



**HIGH POWER  
PROFESSIONAL  
FLOODLIGHT**

**OLYMPIAD**

[www.pelsan.com.tr](http://www.pelsan.com.tr)



HIGH POWER PROFESSIONAL  
FLOODLIGHT



LIGHTWEIGHT  
DESIGN

## Drop-in Retrofit Solution

*One of the main challenges* in modernization projects is the **static and wind load** caused by the weight and size of LED systems. **Olympiad** has a more compact and lighter design compared to alternatives, which helps reduce structural risks and **shorten installation time**. It allows retrofit applications without changing existing poles, **providing time and cost advantages**. Thanks to its lightweight structure, it speeds up installation **without adding extra load** to the supporting system.

# UEFA-FIFA-FIBA COMPLIANCE



Olympiad is developed to meet the performance requirements of **UEFA, FIFA, and FIBA** standards. Its wide optical options provide **maximum visual comfort, minimum glare (GR)**, and ideal lighting levels.

The adjustable aiming system helps achieve **high uniformity** in vertical illuminance levels, which are critical for broadcasting. Thanks to its low flicker value, it delivers stable and **clear images** during slow-motion and high-frame-rate recordings.

With luminous output up to 180,000 lm, the required horizontal and vertical lighting levels can be achieved with fewer luminaires. **High TLCI options** ensure excellent color accuracy for professional broadcasting quality.

	ELITE LEVEL A	LEVEL A	LEVEL B	LEVEL C	LEVEL D
Average Horizontal Illuminance ( $E_{h, avg}$ )	> 2.000 Lux	> 1.500 Lux	> 1.400 Lux	> 1.200 Lux	> 800 Lux
Uniformity $U_{1, h}$ (Horizontal)	> 0.50	> 0.50	> 0.50	> 0.40	> 0.40
Uniformity $U_{2, h}$ (Horizontal)	> 0.70	> 0.70	> 0.70	> 0.60	> 0.60
Av. Vertical Illuminance ( $0^\circ-90^\circ-180^\circ-270^\circ$ )	Average: > 1.500 Lux Minimum: > 1.000 Lux	Average: > 1.250 Lux Minimum: > 700 Lux	Average: > 1.000 Lux Minimum: > 600 Lux	Average: > 700 Lux Minimum: > 350 Lux	Average: > 350 Lux Minimum: > 200 Lux
Uniformity $U_{1, v}$ (Vertical)	> 0.50 *	> 0.40 *	> 0.40 *	> 0.35 *	
Uniformity $U_{2, v}$ (Vertical)	> 0.60 *	> 0.50 *	> 0.50 *	> 0.45 *	
Flicker Factor (FF)	Average: <%3 Maximum: <%3	Average: <%12 Maximum: <%15	Average: <%12 Maximum: <%15	Average: <%20 Maximum: <%30	
Minimum Adjacent Uniformity Ratio (MAUR)	> 0.60 $\leq 10$ hata	> 0.60 $\leq 20$ hata	> 0.60 $\leq 30$ hata	> 0.50 $\leq 30$ hata	
Correlated Color Temperature (CCT)	5.000-6.200K	5.000-6.200K	5.000-6.200K	4.000-6.200K	4.200-6.200K
Color Rendering Index (CRI - Ra)	$\geq 80$ Ra	$\geq 80$ Ra	$\geq 80$ Ra	$\geq 70$ Ra	$\geq 65$ Ra
Glare Rating (GR)	< 50	< 50	< 50	< 50	< 50
Maintenance Factor (MF)	0.90 LED 0.80 HID	0.90 LED 0.80 HID	0.90 LED 0.80 HID	0.90 LED 0.80 HID	0.90 LED 0.70 HID

\* It complies with UEFA standards

# *Excellent* **Boardcast** **Quality**



**High Vertical  
Illuminance**



**High  
Uniformity**



**Low  
Flicker**



**Low  
Glare**



**High Color  
Quality**

# Now On Stage



# OLYMPIAD



*The Olympiad luminaire is designed to be compatible with DMX and RDM control systems. It allows centralized and synchronized lighting management in professional sports fields. Light levels, scene settings, and special event modes can be precisely controlled through DMX and RDM. Before matches, during halftime, or for special events, it provides dynamic, flexible, and impressive lighting solutions.*

## End-to-End Solution for Stadium Modernization



### Site Survey and Analysis

Every successful lighting project starts with a **clear and accurate analysis**. In Olympiad solutions, the existing infrastructure is carefully checked before any **retrofit application**. Field conditions, mounting points, and current lighting performance are measured on site. The information collected during this stage helps define the technical needs of the project. This ensures the **right product selection** and a **well-planned lighting design** for the stadium.

