

# PEGASO

SQUARE



ROUND



LOUVRE



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khatod.com

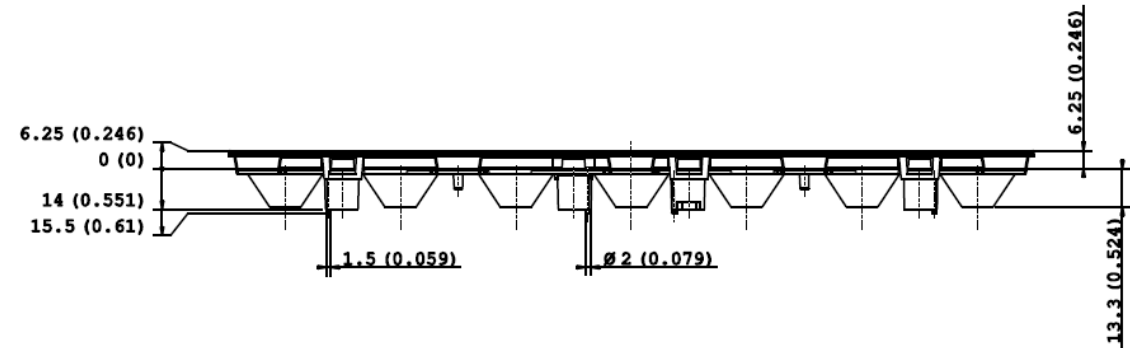
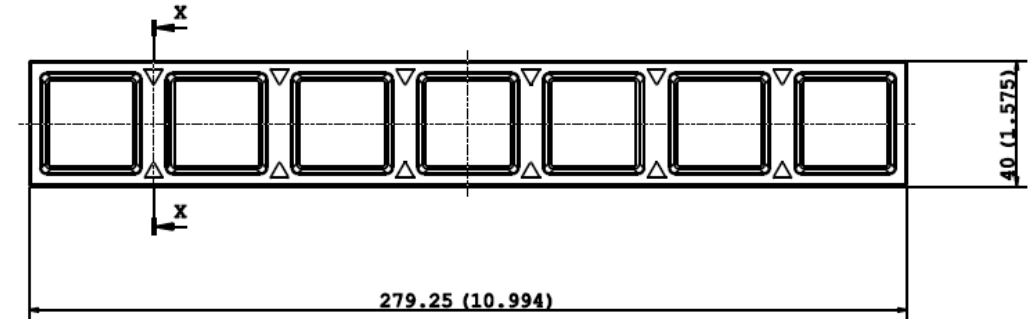
# PEGASO: LINEAR OPTICS ENGINEERED FOR VISUAL COMFORT

## PRODUCT OVERVIEW

- 279.25 mm x 40.00 mm x H 20.25 mm.
- Built as a cluster of 7 TIR lenses.
- 3 Beam Angle Types: Wide, Extra Wide and Ultra-Wide.
- Designed to deliver outstanding visual comfort in offices, supermarkets, museums, and hospitals.

## Why PEGASO

- **Outstanding visual comfort:** UGR below 19 in all typical office configurations — down to 16 or even 14, depending on lumen package and shade.
- **A hybrid concept:** the large emitting surface of a “Bright Light” combined with the invisible direct light source of a “Dark Light”.
- **3 interchangeable shade types:** Square Shade, Round Shade, and Louvre — for both aesthetic and functional differentiation, including a unique built-in hexagonal louver.
- Real tunable white capability and maximum light uniformity.
- **Late-stage customization:** differentiate your luminaire design while keeping all standard system components in use.
- Field replaceability by design.
- European stock and short delivery times.



