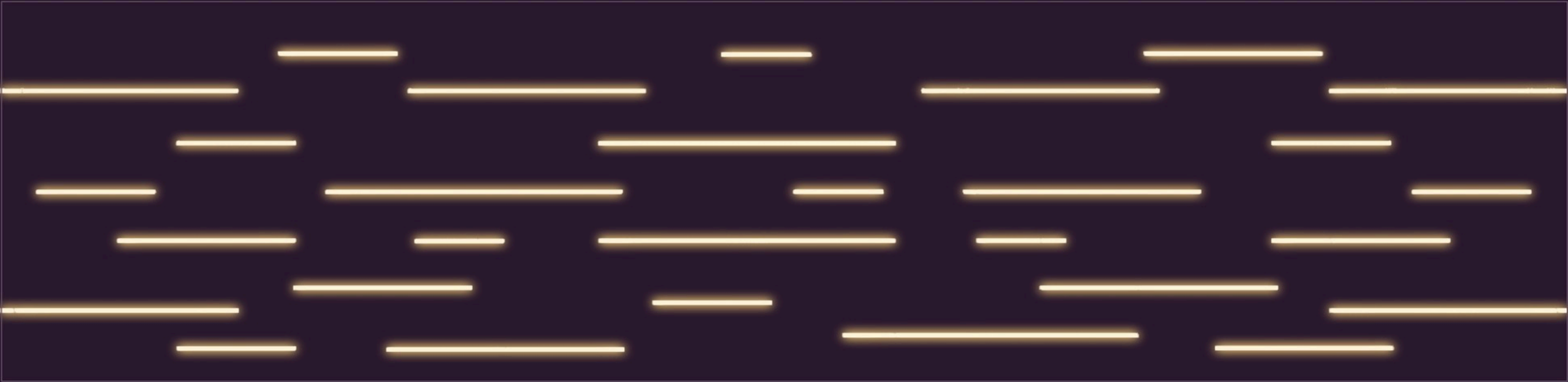


PROJECT PRESENTATION

Unity Group Swimming Pool, Delhi

A custom light-line pattern for an indoor pool ceiling, checked in DIALux ·
2025

Jainsons Lights · since 1978



Our light-line pattern for the pool ceiling (simplified from our marking plan)

The project at a glance

Project card

CLIENT	Unity Group
LOCATION	Unity Group Tower (Tower E), Delhi
SPACE	Indoor swimming pool
SCOPE	A custom light-line pattern for the pool ceiling, checked in DIALux
YEAR	2025
LIGHT USED	Eliante flexible silicon profile, IP65, 3000 K
WE STARTED FROM	A raw fluted wood-panel ceiling, a reference image of the look, and a rough hand-sketched dimension drawing
STATUS	Design delivered for site execution

161 m²

Indoor pool hall, modelled in DIALux

595 lux

Average at 0.8 m above the floor, against a target of 500 lux

546 lux

Average at floor level

0.50

Uniformity: the darkest point is half the average

4.0–5.25 m

Mounting heights, following the ceiling

IP65 · 3000 K

Weatherproof, warm white light lines

The story

The brief, our approach and the pattern (pages 3–5)

The proof

The DIALux model, the light levels, the light line and what we delivered (pages 6–10)

A raw ceiling and a picture of the look

The client gave us a raw ceiling and a picture of the look they wanted: thin lines of light set into the grooves of a fluted wood-panel ceiling, random but balanced. They asked us for two things.

1

Design the pattern

Lay out the light lines from scratch, so they follow the rhythm of the fluted panels without looking machine-made.

2

Check the light

Confirm, before ordering, that the profile light they planned would give the pool hall the light it needs.

The space

An indoor pool hall of about 161 m², a ceiling up to 5.25 m high, and the moist air of a poolside.



Photo: the client's fluted panel sample. The light lines sit in its grooves.

First the pattern, then the proof

We worked in two stages. The pattern had to look right, and the light had to add up.

1

Read the reference

We took the client's reference image and the rhythm of the fluted panels as the starting point.

2

Draw the pattern

Light lines in standard lengths from 0.75 m to 2.5 m, staggered so the ceiling looks random yet balanced.

3

Model the hall

We built the pool hall in DIALux, with its ceiling heights and a light file for the profile.

