



Architectural backlighting, engineered for the field.

A pre-engineered, ship-flat LED panel system for luminous stone, onyx, resin, and glass.

113.4 in × 75.5625 in / 2880 × 1920 mm | Field-cutttable | 24VDC Class 2 | Patent Pending

eoslight.com

LightSlab™ by EOS — Patent pending

Backlit surfaces should not require bespoke LED engineering.

LightSlab™ replaces one-off lightbox assemblies with a pre-engineered panel platform.

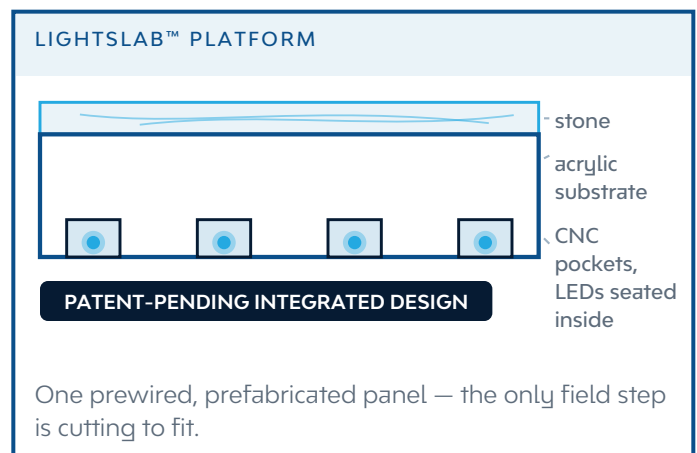
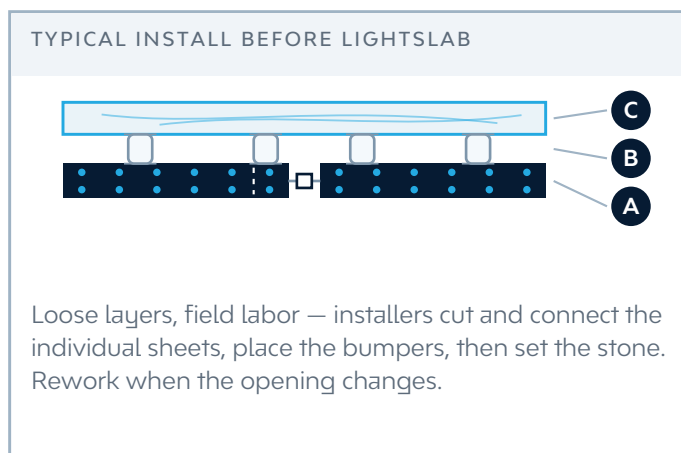


Official LightSlab™ panel — printed safe-cut grid visible across the full sheet.

A luminous stone wall used to mean a manual build in the field: individual LED sheets cut, connected, and spaced by hand, support bumpers placed beneath the stone, drivers matched on site, and uniformity left to chance. When the opening changed, the assembly changed with it — and the rework followed.

LightSlab™ takes a different approach. Each panel arrives prewired and prefabricated as one integrated backlighting system: an LED layer seated in CNC-machined pockets within a precision-engineered acrylic substrate — one integrated, patent-pending design — engineered for even illumination across the full surface and delivered flat, ready to cut to fit.

Specify the surface. LightSlab handles the light behind it.



A = LED sheets

B = custom acrylic/silicone support bumpers

C = stone

Ship-flat delivery

One prewired, prefabricated panel — not separate sheets to cut, connect, space, and support on site.

Field-cut adaptability

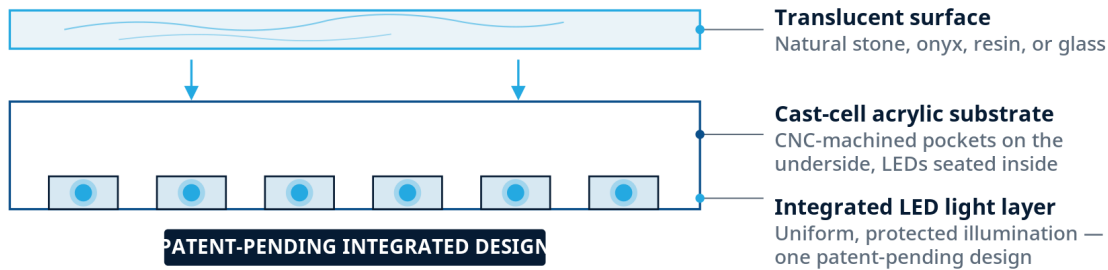
The only field fabrication left: trim to the opening along the printed safe-cut grid.

