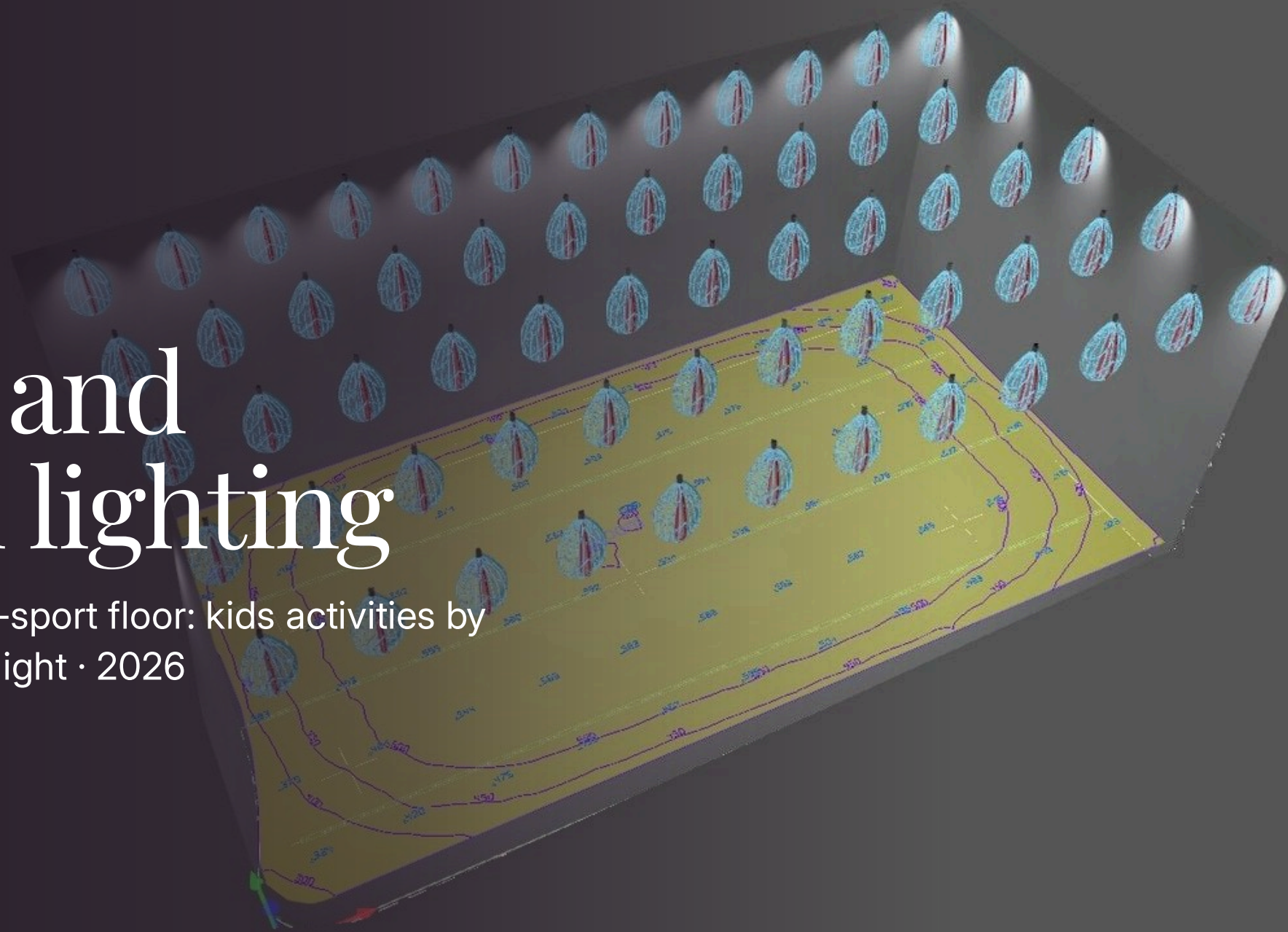


PROJECT PRESENTATION

Sportball Kids play and pickleball lighting

Lighting design for a multi-sport floor: kids activities by
day, a pickleball court by night · 2026

Jainsons Lights · since 1978



Design visual — calculated in DIALux

The project at a glance

Project card

CLIENT	Sportball, a kids sports-activity chain from Canada
FACILITY	A new multi-use sports floor
SCOPE	Lighting design for the kids play areas, reception, corridor and support rooms on two floors, and a double-height pickleball court
YEAR	2026
STATUS	Design completed before fit-out started
WE STARTED FROM	The architect's drawings and the interior designer's original lighting plan

