Segment-Mapped Acoustic Star Ceiling Panel — Specification Sheet

1.2W	40	2	RGBW	12V	27mm
Per Panel (Full size panel)	Star Points	LED Pixels	Colour	Input	Low Profile Depth

PRODUCT FEATURES

- Full panel (1190 × 595 mm): 40 fibre optic star points driven by 2 LED pixels
- Half panels (1190 × 295 / 595 × 595 mm): 20 star points driven by 1 LED pixel
- Segment-mapped (2 sections of a full sized panel) RGBW effects: starfield, cascade, chase, wave, radial, and breathe patterns
- 150+ customisable scenes via mobile app with WiFi synchronisation across panels
- High-density polyester acoustic substrate — aw 0.25 (H), Sound Absorption Class E (ISO 11654)
- Connects via WiFi or wired LAN — integrates with LightEFX touchscreen hub for coordinated scene control
- Fire-tested panel substrate to AS ISO 9705-2003: no flashover, no ceiling ignition, no burning droplets

TECHNICAL SPECIFICATIONS

Light Source

Type	LED Fibre Optic
Star Points (full)	40 per panel
Star Points (half)	20 per panel
LED Pixels(full)	2 per panel
LED Pixels(half)	1 per panel
Colour	RGBW

Electrical

Power (full)	1.2W per panel
Input Voltage	12V DC
Connection	WiFi / Wired LAN
Hub Integration	LightEFX Touchscreen
Commissioning	App-driven
Scenes	150+ customisable

Acoustic

Material	High-density polyester
Surface	Matte acoustic
Absorption (aw)	0.25 (H)
Class	E (ISO 11654)
Test Method	ISO 354
Substrate	Batten on plaster

Panel

Material	High-density polyester
Finish	Black (standard)
Edge Profile	Straight or Bevelled edge
Operating Temp	−20°C to +40°C
Environment	Indoor
Mounting	Screw-fixed to battens

Dimensions

Full Panel	1190 × 595 × 27 mm
Half Panel (wide)	1190 × 295 × 27 mm
Half Panel (square)	595 × 595 × 27 mm
Depth	27 mm
PSU Cutout	Ø90 mm
Effects	Segment-mapped dynamic

Fire Performance

Test Standard	AS ISO 9705-2003
Flashover	None
Ceiling Ignition	None
Burning Droplets	None
Flame Spread	Within range
Note	Panel substrate only

ANIMATIONS + EFFECT FAMILIES

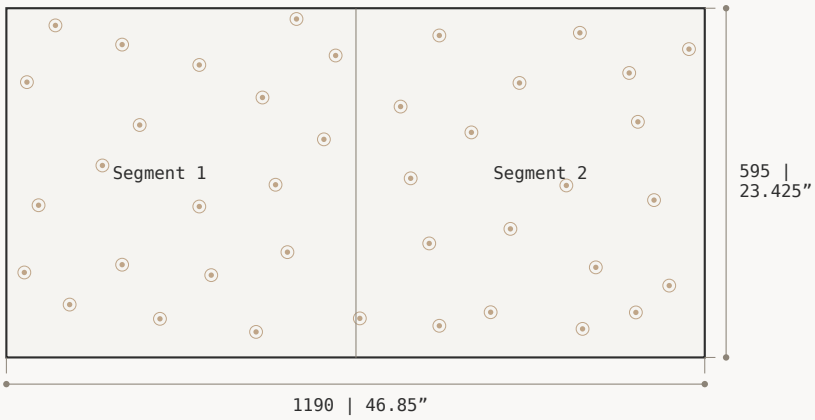
Segment-mapped RGBW effects engine with 150+ preset scenes and user-adjustable parameters including speed, brightness, colour palette, direction, fade rate, grouping, density, and synchronisation across panels.

- **Starfield**
  Randomised twinkle and shimmer
- **Cascade**
  Sequential colour flow across panels
- **Wave**
  Sinusoidal colour movement
- **Breathe**
  Smooth fade in/out across panels
- **Chase**
  Directional light sequence patterns
- **Radial**
  Centre-outward expanding patterns

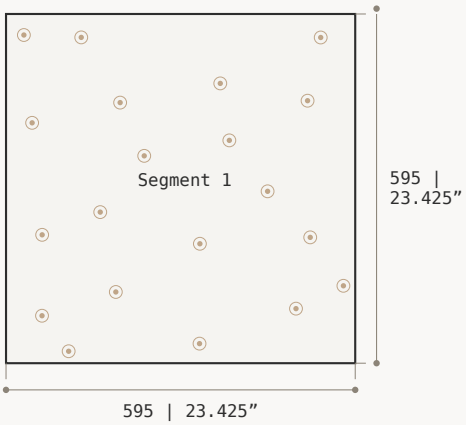
PANEL SIZES + STYLE

Panel	Length (mm)	Width(mm)	Depth(mm)	Star Points	LED Pixels	Power
Full	1190 | 46.85”	595 | 23.425”	27 | 1.06”	40	2	1.2W
Half (wide)	1190 | 46.85”	295 | 11.614”	27 | 1.06”	20	1	0.8W
Half (square)	595 | 23.425”	595 | 23.425”	27 | 1.06”	20	1	0.8W

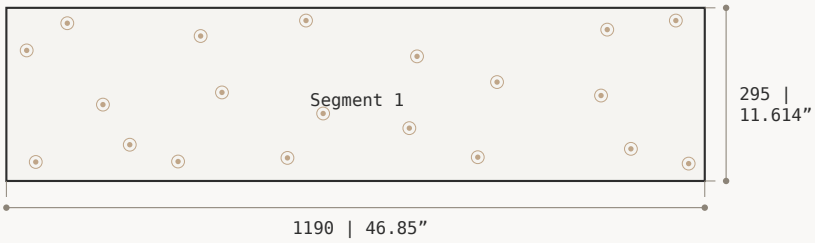
Full Panel – 40 star points | 2 LED pixels | 1.2W | 2 Segment mapped



Half Panel (square) – 20 star points | 1 LED pixel | 0.8W | 1 Segment mapped



Half Panel (wide) – 20 star points | 1 LED pixel | 0.8W | 1 Segment mapped



PANEL SIZES + STYLE

Straight Edge

Square-cut edges — panels butt flush with no visible gap

Joint detail:

Bevelled Edge

Chamfered top edges — panels meet with a defined V-groove shadow line

Joint detail:

Specifications are subject to change without notice. Fire test results apply to panel substrate only; fibre optics (PVC sleeve) and LED PCB were not included in test assembly. Actual performance may vary depending on installation conditions and room geometry.

PANEL COLOURS

Colour	Availability
Matte Black	Standard
Grey	Standard
Pageant Blue	Standard
Extended colour range	40 colours - custom orders