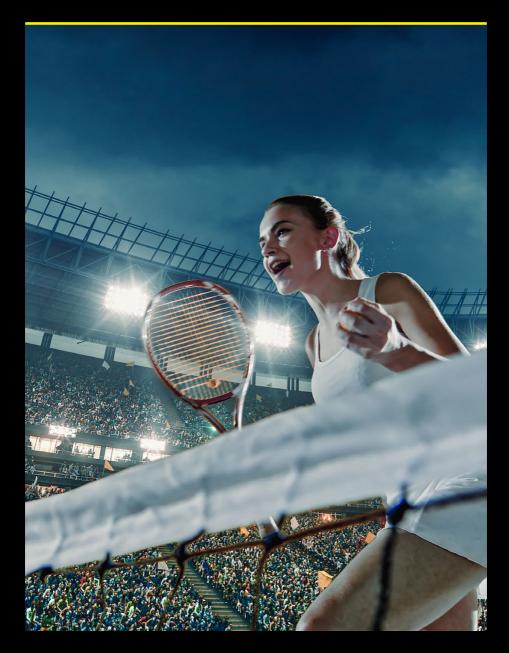
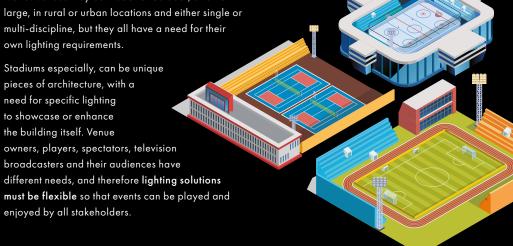
LEDiL



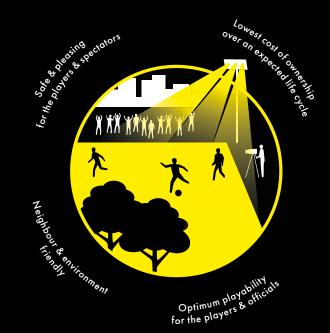
Sports lighting in a nutshell

There is a huge variety in the size, standard and location of sporting venues and stadiums around the world. Venues may be indoor or outdoor, small or large, in rural or urban locations and either single or multi-discipline, but they all have a need for their

Stadiums especially, can be unique pieces of architecture, with a need for specific lighting to showcase or enhance the building itself. Venue owners, players, spectators, television broadcasters and their audiences have



Good sports lighting



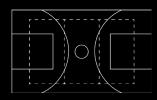
Why LEDiL?

All our optics for sports venues and stadiums fully comply with current standards set by different standards authorities. Our modular optic design makes mixing and replacing different beam types inside one luminaire easy, allowing the same light engine to be used for multiple purposes.

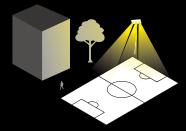
Sports venue lighting luminaires must perform well in all conditions, and our high-quality optics and IP-capable products ensure a long product lifetime, even in the most extreme environments.

Make our optics the heart of your luminaire to optimise cost, efficacy and light distribution with great results.

Things to consider in sports lighting



The layout(s) of sports areas



Adjacent areas with visual links



Primary and additional uses



The volume(s) of the field(s) of play



Lighting requirements

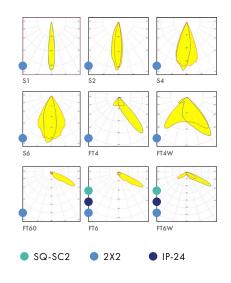


SPORT-2X2

Low glare optics for all types of sports lighting

- Allows **optimal lighting conditions** for both players and spectators that meet standards and requirements of different sports
- Symmetrical and asymmetrical beams designed for low glare sports lighting floodlights
- Enables the creation of energy efficient and neighbourhood friendly lighting installations

Compatibility: Optimised for HP 3535 and compatible with up to 5050 size flat LED packages.



SPORT-2X2 application examples

Football field

6 poles

SPORT-2X2-S1 Optics: Efficiency with protective glass: 87 % 30 m 9430 klm 74 234 W

Led outputs

1200 lm

1906 klm (1588 LEDs) 1570 klm (1308 LEDs)

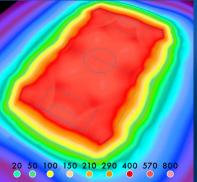
Number of optics

Corner pole: 397 pcs Middle pole: 327 pcs 2242 pcs

Results from calculation grid

500 lx Average: Min: 628 lx Max: Min/Average: 0.74 Upward light ratio (ULR): 1 % GR Max (CIE112): 49 Source intensity at 140 m: 0.67 kcd (eligible for post-curfew E2 (CIE 1917, IESNA 1999)