The starting point

The brief and what our check of the original plan showed (pages 3–4)

289 →
511 lx

Average on the pickleball court, against a 500 lx target

0.26 → 0.51

Evenness (Uo) on the court

333 →
543 lx

Average in the ground-floor kids play area, target 500 lx

0.25 → 0.53

Evenness in the kids play area, target 0.50

6.3 m

Clear height over the court

3–4
rounds

From the original plan to the final design

Our redesign

Our approach, the court, the play areas and every room, before and after (pages 5–9)

Two programmes, one floor

Sportball runs kids sports-activity centres across Canada and overseas markets. This facility was built as a multi-use sports floor: high-energy kids programmes during the day, and a paddle and pickleball court at night.

1 By day: kids activity

Play areas on both floors that need bright, even light, at a level that stays gentle on a child's eye.

2 By night: pickleball

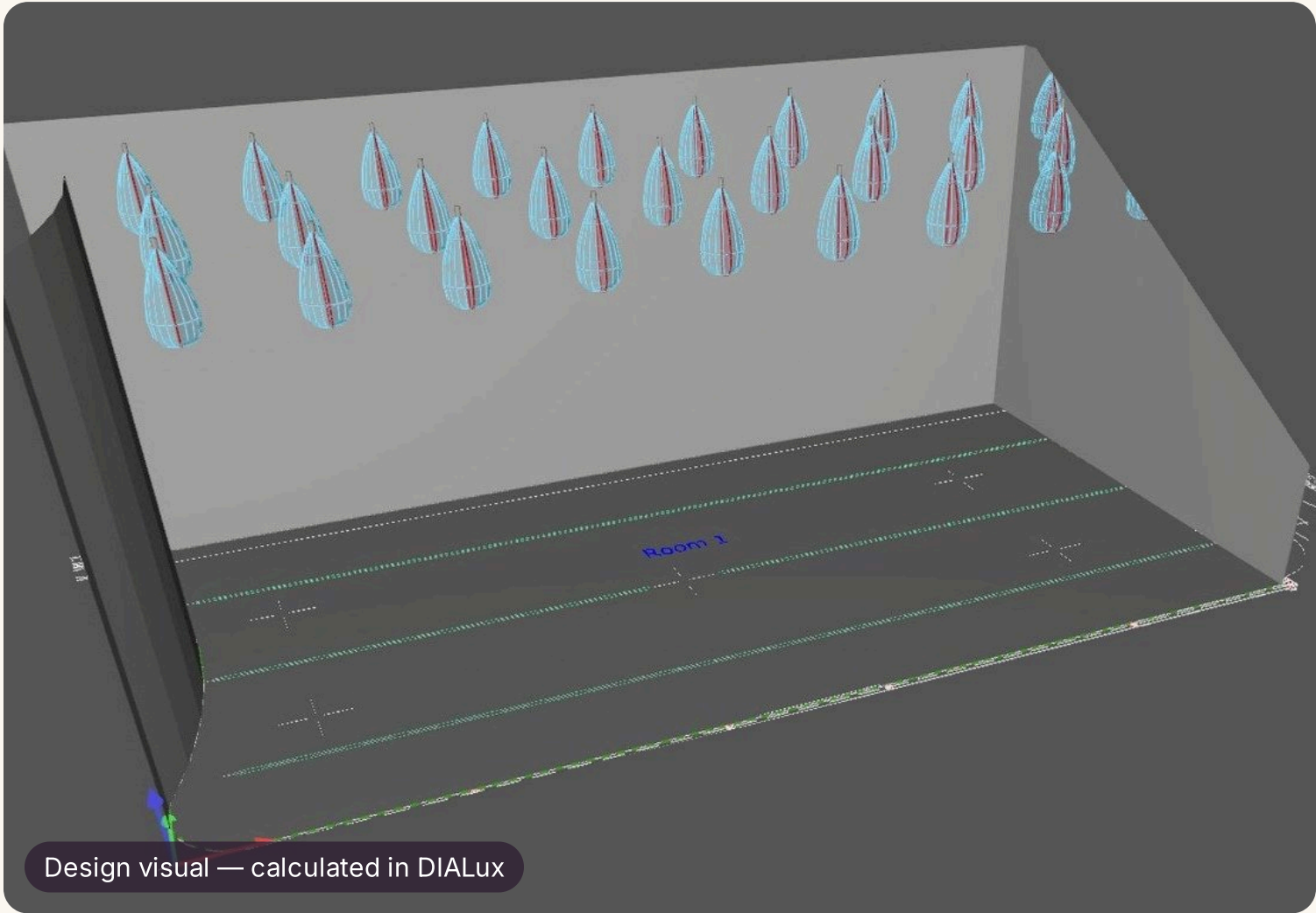
A double-height court, about 15.9 m by 8.3 m and 6.3 m clear, that needs even light across the whole playing surface.

