- * Dust-free for safety and ease of installation
- * Anti-delamination
- * Bending maximum 2"/yd / 4 cm/ml (more by request)
- * Fire resistance (M1)
- * Water-resistant
- * Acoustic: Rw=5dB $\alpha_w=0.35$ (better sound absorption and less reflexion than acoustic plasterboard)
- * Thermal insulation ($\lambda = 0.032$ W / mK)

ANTI-SPARK CONNECTOR

- * 700kg with integrated traction-stop
- * Wires 7' / 2m (can be extended)

HIGH PERFORMANCE POWER SUPPLY UNIT

- * Regulated power supply to avoid damaging the LEDs and increase lifetime, 4 protections, emits little heat, and is silent
- * 100-250V / 20W 5VDC or 12VDC
- * Small: 5"½ 1"¾ 1"¼ / 143 x 45 x 30 mm
- * On demand 100W power supply or 20W dimmable power supply

INSULATED SCREWS

- * Insulated screws to fix to framing or existing ceiling/wall

INVISIBLE JOINTS

- * Insulating (anti short circuit) tape designed for invisible joints (supplied when 2 or more plates ordered)

STARLIGHT (LEDs)

Small warm white - 2700K or small pure white - 6000K

(or other models upon request: see our wide range, including six shades of white, 3 intensities, 3 different lenses...)

- * Entirely transparent, without base
- * Tiny (<0.1" / 3 mm)
- * Sophisticated optical lenses that retro-light the ceiling / wall
- * 5VDC or 12VDC, 0.085W, 150mcd (warm white), 180 mcd (pure white)
- * 130° beam angle
- * High-quality light: shade, intensity
- * Uniform light distribution
- * 20,000H
- * Award winning
- * <0.1 W/LED for example 100 LEDs: 10W



Award-winning Étoile LEDs: very small and entirely transparent

INSTRUCTIONS

- * Detailed instructions to ensure successful installation in your project, including expert advice from an Arts craftsman

NOT PROVIDED

- * Primer, plaster, paint: use the recommended references and do a preliminary test

4) ETOILES (STARS): OUR COLLECTION

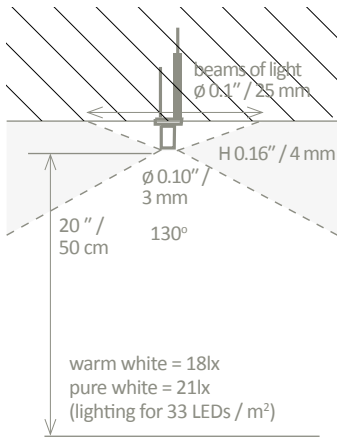
In order to create the light effects that you desire, we manufacture a wide range of Etoiles (Stars) LEDs. Their quality has been rewarded several times. They are miniaturized (<0.1 / < 3mm) with integrated optical lenses backlighting the ceiling.

★ All of our works include a sufficient number of LEDs to create a starlit effect. For additional effects (e.g., the illusion of depth or a specific design), we manufacture a wide range of supplemental LEDs.
★ Our award-winning LEDs are of high quality: miniature, completely transparent and without base, they produce sophisticated lighting that is visible even in daylight (>2,000lx). Their integrated optical lenses allow you to choose how to focus their light output: either towards the wall/ceiling or into the room itself. We manufacture a wide range of shades, intensities and lenses, all of which have uniform shades of white, ranging

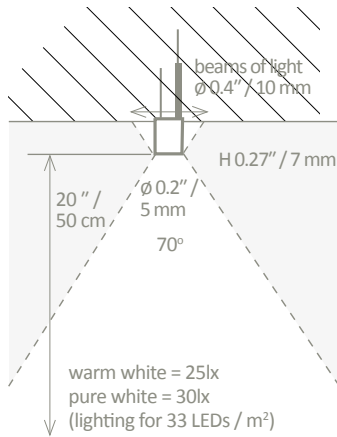
from warm white to pure white. ★ Thanks to the conductive plate, it is possible to pin LEDs anywhere you would like on the surface. ★ Please see specifications to determine the maximum number of LEDs possible for each power supply unit (generally either 200 or 1,000 / power supply). ★ Our LEDs provide elegant light without creating a harsh glare. ★ Should you wish to increase the amount of light, consider adding spotlights, or Planètes hanging lights. ★ Maintenance: transplant to 0.04" / 1 mm if loss of connection.