4

Fix the dark patches

Where the first spacing left darker patches, we moved lines and calculated again.

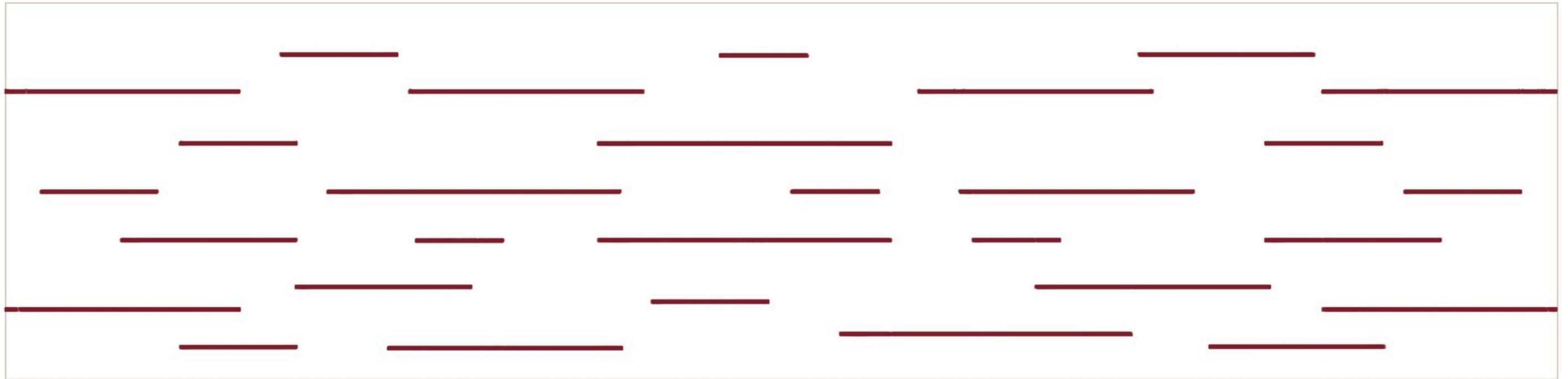
5

Drawings for site

A marking plan with the length and position of every line, ready for the site team.

The client kept the profile they had chosen. The pattern, and the proof that it works, were ours.

A pattern that looks random, and is not



Our marking plan for the main ceiling zone, about 10 m × 3 m, simplified for this document (dimensions removed). Each line is one run of light.

Follows the flutes

Every line runs along a groove of the fluted panels, so the light reads as part of the ceiling.