### Design According to UEFA and FIFA Standards

Olympiad is developed in line with **international standards for professional sports facilities**. The design process follows UEFA and FIFA lighting requirements, taking into **account illuminance levels, uniformity, glare control, and broadcasting needs**. Through detailed analysis, an optimal light distribution is achieved for the field, while **maintaining performance and visual comfort**.



### Supervision During Installation

Correct on-site application of the lighting design is essential to achieve the targeted performance. As part of the Olympiad solution, **supervision support is provided during installation**. **Luminaire positioning, optical direction, and aiming adjustments** are checked according to the project design. This approach eliminates the gap between design and application and ensures the expected lighting performance is achieved.

### Lighting Measurement and UEFA Compliance Support

After installation is completed, the lighting performance is measured on site and verified. In line with UEFA requirements, **GR values, vertical and horizontal illuminance levels, flicker, and uniformity measurements** are carried out. The results confirm that the system meets **international standards and ensure that the project** is technically completed without any gaps.



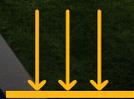
# Engineering Processes



**Optics  
Selection**



**Aiming Plan  
(Pan/Tilt)**



**Vertical  
Illuminance  
Focus**



**Uniformity  
Targets**

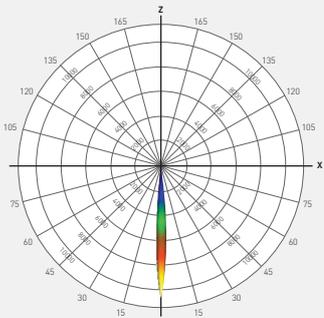


**Glare Control  
(GR)**

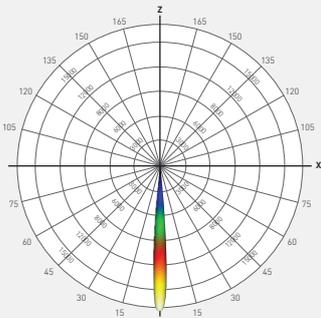


**On-site  
Verification**

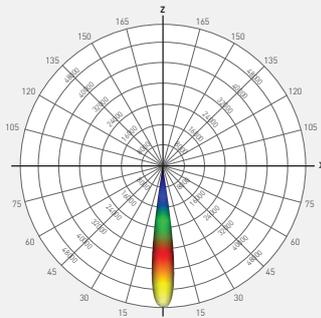
# Wide Optics



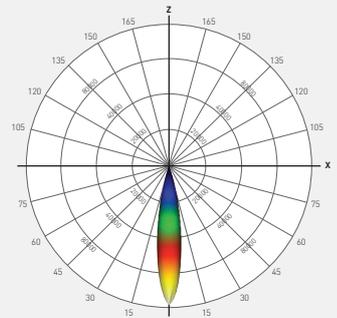
**8°**



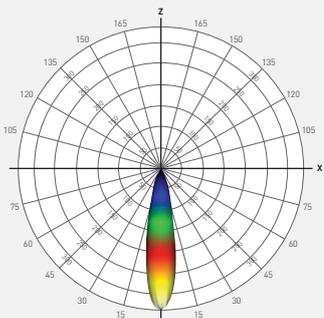