3 Around them

A reception, a corridor beside the court, washrooms, a kitchen and prep area, and a seating counter that overlooks the court.

One ceiling, two very different programmes, running off the same lights.

The original plan, checked in DIALux



The original lighting plan for the court, in our DIALux model.

The interior designer's lighting plan worked at a glance. When we ran it through DIALux, it showed sparse coverage on the court and big drops in light between the fittings.

What the check showed

Space	Target	Calculated
Pickleball court	500 lx	289 lx
Ground-floor kids play area	500 lx	333 lx
First-floor play area	500 lx	321 lx
Reception	400 lx	326 lx
First floor, top of the stairs	350 lx	236 lx

Average light, original plan. Evenness (Uo) was low as well: 0.26 on the court, 0.25 in the kids play area and 0.16 in the first-floor play area.

How we redesigned it

1 Even light first

We set the original layout aside and planned each room for even light across the floor, so there are no dark patches between lights.

2 The right level for each room

Each room was calculated to its own target: 500 lx for the play areas and the court, lower levels for the corridor and support rooms.

3 Gentle on young eyes

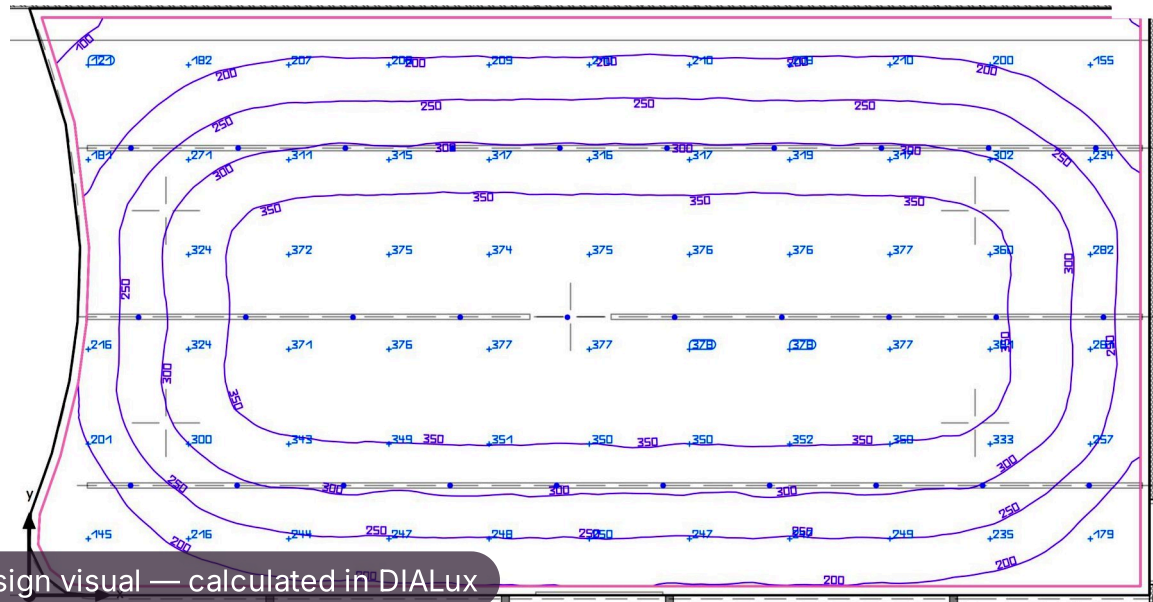
A comfortable level for children. The reception, corridor and washrooms were set separately, so moving between zones stays easy on the eye.