Engineered uniformity

A pre-engineered LED layout designed for even illumination across translucent surfaces.

A low-profile platform behind the surface.

A cast cell acrylic substrate protects the LED layer and supports the stone above it.



Concept diagram only — no assembled dimensions implied; substrate thickness varies by application.

At the core of every LightSlab panel is a cast cell acrylic substrate — cast, not extruded — selected for optical clarity, dimensional stability, and resistance to yellowing. The substrate carries CNC-machined pockets with the LEDs seated inside, forming one integrated, patent-pending design. It transmits more than 92% of light at 3 mm per ASTM D1003, so the LED layer below reads as a continuous, even plane through the surface above.

The substrate does two jobs at once. It shields the integrated LED layer from damage during handling, installation, and service. And it provides a flat, stable structural backing plane — in horizontal applications, stone rests directly on the acrylic.

Substrate thickness is specified by application, from 0.125 in to 2.000 in and beyond; 0.500 in (12.7 mm) is standard for stone. Thinner substrates suit lightweight panels and signage; thicker sections support structural stone.

Mounting is deliberately conventional. Drill on any printed safe-cut grid line and fasten with standard screws or bolts. No proprietary hardware, no special sourcing.

Prewired and prefabricated — one product, not a kit of parts

Every internal connection between LED sections is made at the factory, inside the integrated panel. Installers never open the panel or manage internal wiring — the only field electrical work is the low-voltage feed to the external drivers.

Cast cell acrylic

Not extruded; superior laser-engraving quality and dimensional stability.

>92% light transmission

At 3 mm, per ASTM D1003.

Standard fasteners

Mount on safe-cut grid lines with standard screws or bolts.

Substrate thickness by application

0.125 in minimum to 2.000 in+; 0.500 in standard for stone.

Predictable power, zoned for real installations.

24VDC Class 2 architecture with four-quadrant power distribution.

LightSlab operates as a 24VDC Class 2 system, keeping the panel side of the installation low voltage and straightforward to coordinate with the project’s electrical team.

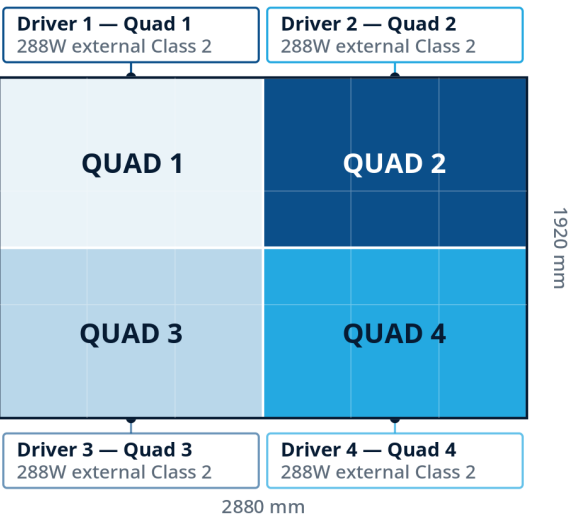
Power is distributed across four independent quadrants, fed by a four-external-288W-driver architecture. Zoning follows the geometry of the panel, so load planning, dimming groups, and control assignments map cleanly onto real installations — full panels, partial panels, and multi-panel features alike.

The wiring topology is parallel by design. After a field cut along the safe-cut grid, the remaining sections are designed to continue operating at full brightness. Drivers accept 100–277V input via external Class 2 LED drivers, and the system is dimmable to below 10% when paired with dimmable power supplies. Control options include 0–10V, DMX/DALI, ELV, and TRIAC/phase dimming by configuration.

Share zoning and control intent with EOS early, and the driver package is configured to match.

Four-quadrant power distribution

Standard panel 2880 × 1920 mm — 24VDC Class 2 — four external 288W drivers



Architecture

- 24VDC Class 2 system
- Four independent zones
- Driver input: 100–277V
- Parallel topology — remaining sections are designed to keep operating after a field cut

Drivers/power supplies are quoted separately unless expressly included in the formal quote.

Zoning schematic — not a wiring diagram; redrawn from the official spec-sheet quadrant layout.

24VDC Class 2

Low-voltage panel architecture.

Four-quadrant distribution

Four external 288W driver architecture.

100–277V input

Via external Class 2 LED driver.

Parallel topology

Remaining sections are designed to operate at full brightness after a field cut.

Dimming

To below 10% with dimmable power supplies; 0–10V, DMX/DALI, ELV, TRIAC/phase by configuration.

Drivers/power supplies are quoted separately unless expressly included in the formal quote.