LED	Characteristic
Small warm white*	ø 0.1" / ø 3 mm, 2700K, 0,085 W 150mcd, 6LM, 20000H, IRC80
Small pure white*	ø 0.1" / ø 3 mm, 6000K, 0,085 W 180mcd, 7LM, 20000H, IRC75
Intense warm white*	ø 0.2" / ø 5 mm, 2700K, 0,085 W 350mcd, 7LM, 20000H, IRC80
Intense pure white*	ø 0.2" / ø 5 mm, 6000K, 0,085 W 500mcd, 8LM, 20000H, IRC75

* Warm white LEDs (2,700K) are soothing: slightly yellow, resembling the flame of a candle or an old-fashioned incandescent lamp.
Pure white LEDs (6,000K) are more dynamic and energizing



Small



Intense



The collection of Étoile LEDs



Adjustable LEDs



Starlit ceiling with seven LED models

OTHER MODELS

- ★ Beyond the four models described in chart above, we can also fabricate on demand a wide range of bespoke LEDs.
- ★ Six shades of white available: classic warm white (2700K) and pure white (6000K), we also manufacture LEDs in 3000K, 3500K, 4000K, and 4700K.
- ★ We also manufacture seven colours: purple, pink, blue, green, yellow, orange, and red.
- ★ We also manufacture LEDs with square lenses, producing crisscrossing rays of light. And other models on demand.

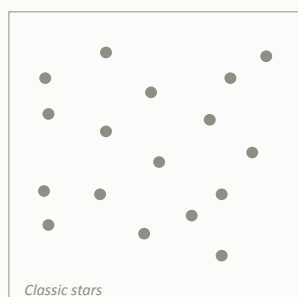
ADJUSTABLE LEDs

Our adjustable LEDs can be positioned so their beams of light illuminate a specific spot on the wall or ceiling, much like a tiny projector. Add accent lighting to highlight a particular detail of an object; or evoke a warm summer night by taking advantage of their resemblance to fireflies. 70 °, 0.5 cd, 0.1 W. Manufactured in six shades of white.

LED DESIGNS

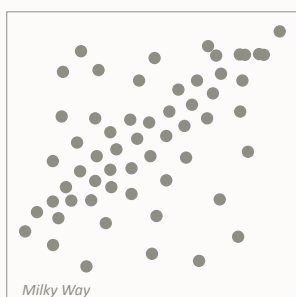
Thanks to our innovations and creations, it is easy to create the perfect design to enhance a range of spaces. Position the LEDs as you wish, judging the results as you go. 17 LEDs/m² is a sufficient quantity of LEDs to create a classic starlit effect. Should you have other designs in mind, consider ordering more LEDs. We advise considering the overall effect of the LED design. One can evoke the night sky without faithfully re-creating it: a ceiling is smaller than the sky. Well-matched composition is like ikebana, the Japanese art of flower arrangement: an organized chaos that embraces empty space and allows the viewer to see the beauty of the lights themselves. Various effects can be designed to create a more complex design. For example, you could have a Milky Way design with a mixture of LEDs (80% small warm white, 15% intense warm white, and 5% pure white).