How we calculated

COURT REFERENCE	DIALux sports and recreation profile (table tennis, social recreation level): 500 lx average and evenness 0.50 in our final calculation
ROOM SURFACES	Reflectance: ceiling 70 %, walls 50 %, floor 20 %
MAINTENANCE FACTOR	0.80, so the results allow for dirt and ageing over time
DESIGN ROUNDS	Three to four, from the original plan to the final design

E_m = average light · U_o = lowest point ÷ average, how even the light is (1.0 = perfectly even)

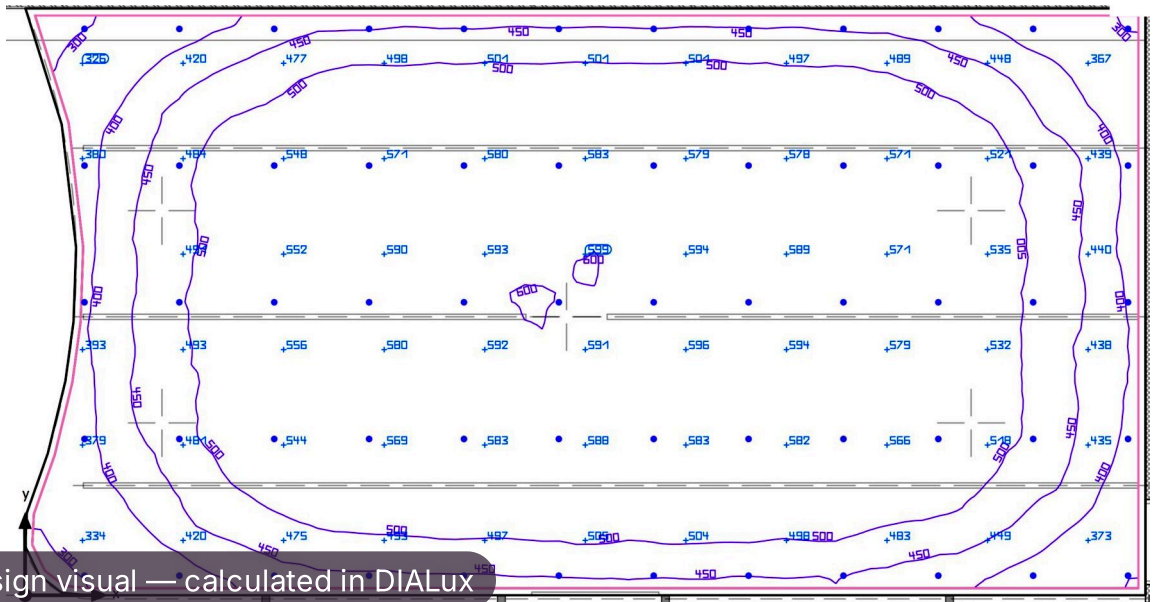
The pickleball court, before and after



Original plan

It never reaches 500 lx anywhere: about 380 lx at best in the middle, about 180–250 lx along the sides and down to about 120 lx in the corners.