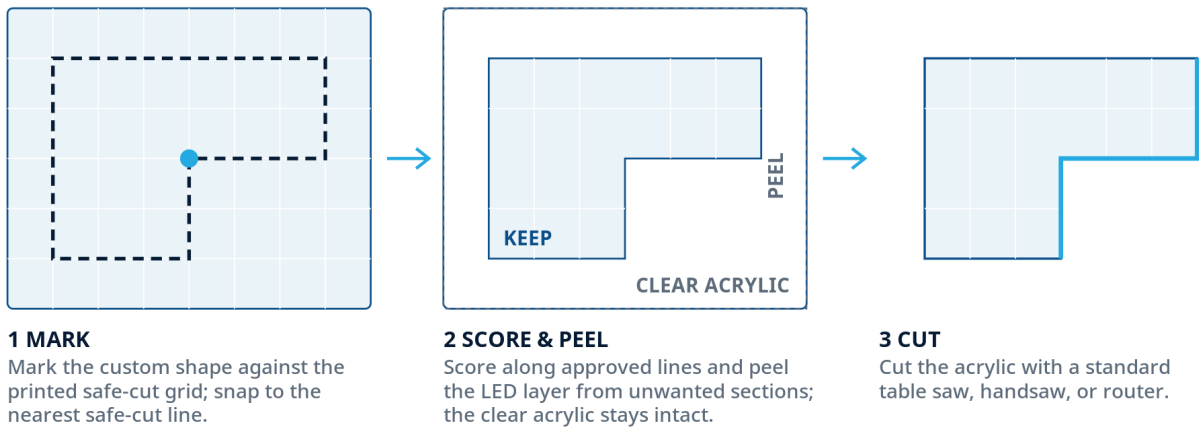
Cut to the opening. Keep the system working.

A documented three-step workflow along the printed safe-cut grid.

Openings shift. Stone arrives oversized. Reflected ceiling plans change. LightSlab is engineered for the reality of the field: every panel carries a printed safe-cut grid at one-inch increments, and customization follows a documented, repeatable sequence using standard tools. No CNC is required for the documented workflow.

Field customization in three steps

Mark — Score & Peel — Cut, along the printed safe-cut grid. No CNC required for the documented workflow.



The marked geometry in step 1 is the final cut geometry in step 3. Remaining sections are designed to operate at full brightness.

1

Mark

Use the printed grid to mark the custom shape, snapping the layout to the nearest safe-cut line.

2

Score and peel

Score along the approved lines and peel away the unneeded PCB sections; the clear acrylic stays intact.

3

Cut

Cut the acrylic with a standard table saw, handsaw, or router.

Because the wiring topology is parallel, the remaining sections are designed to continue operating at full brightness after cutting. Field-cutting instructions and the required tools are provided with each panel, and the ship-flat format keeps transport and handling simple from crate to install.

Printed safe-cut grid

1 in increments across the full panel.

Standard tools

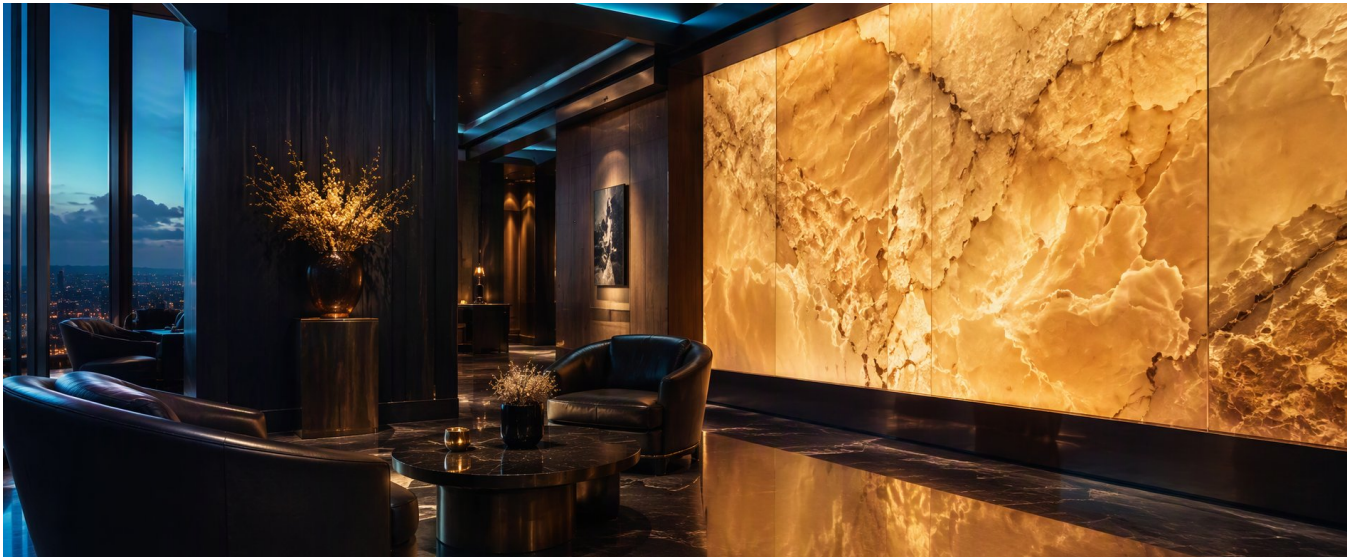
Straightedge, scoring, and a standard table saw, handsaw, or router; no CNC required for the documented workflow.