EXAMPLES OF DESIGNS (STARS-LEDs)



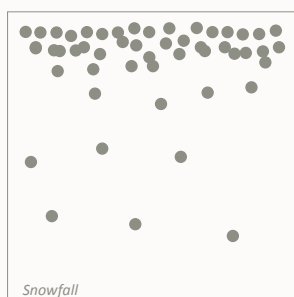
Classic stars

1.5-3 LEDs/sqft / 17-33 LEDs/m²



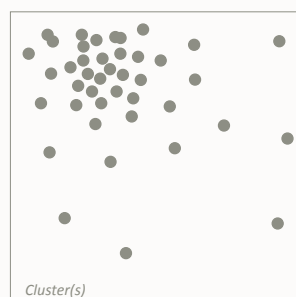
Milky Way

5-6 LEDs/sqft / 50-66 LEDs/m²



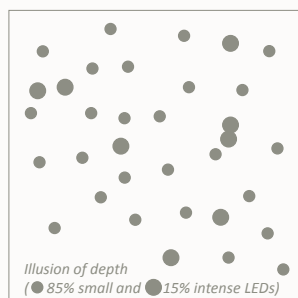
Snowfall

4 LEDs/sqft / 40 LEDs/m²



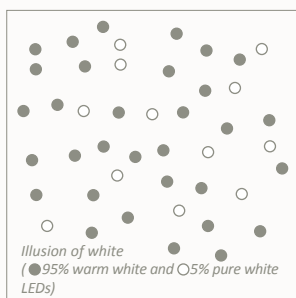
Cluster(s)

5-6 LEDs/sqft / 50-66 LEDs/m²



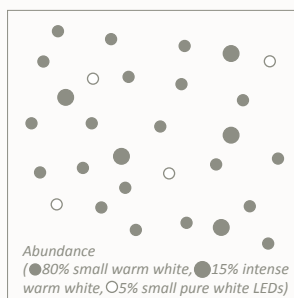
Illusion of depth
(● 85% small and ● 15% intense LEDs)

3 LEDs/sqft / 33 LEDs/m²



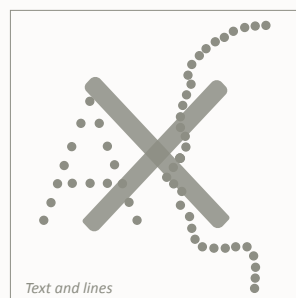
Illusion of white
(● 95% warm white and ○ 5% pure white LEDs)

3 LEDs/sqft / 33 LEDs/m²



Abundance
(● 80% small warm white, ● 15% intense warm white, ○ 5% small pure white LEDs)

3 LEDs/sqft / 33 LEDs/m²



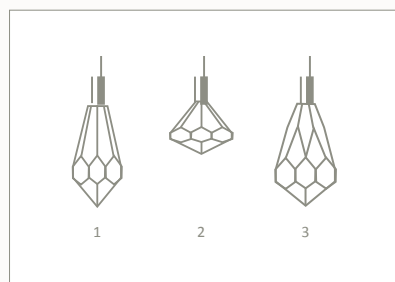
Text and lines

5) CRYSTALS: OUR COLLECTION

Our Crystal LEDs dazzle at the first glance, creating a spectacular play of light on the ceiling or wall. Like our Étoiles (Stars), each LED features technically-advanced details. You can place them as you wish on the conductive plate, ensuring a perfect composition of light.

- ★ Our crystals are hand-cut in a clear, transparent, high-quality crystal
- ★ Our award-winning LEDs are embedded within our bright Crystals. We recommend pure white (6000K) to enhance the transparency of the Crystal or warm white (2700K) to soften the crystal
- ★ Coloured LEDs on request
- ★ Our conductive plate gives you complete freedom to pin Crystals anywhere you would like on our Ceilings/Walls, Plafonnier and Panels.