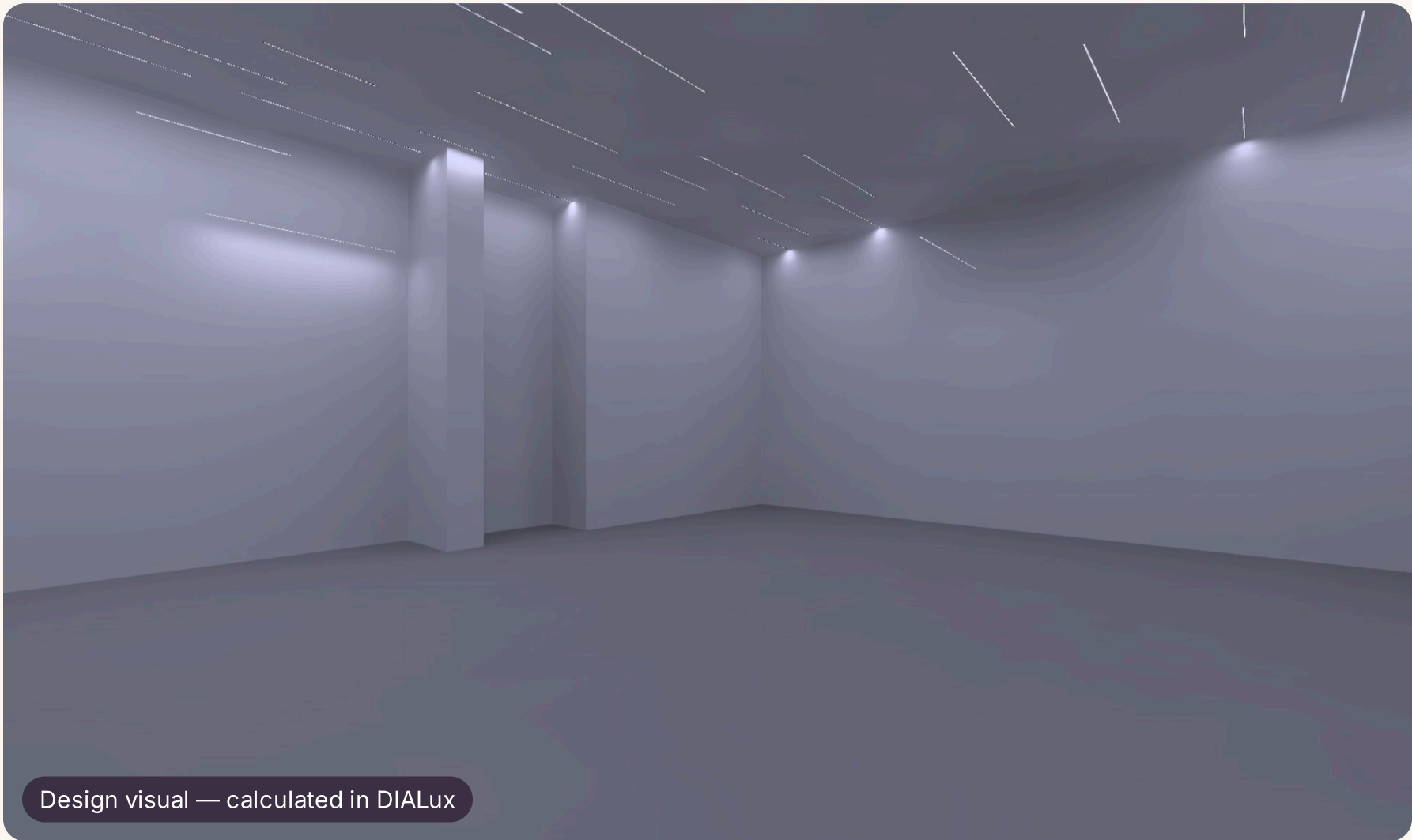
Standard lengths

Lines in a small set of standard lengths, from 0.75 m to 2.5 m, mixed and staggered along the grooves.

Balanced, not machine-made

The lines look random, but they are spread across the whole band, so the light stays balanced.

We built the pool hall in DIALux



The DIALux model of the pool hall, with the light lines in the ceiling. Plain surfaces; the finishes are not modelled.

How we modelled it

POOL HALL	About 161 m ²
CEILING	Up to 5.25 m high; light lines mounted between 4.0 and 5.25 m
MEASURED AT	0.8 m above the floor, and at floor level
SURFACES	Ceiling 70 %, walls 50 %, floor 20 % reflectance
ALLOWANCE	Maintenance factor 0.80, for dust and ageing
LIGHT DATA	A photometric light file for the profile

The light levels

595 lux

Average at 0.8 m above the floor (target 500 lux)

546 lux

Average at floor level

0.50

Uniformity, both at 0.8 m and at floor level

Where	Target (lux)	Average (lux)	Lowest (lux)	Highest (lux)	Uniformity (Uo)	
Pool hall, 0.8 m above the floor	500+	595	296	765	0.50	✓
Pool hall, floor level	—	546	273	676	0.50	