Instructions and tools included

Provided with every panel.

Luminous surfaces for spaces that need to be remembered.

One backlighting platform across hospitality, workplace, retail, and care environments.



AI-rendered ambiance visualization — not a completed EOS project or installation.



Official EOS application photography: backlit stone bar (left); blue agate reception feature (right).

A backlit onyx bar that carries the room. A stone reception wall that reads as a single monolithic plane of light. A retail feature, a spa, a headboard wall — surfaces that anchor a space rather than decorate it.

LightSlab serves hospitality, commercial interiors, restaurants and bars, high-end residential, retail, and healthcare projects with one standardized platform. A non-ferrous acrylic substrate supports hospital and MRI-sensitive applications, with the power supply installed remotely, up to 30 ft from the application.

Surfaces

Natural stone, onyx, resin, glass, and other translucent materials.

Verticals

Hospitality · commercial interiors · restaurants & bars · residential · retail · healthcare.

Hospital/MRI-sensitive design

Non-ferrous substrate; remote power supply up to 30 ft from the application.

Specify with confidence.



LightSlab™ standard panel — specification summary.

STANDARD PANEL	113.4 in × 75.5625 in · 9.45 ft × 6.3 ft · 2880 × 1920 mm · 59.9 sq ft
SYSTEM	Integrated acrylic backlighting panel; field-cut adaptive design
VOLTAGE	24VDC Class 2
POWER ARCHITECTURE	Four-quadrant distribution; four external 288W driver architecture; drivers quoted separately
DRIVER INPUT	100–277V via external Class 2 LED driver
CCT	2400K, 2700K, 3000K, 3500K, 4000K, 5000K, 6000K, Tunable White (2400K–6000K, customizable), RGB, RGBW
CRI	80+ and 90+ options
CONTROLS	0–10V, DMX/DALI, ELV, and TRIAC/phase options by configuration
ENVIRONMENT	Indoor rated
APPROVALS	UL Listed Low Voltage Luminaire E480527; UL Recognized E467626; CE; RoHS
LIFETIME	50,000+ hours
WARRANTY	5 years, according to EOS policy
SUBSTRATE	Cast cell acrylic; thickness specified by application (0.125 in to 2.000 in+; 0.500 in standard for stone)
HOSPITAL/MRI SAFE DESIGN	Non-ferrous acrylic substrate, with remote power supply installed up to 30 ft from the application

Custom dimensions quoted on request. Full specification form and ordering codes available from EOS. Patent pending.

APPROVALS AND CERTIFICATIONS

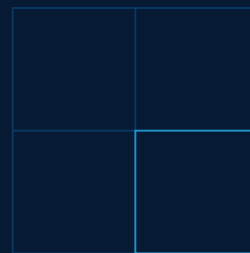


START A PROJECT

Ready for specification.

From surface selection to formal quote, EOS configures the system with you.

Share the surface, dimensions, CCT, control preference, and installation conditions. EOS will help configure the panel, driver package, and formal quote.



01

Send project dimensions and surface material.

Standard panels are 113.4 in × 75.5625 in (2880 × 1920 mm); custom dimensions are quoted on request.

02

Select CCT, CRI, and control requirements.

Static white from 2400K to 6000K, Tunable White (2400K–6000K, customizable), RGB, and RGBW, with CRI 80+ or 90+.

03

Request a formal quote and project coordination.

EOS coordinates driver selection, zoning, substrate thickness, and installation planning with your team.



LightSlab

Contact us

info@eoslight.com

eoslight.com

+1 310 616 5070

122 W. 26th St., Suite 503, New York, NY 10001



Scan for the full LightSlab™ specification (PDF).

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