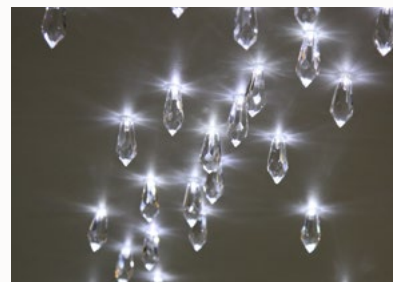
Shape of Crystal	LED
Droplet-shaped 38 x 18 mm	Pure white: 6 000K, 0,085W, 180mcd, 20 000H, CRI75
Diamond-shaped 20 x 20 mm	
Pear-shaped 38 x 24 mm	
Droplet-shaped 38 x 18 mm	Warm white: 2 700K, 0,085W, 150mcd, 20 000H, CRI80
Diamond-shaped 20 x 20 mm	
Pear-shaped 38 x 24 mm	



1 Droplet-shaped, an elongated glow
2 Diamond-shaped, the most stunning impression
3 Pear-shaped, a commanding presence



Diamond-shaped hand-cut Crystal 20 x 20 mm



Ceiling covered with droplet-shaped Crystals, 38 x 18 cm

OTHER MODELS

In addition to the three principal models, we manufacture a wide range of Crystals on demand.

- ★ Additional shapes and sizes.
- ★ Clear or frosted surfaces.
- ★ A range of LED colours.
- ★ We can create other customized Crystal LEDs; for more information please contact us.



1 Pear-shaped, 2 Diamond-shaped, 3 Droplet-shaped, 4 Droplet-shaped with purple LED, 5 Droplet-shaped with pink LED

CRYSTAL LED DESIGNS

With our expertise and astute technology, you can create the perfect design to enhance your project. Position the LEDs as you wish into our Ceilings, Walls, Plafonnier or Panels, judging the results as you go. We advise creating a balanced composition using the principles of ikebana, the Japanese art of flower arrangement: an organized chaos that embraces empty space and is beautiful from both near and far away. Using this principle, the perfect details of each Crystal will be noticeable.

EXAMPLES OF DESIGN (CRYSTAL-LEDs)