289 → 511 lx
average, target 500 lx



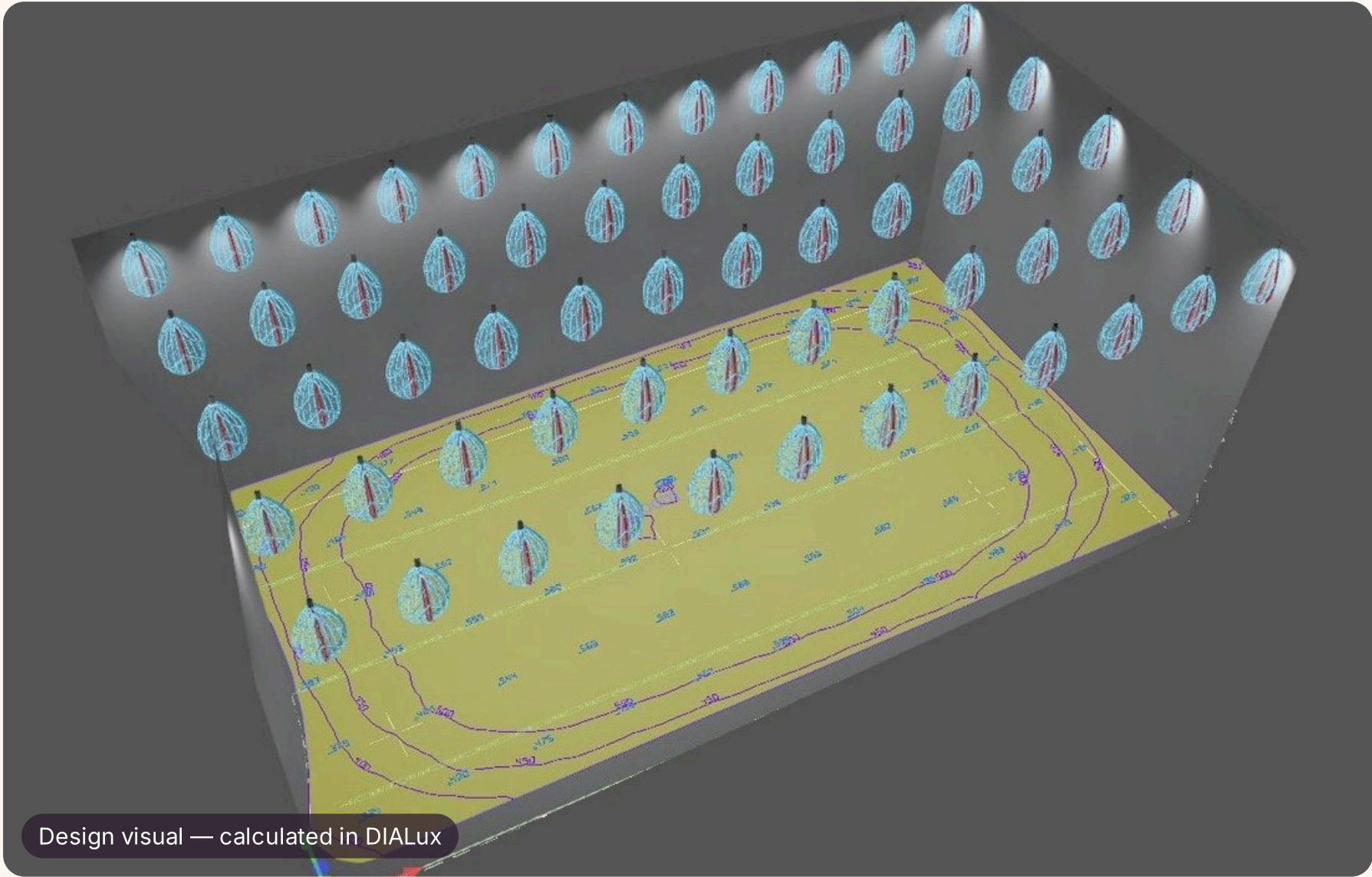
Our redesign

The 500 lx line now encloses most of the court: about 540–600 lx in the middle and about 380–500 lx towards the edges.

0.26 → 0.51
evenness, Uo, target 0.50

Lines join points of equal light, in lux. Original calculated at 0.92 m above the court, redesign at 0.60 m.

The court: an even grid from 6.3 m up



Our final court design in DIALux: the blue shapes show how each light spreads, and the lines on the court are lux contours.

We re-laid the court as a dense, even grid of spots, so the light reaches the full playing surface, not just the middle.