## The System at a Glance

- Compatible with **Zhaga Book 7** (category L28W2) LED modules.
- Designed for mid-power **2835** LEDs in clusters of 4 — 7 clusters per PCB, for a total of 28 LEDs.
- Also compatible with 5050 LEDs (single CCT) for higher efficacies.
- **Tunable white:** warm and cool LEDs can be mixed within each cluster, in 3 possible arrangements.
- **Easy maintenance:** the shade detaches and the optical module unscrews, so the PCB can be replaced in case of failure.
- **Housing:** standard aluminum channel; the PCB is fixed with M3 screws passing through the lens itself.
- **Materials:** optical-grade PMMA for the optic, PC/ABS for the shade.
- **Certifications:** UL94 HB and UL94 746C (f1) for the optic; V0 for the shade.

## UGR Thresholds at a Glance

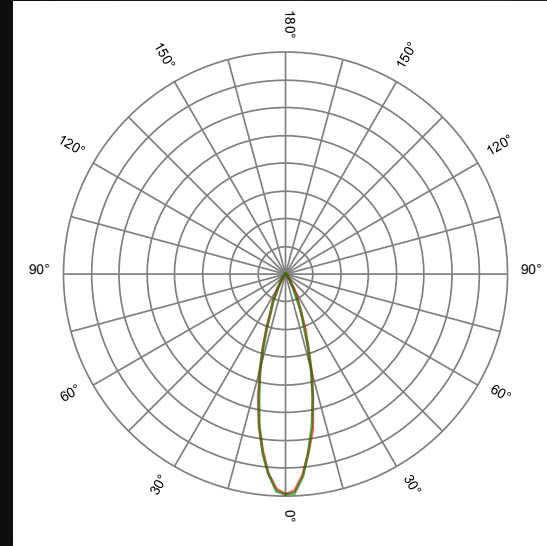
Three main thresholds to keep in mind (per EN 12464-1):

- **UGR < 16** — sensitive areas: drawing rooms in workspaces, hospital lighting, museums.
- **UGR < 19** — office lighting.
- **UGR < 22** — industrial spaces (like warehouses) and commercial spaces (shops and malls).

# PEGASO OPTICS: BEAM ANGLE DEEP DIVE

In the charts below, luminous flux is intended as output — the flux exiting the finished luminaire — calculated on a 4 ft (1,120 mm) unit.

## PEGASO/WI — 40° Beam



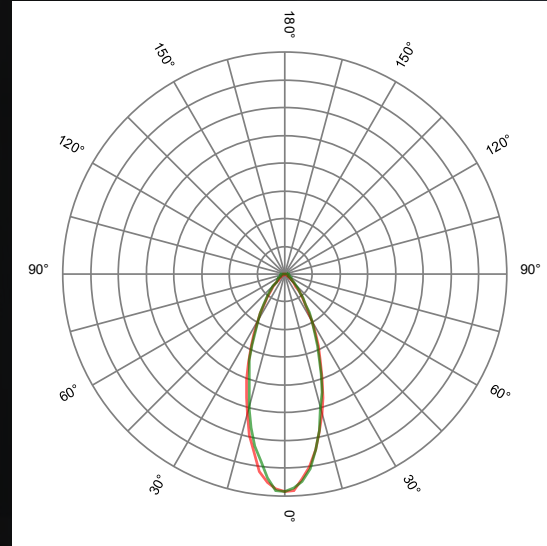
UGR performance — PEGASO/WI with the 3 shades