**10°**



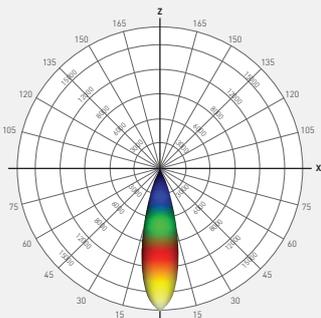
**15°**



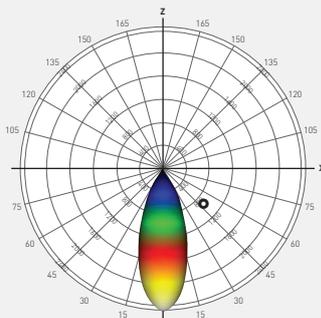
**20°**



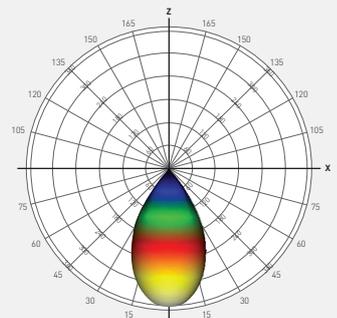
**25°**



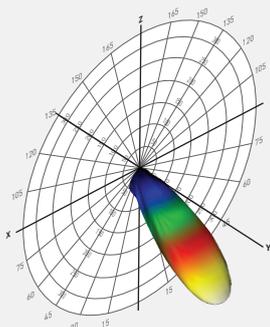
**30°**



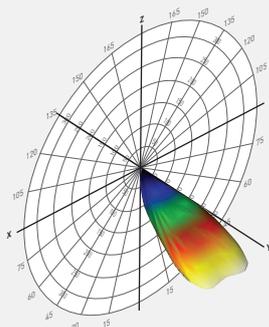
**40°**



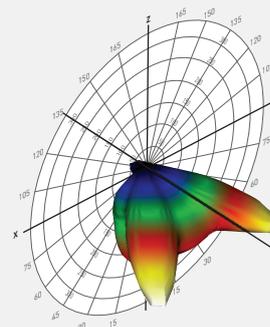
**60°**



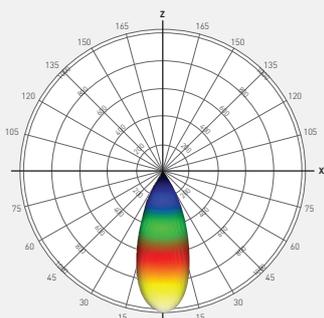
**ASYM1**



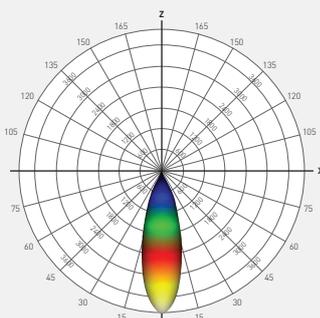
**ASYM2**



**ASYM3**



**OVAL1-42° + 21°**



**OVAL2-33° + 15°**



One Piece  
Gasket

Tempered Glass

Angle Adjustable  
Console

PMMA Lens

IP67 Driver

Aluminium Injection  
Console



### Mechanical Specifications

Body	Aluminium
IP Rating	IP66
IK Rating	IK10
Body Weight (kg)	26
Control Box Weight (kg)	6
RAL Code	7043
Dimensions (mm)	615x593x444



### Electrical Specifications

Power	600-1200W
LED Chip Lifetime	L90 Tc@105°C >102.000h.
LED Driver Lifetime	Tc@65°C 120.000h
Input Voltage	198-440Vac
Frequency	47-63Hz
Power Factor (Full Load)	>0,95
SPD	10kV
THD	%15
Operating Temperature	-40°C / 50°C
Class	I



### Optical Specifications

Luminous Flux	90.000 - 180.000 lm
Efficacy	Up to 150 lm/W
Lens	PMMA
Diffuser	Tempered Glass
CRI	+80
Broadcast Option	90+
TLCI	90+
Colour Temperature	4000K - 5700K - 6500K



### Options

DALI	Suitable
DMX RDM	Suitable
1-10V	Suitable
2 Step Dim	Suitable
Class I / Class II	-
Marine Painting	Suitable
External SPD	Suitable

## Application Areas

OLYMPIAD is a professional lighting solution designed for medium and large-scale projects. With flexible configurations, it can be adapted to different lighting requirements.

-  Outdoor Sports Facilities
-  Indoor Sports Halls and Arenas
-  Airports and Port Areas
-  Border Security Applications
-  Squares and Large Areas



# Pelsan



All your lighting needs in one adress.

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