



# GAGGIONE

SHAPING YOUR LIGHT

## HIGHLIGHTS

### SPORT RANGE

[www.optic-gaggione.com](http://www.optic-gaggione.com)



# GAGGIONE

## Who are we

**GAGGIONE, founded in 1948 and based in Montréal-la-Cluse, France, excels in designing, developing, and manufacturing high-quality optical solutions.**

Pioneers in the field, GAGGIONE introduced the first collimator for the Barracuda LED in 1996 and continues to produce **innovative optical parts and systems for LED and light applications.** We apply our extensive experience and resources to provide comprehensive **design, development and manufacturing capabilities** for the production of **custom-made optical parts** and systems.

**Our standard optics range reflects decades of expertise** in custom optical solutions, adapting to evolving market demands while helping customers shape light effectively.



180 Employees



72% Export



76 Years of  
experience



Made in  
France





# AVIKA RANGE

SPORT - 2X2

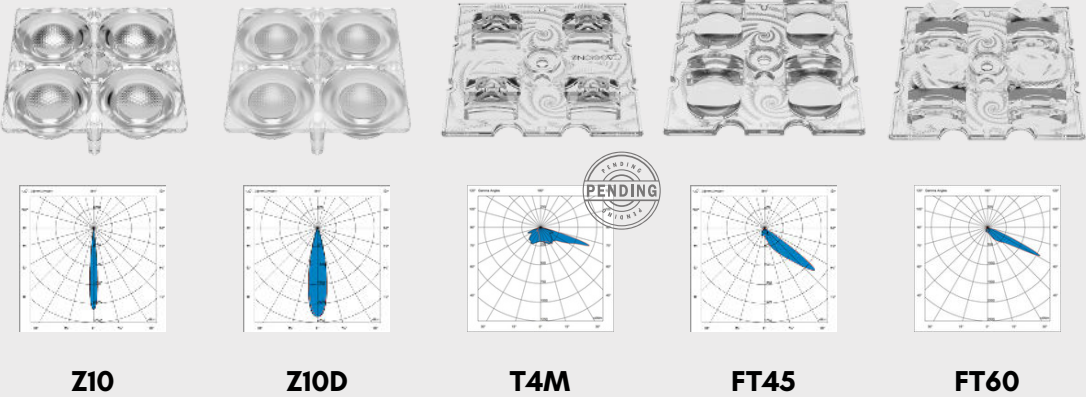
## AVIKA2X25050 Sports Lighting Optics Engineered Precision for Sports Fields

Optimized for 3535 and 5050 packages, delivering high-performance and energy-efficient illumination across diverse outdoor sporting venues.

Our **Asymmetric Optical Range** : FT45, FT60, and T4M have been specifically designed to meet the needs of professional arenas, community fields, and multi-use sports facilities.

Each optic type provides a tailored light distribution pattern that enhances uniformity, visibility, and comfort, while minimizing glare and light pollution.

**Amber-Yellow and Amber-Orange** colours available, that allows AVIKA SPORT optics to be used in areas requiring nocturnal wildlife friendly lighting or at historical sites, shipping yards and ports.





# AVIKA Z10

**Developed for Spot, Sports and Floodlight applications**

**(Dimensions: 50mm x 50mm, H: 13.9mm)**

LED Type: Philips Fortimo DAG5 (3535)

FWHM 10.3 °

FWTM 17 °

Peak intensity 26.8 cd/lm

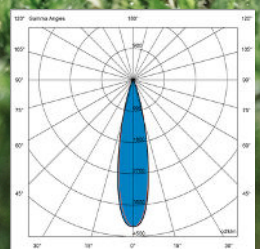
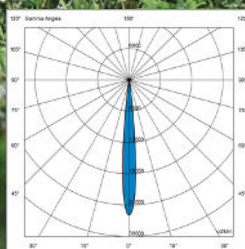
LED Type: Lumileds 5050

FWHM: 19.6 °

FWTM: 31.5 °

Peak Intensity: 8.0 cd/lm

Efficiency: +94%



# AVIKA T4M

## Asymmetric, Rectangular Forward-Throw Beam

(Ideal for multi-purpose and rectangular-area floodlighting)

### Uniform Light for Wide/Large Area Lighting

The T4M optic delivers a **broad forward throw rectangular beam**, designed for wide/large-area illumination such as sports complexes, parking zones, or multi-sport fields.

It ensures uniform horizontal distribution and balanced brightness across large rectangular surfaces.