6.3 m
mounting height

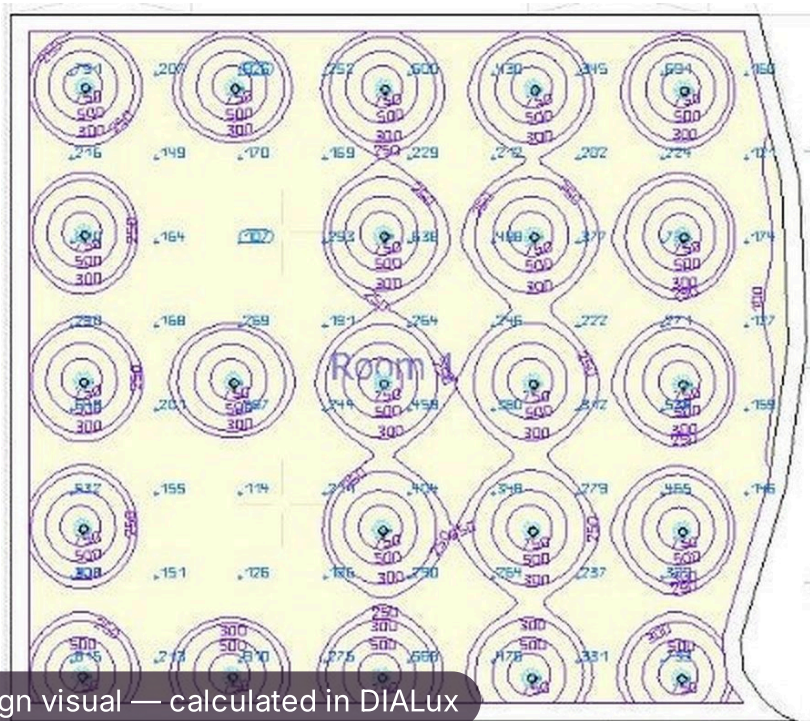
3500 K
neutral-warm white

CRI 92
colour rendering

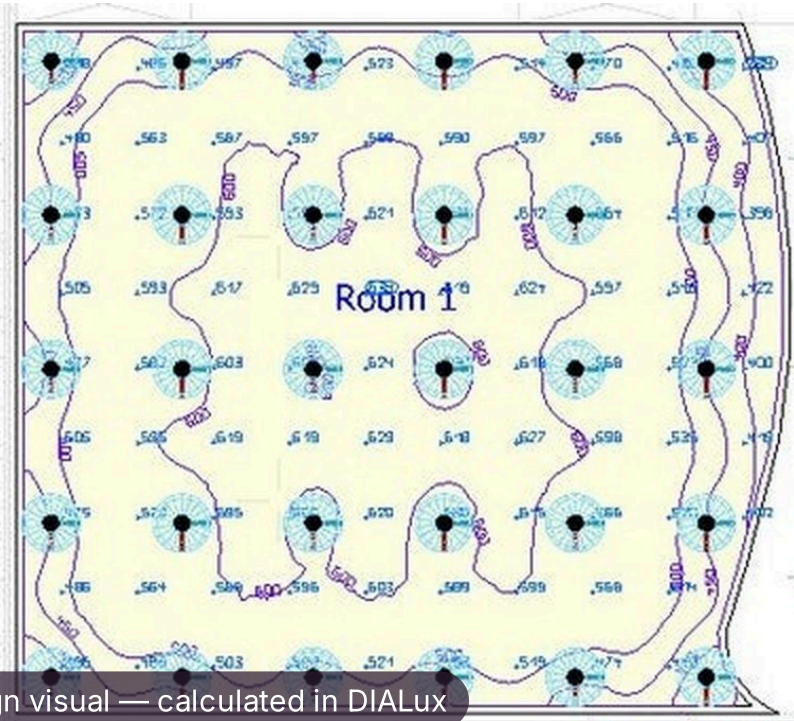
Elliptical
wide-flood beam

Light colour and beam from our final calculation report.

The kids play area, before and after



Original plan
Bright pools of 750 lx and more under each light, with dark gaps between them. Lowest point: 82 lx.



Our redesign
One even field, mostly about 500–630 lx across the floor. Lowest point: 286 lx.

333 → 543 lx
average, target 500 lx

0.25 → 0.53
evenness, target 0.50

Upstairs, the first-floor play area went from 321 to 504 lx, and its evenness from 0.16 to 0.50.

Ground-floor kids play area. Original calculated at 0.80 m, redesign at floor level (0.00 m).

Every room, before and after

Space	Target (lx)	Original (lx)	Redesign (lx)	Evenness, Uo	Target met
GROUND FLOOR					
Kids play area	500	333	543	0.25 → 0.53	✓
Reception	400	326	411	0.10 → 0.48	✓
Corridor beside the court	200	204	218	0.19 → 0.55	✓
Room 4, beside the washrooms	350	366	470	0.36 → 0.44	✓
Washrooms	200	303	382	0.30 → 0.30	✓
FIRST FLOOR					
Play area	500	321	504	0.16 → 0.50	✓
Top of the stairs	350	236	564	0.11 → 0.34	✓
Seating counter over the court	300	575	525	0.081 → 0.061	✓
Kitchen and prep area	350	426	426	0.47 → 0.45	✓
Room 5	200	325	325	0.33 → 0.33	✓
COURT					
Pickleball court	500	289	511	0.26 → 0.51	✓

Average light on each room's working plane. The tick means the redesign meets the room's light target. The corridor target was raised from 150 to 200 lx for the redesign. The seating counter meets its light target, but its evenness (0.061) stays below the 0.40 we aimed for. Each version uses its own working-plane heights: court 0.92 m → 0.60 m, kids play area 0.80 m → floor level, reception 0.76 m → 1.00 m.

What we delivered

- ✓ A DIALux check of the original lighting plan, room by room
- ✓ A redesigned lighting layout for both floors and the court, in AutoCAD, with light positions and aiming arrows
- ✓ Lux results for every zone, against each room's target
- ✓ 3D DIALux views of the court
- ✓ One combined report, from the original plan to the final design
- ✓ All of it before fit-out, while ceiling positions and electrical points could still move at low cost

Planning a sports or kids activity space?

Send us your floor plan or AutoCAD drawing and your ceiling heights on WhatsApp. Our team will help you with the lighting design and check every zone in DIALux before fit-out.

Message us on WhatsApp

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