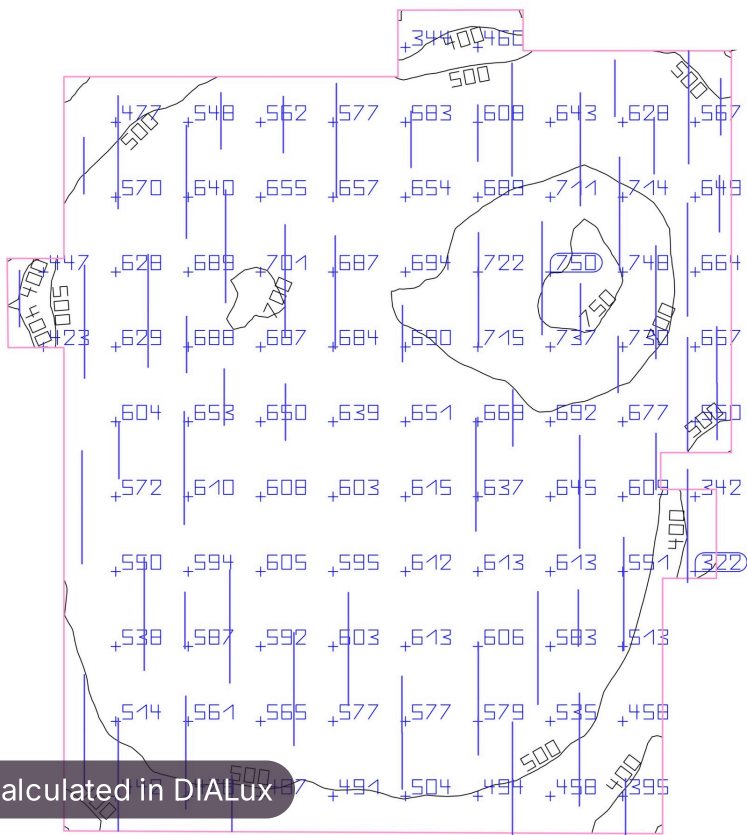
The average sits above the 500 lux target. The light is strongest in the middle of the hall, about 750 lux, and eases towards the walls and corners.

Calculated in DIALux, maintenance factor 0.80, October 2025. Uniformity Uo = lowest ÷ average.

Where the light falls

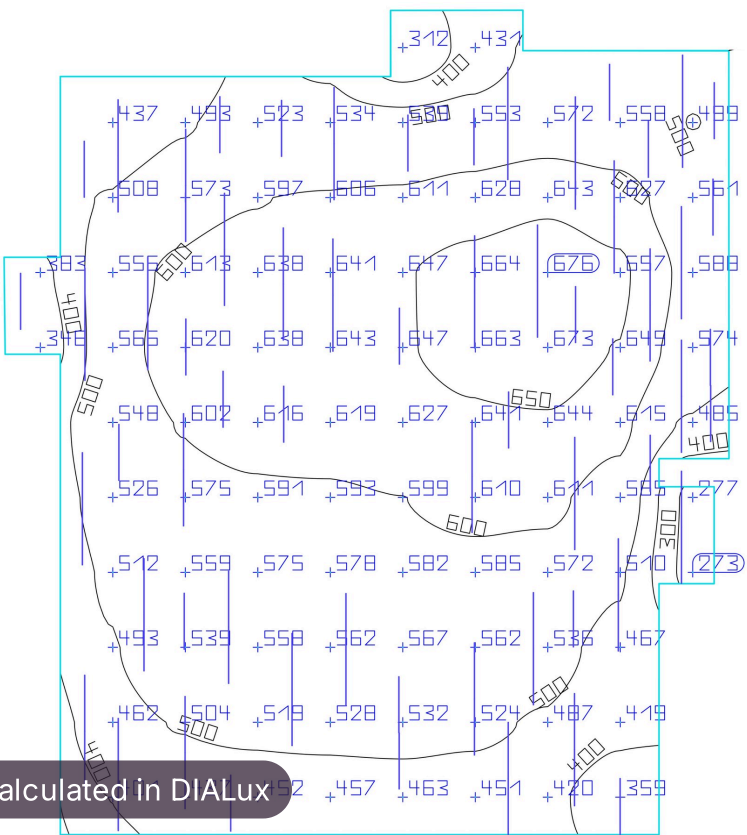
0.8 m above the floor

Average 595 lux · lowest 296 · highest 765



Floor level

Average 546 lux · lowest 273 · highest 676



Isolux plans from DIALux. The numbers are calculated lux at points across the hall; the curved lines join points of equal light. The thin straight lines are the light lines in the ceiling.

The light line we checked

The client had chosen the Eliante flexible silicon profile. We kept it, and checked it in the model.