### Application examples:

- Multi-purpose sports fields
- School and community sports complexes
- Large recreational zones
- Parking light (malls, schools)
- Wide area lighting (post top luminaires, achieve Type V light distribution by rotating optics)

### Key Features:

- Rectangular beam for even coverage across wide areas.
- Reduces fixture count by maximizing coverage per luminaire.
- High-efficiency asymmetric control.
- Glare control (G4) maintained across wide distribution angles.
- Optional backlight MASK accessories to prevent light trespass and support dark-sky initiatives.





# AVIKA FT60

## Narrow, Asymmetric 60° Forward-Throw Beam

(Ideal for large football and rugby fields)

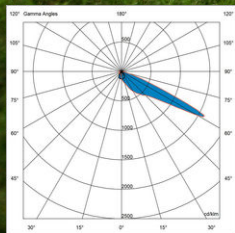
Precision Illumination for Large-Scale Fields

The FT60 beam delivers powerful forward throw projection with a controlled asymmetric pattern, ideal for 108 m × 72 m fields using 6–8 poles.

Forward throw distribution ensures uniform coverage and glare control (G4 rating) while minimizing backlight and upward spill light.

### Key Features:

- Long forward-throw reach for large-area coverage.
- Excellent uniformity and visual comfort.
- Optional backlight MASK accessories to prevent light trespass and support dark-sky initiatives.
- Asymmetric beam reduces skyglow, discomfort glare and surrounding light pollution.
- Optimized for high-mount installations (18–25 m).
- Beam type is also ideal for tunnel lighting in both pro- and counter beam setups.



# AVIKA FT45

## Asymmetric 45° Forward-Throw Beam

(Ideal for smaller arenas, training grounds, and tennis courts)

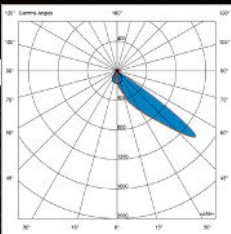
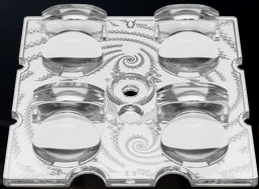
### Balanced Power and Precision

The FT45 optic provides a medium-range asymmetric distribution, perfect for smaller sports venues where control and comfort are paramount.

It offers high vertical illuminance for ball tracking and excellent uniformity with fewer fittings.

### Application examples:

Tennis courts  
Training fields  
Community arenas  
Leisure parks



### Key Features:

- Optimized for small to mid-sized sports fields and tennis courts.
- Ideal mounting height: 12-18 m.
- Precise beam cut-off minimizes glare and light trespass.
- G4 glare-rated for player and spectator comfort.
- Optional backlight MASK accessories to prevent light trespass and support dark-sky initiatives.





# Why to choose Asymmetric beams vs Symmetrical beams in Sports lighting?



- **Optimized Performance** – Light directed forward and downward ensures maximum on-field brightness and uniformity with minimal light loss.
- **Reduced Glare** – Asymmetric optics control light angles to avoid direct glare into spectator's eyes while symmetric optics with tilted fixtures makes the spectator's eyes and sky more exposed and the fixture more visible.
- **Minimized Light Pollution** – Optional backlight MASK available to eliminate light trespass and to support dark-sky initiative.
- **Energy Savings** – Well optimized asymmetric beam provides the light only where it is needed resulting energy savings (Less LEDS or Less luminaires).
- **Visual Comfort and Compliance** – G4 glare rating supports professional and broadcast-level lighting quality.

## Amber-Yellow and Amber-Orange AVIKA

- The new colour variants make AVIKA optics suitable for locations that require wildlife-friendly nighttime lighting, sensitive historical sites, and areas with heavy fog or mist, such as docks, where improved visibility is essential.

- **For Amber yellow :**

- Converts 4000K LED to 3000K
- Beautiful traditional amber yellow colour
- Less than 1.25% of light emitted @ 500nm
- CRI 68, LOR 85%

- **For Amber orange :**

- Converts 3000K LED to <1900K
- Beautiful traditional amber-orange colour
- Transmits 85% of light between 560nm – 700nm (less than 0.5% of blue light)
- CRI 62, LOR 72%



**Accessories :**

Backlight blocking mask

- Eliminate light behind the pole.
- Ideal for sports lighting and next to building installations.
- Compatible for backlight regulated areas.
- Enables environmentally better lighting with less light pollution.
- Dedicated design for FT45 and FT60 versions.



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