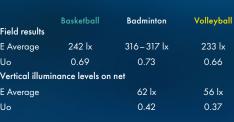
Multi-purpose indoor sports facility

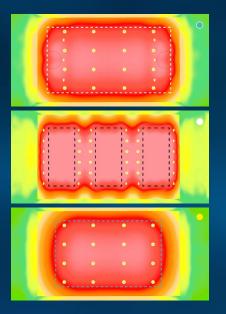
3 lighting scenes to meet 3 different sport requirements with 1 setup

Number of luminaires:

58 pcs SPORT-2X2-S4 DAISY-7X1-W 16 pcs Mounting height: 10 m Room size: 19 x 32 m Total load*: 1344 - 1585 W Power consumption*: 2.2 - 2.6 W/m²

	Basketball	Badminton	Volleyball
Field results			
E Average	242 lx	316-317 lx	233 lx
Uo	0.69	0.73	0.66
Vertical illuminance levels on net			
E Average		62 lx	56 lx
Uo		0.42	0.37





^{*}Based on individual lighting scenes



SPORT-IP-24

Ingress protected lens array for sport lighting with flat 5050 size LED packages

- Allows optimal lighting conditions for both players and spectators
- Boosts luminaire efficiency by eliminating the need for a protective plate
- Asymmetrical beams designed for **highly efficient** sports lighting floodlights
- Enables the creation of energy efficient, dark-sky friendly lighting installations

Compatibility: Optimised for flat high power 5050 size LED packages such as:

- CREE J/JR5050
- LUMILEDS LUXEON
- 5050 square - NICHIA 48x series
- OSRAM DURIS S8
- OSRAM OSCONIQ S 5050
- SAMSUNG LH502C
- SEOUL DC 5050 6V

SPORT-SQ-SC2

Optimised for automated assembly, designed for versatility and efficiency

- Fast and easy mounting using SOLDER-CLIP-2 suitable for automated assembly
- Versatile single led platform create flexible luminaire designs
- Maximum lumen output with 7070 LED packages

Compatibility: Compatible with up to 7070 size flat LED packages





JENNY

35 x 35 mm single lenses and 8X1 arrays for up to 7070 size LED packages. Made from silicone.













STELLA

Ø90 mm ingress protected silicone lenses for up to 30 mm LES size COBs.



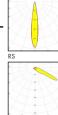






2X2 (STRADA & HB)

50 x 50 mm modular product families for up to 5050 size LED packages.













2X2MXS (STRADA & HB)

90 x 90 mm ingress protected silicone arrays for up to 9 mm COBs.







IP-2X6 (STRADA & HB)

173 x 71.4 mm ingress protected arrays for up to 5050 size LED packages.









IP-24 (STRADA & HB)

173 x 71.4 mm ingress protected arrays for 5050 size LED packages.

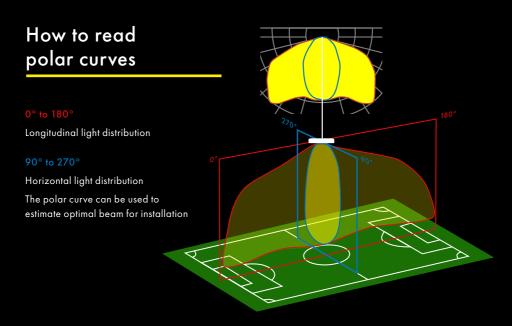












Technical support

- Simulations to show optic performance in real applications
- Guides and tips for installations
- Thermal analysis for luminaire designs

Contact our tech support experts:

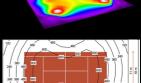
Global

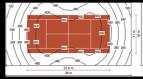
tech.support@ledil.com

North America

tech.support.us@ledil.com









www.ledil.com

Ledil Oy (Headquarters) Joensuunkatu 7 FI-24100 SALO Finland

Ledil Inc. 228 West Page Street Suite D Sycamore IL 60178 USA

Ledil Optics Technology (Shenzhen) Ltd. #405, Block B, ShenZhen Casic Motor Building, No.7 LangShan #2 Road, Hi-Tech Ind. Park(N.), Nanshan District, Shenzhen, 518057

The information contained herein is the property of Ledil Oy, Joensuunkatu 7, FI-24100 SALO, Finland, and is subject to change without prior notice. Please visit www.ledil.com for additional information, such as the latest photometric files, 3D mechanical models, and application notes relating to handling, gluing and taping. LEDiL products are IPR protected.

P.R.China