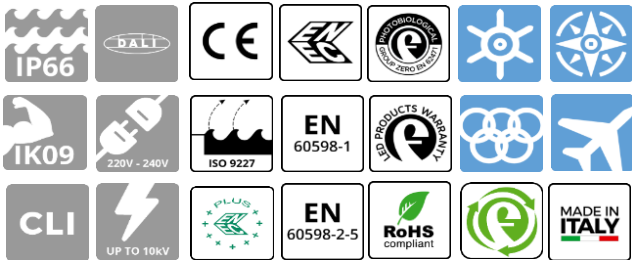


LEDMASTER ONE
ASYMMETRIC OPTIC



GENERAL CHARACTERISTICS	
Type	Floodlight
Applications	Indoor and outdoor sport venues, big areas such as airports, ports and parking
MATERIALS AND FINISHES	
<ul style="list-style-type: none">• One piece body in die-cast aluminum with minimum EN 47100 title with low content copper and high resistance to atmospheric agents.• Internal driver configuration: cable box (body and rear cover) in die cast aluminium.• Coated in silver-colored polyester powders (RAL 9006) resistant to UV rays according to ASTM D4587:2011 standard and to salt spray tests according to EN ISO 9227:2017, with a duration of 3000 hours.• Pressure compensation filters in Teflon.• Gaskets in anti-aging silicone material, removable.• INFINITY protection system: extra-clear tempered glass protection screen, 4mm thick, made in a single piece, without fixing ring.	
<ul style="list-style-type: none">• Stainless steel external captive screws.• Hot deep galvanized steel fixing bracket.• Aluminium visor for asymmetrical version, painted in silver-colored polyester powders (RAL 9006).	
MECHANICAL CHARACTERISTICS	
<ul style="list-style-type: none">• Opening provides access to optics and cable box in a single, easy step by by acting on the screws in stainless steel.• To prevent accidental loss of the protection screen during assembly and maintenance, the floodlight is equipped with retention cords.	
PROTECTION AGAINST SURGES	
<ul style="list-style-type: none">• In configurations with internal power system: up to 10kv/20kA, both common and differential mode as there is the Surge Protection Device (SPD).• In the development of LED lighting systems it is essential to introduce other SPD in the general panel (type 1 - e.g. with I_{max} = 100kA), in the area panels (type 1-2 or 2-3 - e.g. with I_{max} = 60kA) and coordinate them with the surge protector of the floodlight.	
INSTALLATION	
<ul style="list-style-type: none">• The floodlights that can be easily installed on metal structures or crosspieces thanks to the sturdy hot-dip galvanized steel bracket.	
TILT REGULATION AND AIMING DEVICES FOR ASYMMETRIC VERSION	
The floodlights are equipped with an aluminum lateral protractor scale and the relative reference on the bracket that allow continuous angular adjustment of the floodlight from -5° to +20°; on the same protractor scale there is an additional reference that allows the adjustment of the device also considering the visor.	