IP65

Weatherproof, for the moist poolside air

3000 K

Warm white

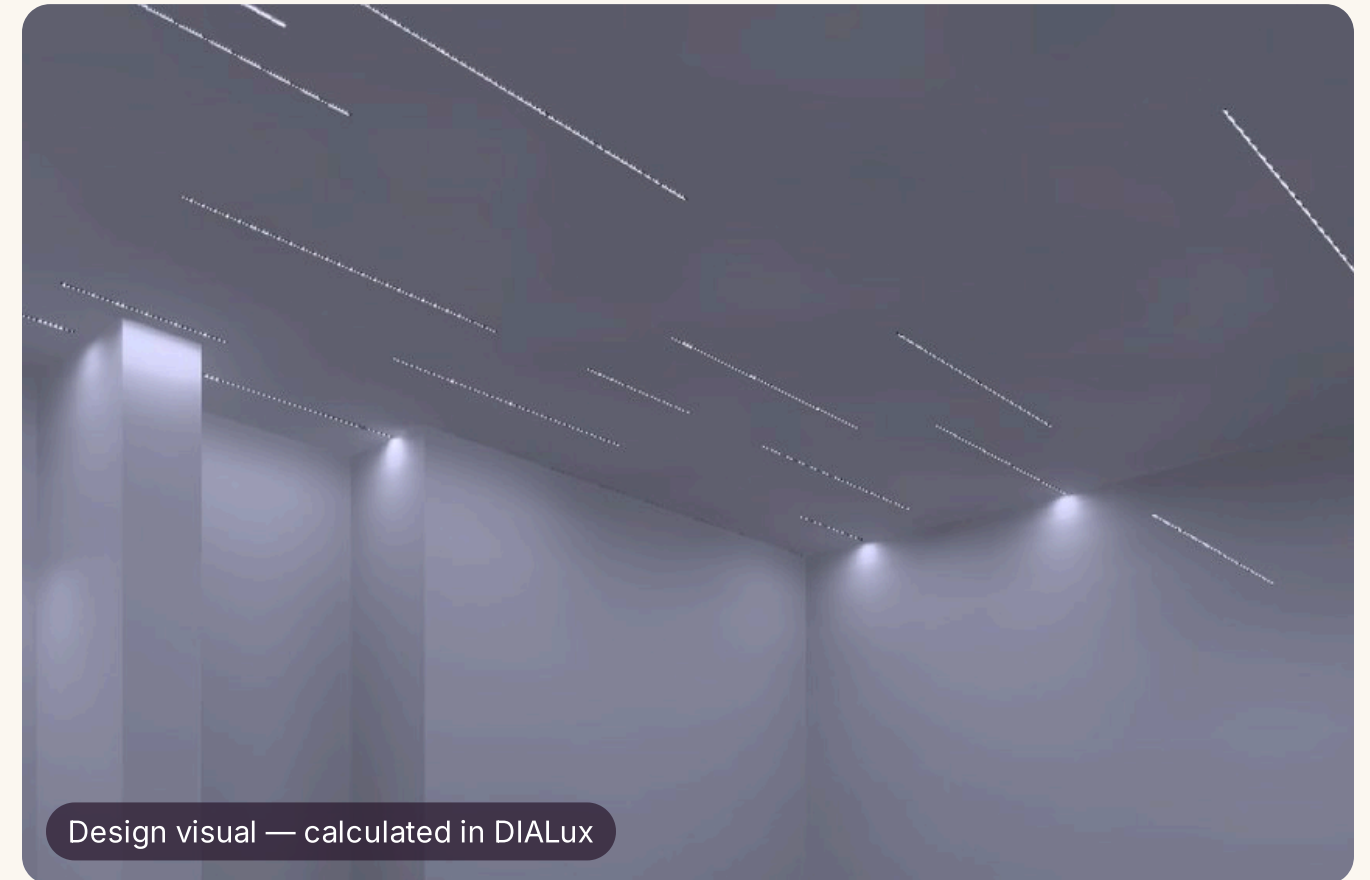
CRI 80

Colour rendering

24 V DC

Constant-voltage supply

Flush-mounted in the ceiling recesses, the profile sits within the wood panel. The lines read as part of the architecture, not as separate fittings.



The light lines in the DIALux model.

What we delivered

- ✓ A custom light-line pattern for the pool ceiling
- ✓ A marking plan with the length and position of every line
- ✓ A DIALux model and lux report for the pool hall
- ✓ AutoCAD layouts and 2D working drawings
- ✓ Line layouts for the corridor by the changing rooms, and for a light line that runs from the wall onto the ceiling
- ✓ Site reference documents

Have a fluted, perforated or unusual ceiling?

Send us a photo or drawing of your ceiling and a picture of the look you like, on WhatsApp. Our team will help you design the pattern and check the light levels before you order.

Message us on WhatsApp

WhatsApp +91 98991 88821

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