1-2 Crystals/sqft / 10-20 Crystals/m²



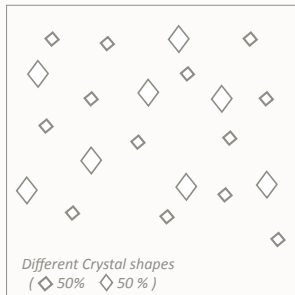
3 Crystals/sqft / 30 Crystals/m²



2 Crystals/sqft / 20 Crystals/m²



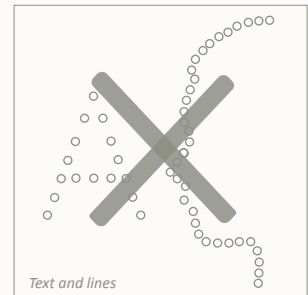
3 Crystals/sqft / 30 Crystal-LEDs/m²



2 Crystals/sqft / 20 Crystals/m²

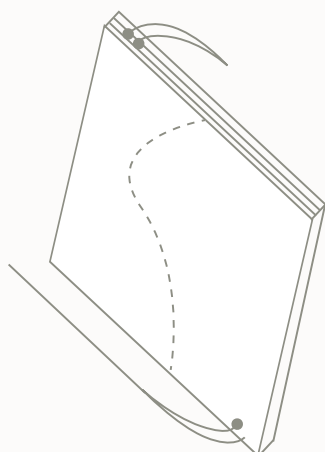


2 Crystals/sqft / 20 Crystals/m²



Droplet and diamond shape, 2700K

6) ACCESSORIES

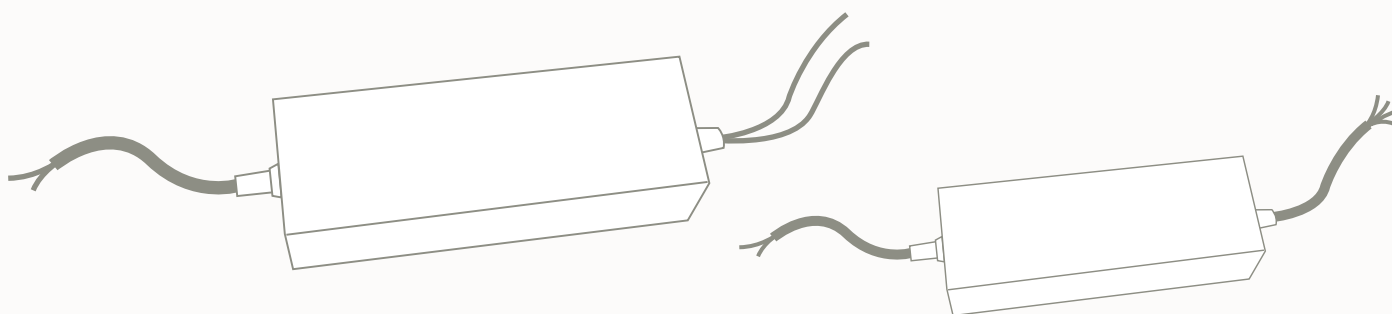


PAIR OF ADDITIONAL CONNECTORS

(Optional for Ceilings/Walls) Should you need to cut a conductive plate to fit it precisely to your space, these connectors will allow you to use both parts.

ADDITIONAL POWER SUPPLY UNIT

(Optional for Ceilings/Walls) A second power supply unit is necessary if the conductive composite plate has been cut into two parts and these parts are located far from one another. This unit features a regulated power supply to avoid damaging the LEDs and to increase the life time, 4 protections, emits little heat, and is silent. 100-250V 20W/5VDC or 12VDC, 143 x 45 x 30 mm.

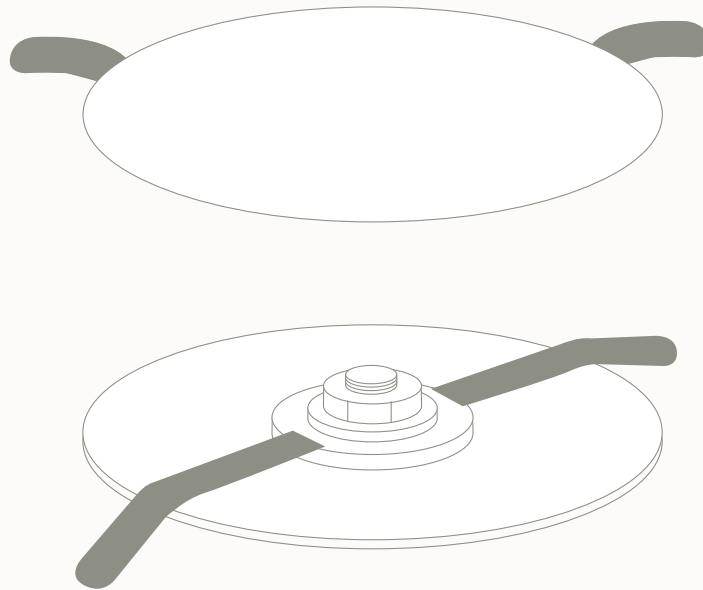


100W POWER SUPPLY UNIT

(Optional for Ceilings/Walls, Plafonnier and Panels) The 20W unit provided with the Ceilings/Walls, Plafonnier or Panels can be replaced with a more powerful 100W unit to connect additional LEDs. This unit features a regulated power supply to avoid damaging the LEDs and to increase life time, 4 protections, emits little heat, and is silent. 100W/5VDC or 12 VDC 100-250V, 170 x 62 x 38 mm.

DIMMABLE POWER SUPPLY UNIT

(Optional for Ceilings/Walls, Plafonnier and Panels) the 20W unit provided with the Ceilings/Walls, Plafonnier or Panels can be replaced with a dimmable power supply unit and dimmer to control the intensity of the LEDs. It is necessary to instal also dimmable LEDs and composite conductive plates. We particularly recommend dimming for spaces requiring very little light, typically less than 10lx (e.g., in a massage treatment room or as a night-light for children). Control can be done by 0-10V, 100kΩ, PMW 10V or DALI, DMX, etc. 100-250V 20W/12VDC, 143 x 45 x 30 mm.