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ASYMMETRIC OPTIC

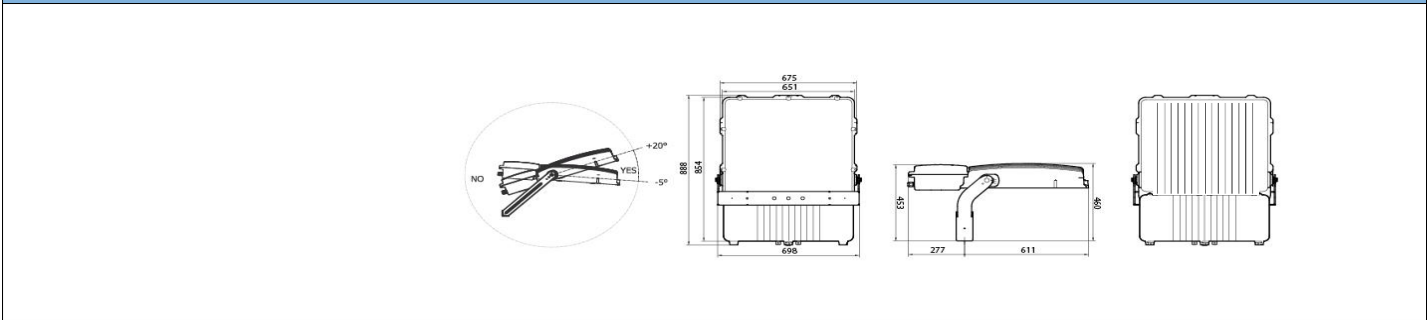


POWER SUPPLY CHARACTERISTICS	
• Power supply unit consisting of a programmable driver with a lifespan greater than 100,000h and only 10% of failure rate.	
• Electronic power supply with integrated thermal protection with high efficiency and durability intended for external use.	
• All versions are protected against overloads and surges to protect components and LEDs.	
• Total harmonic distortion (THD) 20% at full load.	
• LED driver with thermal protection and short circuit protection.	
• Power supply cables accesses the device through IP68 cable glands, different according to the configuration.	
• Power correction factor at full load > 0.9.	
• Power supply 220 - 240V / 50 - 60 Hz VAC. On request: 400V.	
• Cable plate complete with easily replaceable electronic unit.	
• DALI: digital dimming interface via DALI protocol (for 220-240V version).	
ELECTRICAL CONFIGURATIONS	
WITH INTERNAL POWER SUPPLY SYSTEM	
• with drivers mounted on cable plates easily replaceable, inside the floodlight.	
Cable glands:	
• PG16 for supply voltage;	
• PG13 for DALI bipolar cable (optional).	
WISE SOLUTION (optional)	
• DMX: digital dimming interface via DMX protocol.	

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ASYMMETRIC OPTIC

DIMENSIONS

WITH INTERNAL POWER SUPPLY SYSTEM

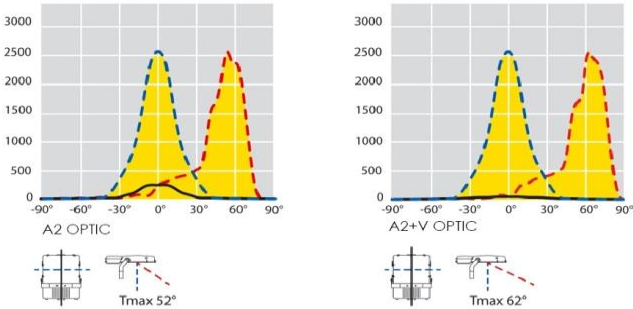


Max weight*	34,50 kg
Lateral exposed surface	0,140m ² / with visor: 0,160m ²
Front exposed surface - tilt 0°	0,110m ² / with visor: 0,200m ²

* Weight tolerance ± 5%

LEDMASTER ONE
ASYMMETRIC OPTIC

OPTICAL SYSTEM CHARACTERISTICS		
PROFESSIONAL asymmetric optics designed in-house, for professional lighting.		
Optic A2: optic system composed of tech polymer metallized vacuum reflectors.		
With different levels of maximum intensity according on the type of optics.		
Optic group easily replaceable.		
Optical unit in a single compartment protected by the INFINITY protection system: extra-clear tempered glass protection screen, 4mm thick, made in a single piece, without fixing ring.		
Thermal dissipation system by means of cross-sectional cooling fins placed on the upper cover.		
High Power LED technology on a pressed aluminum circuit, highly heatdissipating MCPCB (Metal Core Printed Circuit Board).		
Color temperature (tolerance $\pm 400\text{K}$): 5000K – CRI >70.		
Other color temperatures (f.e. 3000K - 4000K) and color rendering indexes are available on request.		
MAINTAINED AVERAGE LUMINOUS FLUX ACCORDING TO LM80 - TM21 STANDARDS		
Operating temperature range		
-40°C ÷ +40°C	L80B10	> 100.000 hrs
-40°C ÷ +40°C	L90B10	> 50.000 hrs
-40°C ÷ +55°C	L80B10	> 50.000 hrs
PHOTOMETRIC DATA		



LEDMASTER ONE
ASYMMETRIC OPTIC - INTERNAL POWER SUPPLY SYSTEM



CODICI PRODOTTO / PRODUCT CODES									
Codice	Numero di LED	Optica	W (LED+DRIVER)	Flusso luminoso nominale LED	Flusso utile in uscita	Peso lordo	Vol. (m ³)	Temp. Colore / CRI	DESIGN CODE*
Code	Number of LED	Optic		Nominal flux LED (Lumen)	Useful output flux (Lumen)	Gross weight (kg)		Color Temp. / CRI	
80017	100	A2	1100	195000	150000	39,20	0,240	5000K CRI 70	LONEIDA100A2-K5070

Multichip LED technology.
ENEC certified floodlight for operating temperatures from -40 to +40°C.
Ambient performance temperature Tq 25°C.
Floodlight with digital dimming interface via DALI protocol.

Cable glands:
• PG16 for supply voltage;
• PG13 for DALI bipolar cable (optional).

Tolerance of flux values +/- 10%.
Tolerance of electrical power values: +/- 7%.
The flux indicated in the table may be changed and improved according to the constant technical evolution of the light efficiency of the led.

* Design Code: reference code for the design.
** When ordering, both the 5-digit product code without visor and the visor code (60044) must be indicated.