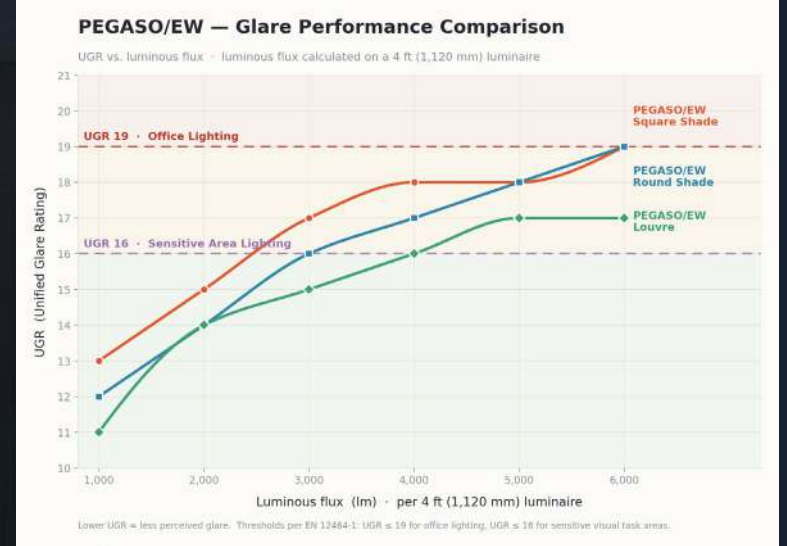
- 40° beam — 35° with Louvre.
- Ideal for office spaces, corridors, and workstations.
- Suited to supermarket aisles.
- Movable standing luminaires placed beside a desk.
- With Louvre: even greater comfort for hospitals and sensitive areas.
- A great choice for museum lighting, especially close to displayed object.
- Stays below the UGR 16 threshold across the whole output range.

# PEGASO OPTICS: BEAM ANGLE DEEP DIVE

## PEGASO/EW — 50° Beam



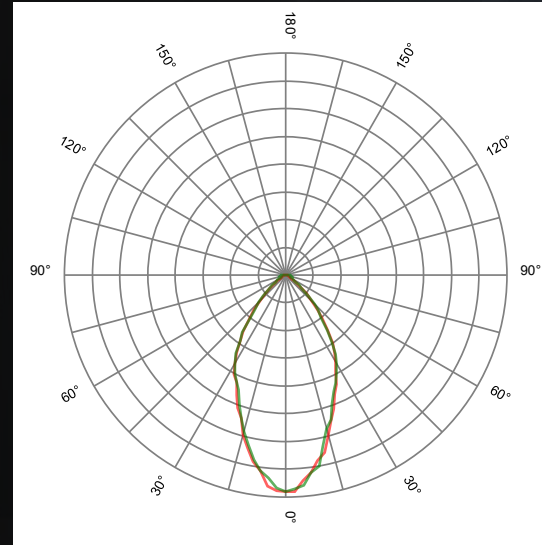
UGR performance — PEGASO/EW with the 3 shades



- 50° beam — 45° with Louvre.
- The most used configuration in office lighting.
- Maximum visual comfort with respect to total light uniformity.
- With Louvre: ideal for hospital patient rooms, museum galleries, and open spaces.
- Keeps UGR at or below 19 across the whole output range.

# PEGASO OPTICS: BEAM ANGLE DEEP DIVE

## PEGASO/UW — 80° Beam



*PEGASO: solid UGR performance, unique aesthetics, and effortless integration into your luminaire platform.*



- 80° beam — 70° with Louvre.
- Built for building efficiency: broader luminaire spacing, since the light covers a larger area.
- Broad use in general lighting.
- With Louvre: designed for open spaces in hospitals to allow optimal visual comfort.
- Stays below the UGR 22 industrial/commercial threshold across the whole output range.

# OPTICAL & MECHANIC DESIGN & CUSTOM PROJECTS



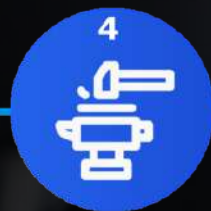
1  
SEND YOUR IDEA



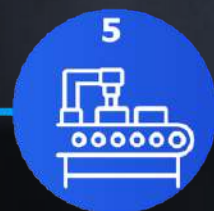
2  
OPTICAL &  
MECHANICAL  
ANALYSIS



3  
OPTICAL  
DEVELOPMENT



4  
MOLD  
CONSTRUCTION



5  
SAMPLING  
& SERIAL  
PRODUCTION



6  
ESD AREA  
OPTICAL MOUNTING

- Engineering, Design and Production of moulds and equipment.
- **100 % in-house.**
- Manufacturing area of over 21,000 sqm.
- 100+ EP Designs issued.
- ISO 9001:2015 Certification.
- Dedicated Optical and Mechanical support.



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