ACCESS POINT FOR POWER SUPPLY UNIT

When installing our ceilings/walls, it is important to ensure access to the power supply once the conductive plate has been put in place. We do not recommend extending the wires 17' / 5 m away from the power supply. Most clients choose to use existing access points (spotlights, ventilation grills, speakers, etc.); however, when there isn't such a spot, our access point provides a good looking access to power supply units. 90 mm in diameter (requires an opening of 75 mm in diameter in the suspended ceiling). Brushed stainless steel (matt finish).

7) FOR MORE ILLUMINATION

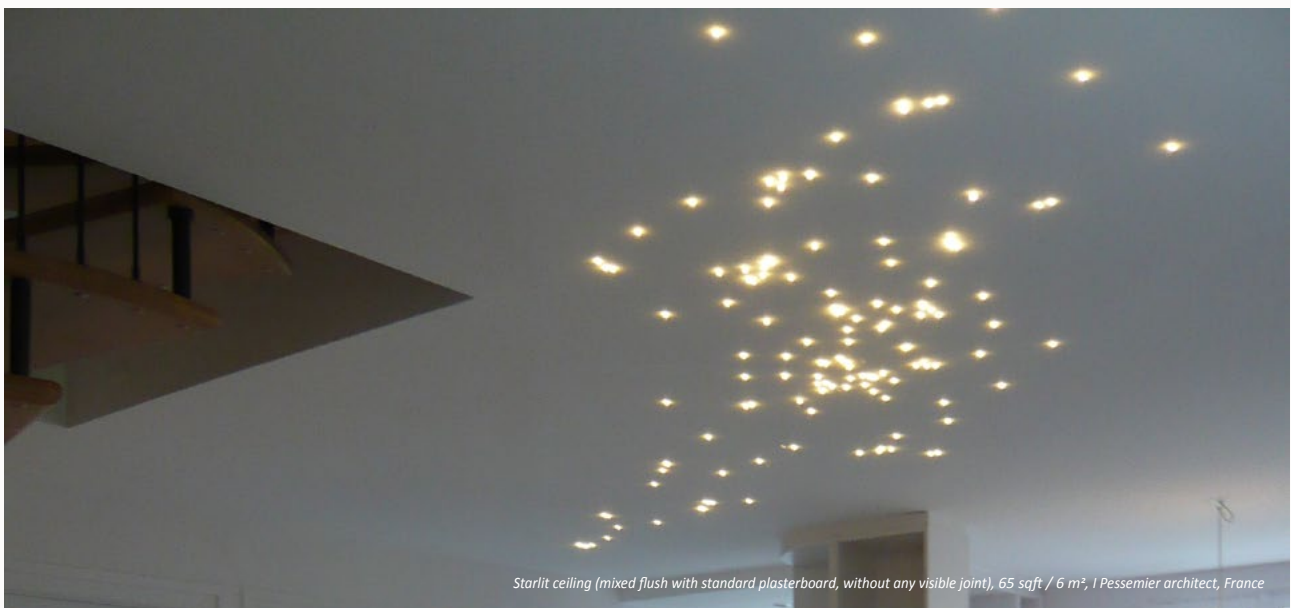
Our LEDs can be looked at without creating a harsh glare: their light power is reduced. For more light, they can be combined with spots, wall lights, table lights, floor lights or hanging lights.



Starlit ceiling with pure white LEDs, 646 sqft / 60 m², Restaurant Emeraude, Fouras, Agetec/V. Pinel, architect



Starlit ceiling, home theatre, 190 sqft / 18 m², Paris



Starlit ceiling (mixed flush with standard plasterboard, without any visible joint), 65 sqft / 6 m², I Pessemier architect, France



Starlit ceiling, Miramar 5* lobby, 590 sqft / 55 m², France, A. Béchu architect