



FL830

TECHNICAL DATASHEET

FL830 is an LED floodlight that excels in optical performance, thermal management, compatibility and serviceability, bringing an uncompromised outcome of efficiency, and versatility, whilst being future-proof for an optimised investment.

FL830 has been designed to meet the most demanding lighting requirements, being easy to install and maintain.



It combines the latest LED light source with state-of-the-art design, achieving long life for both LEDs and drivers.

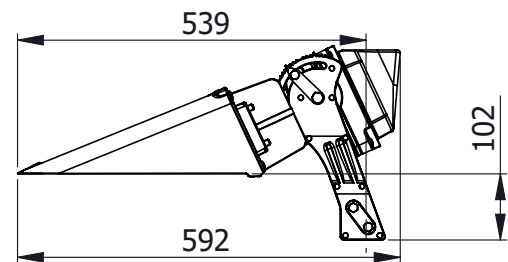
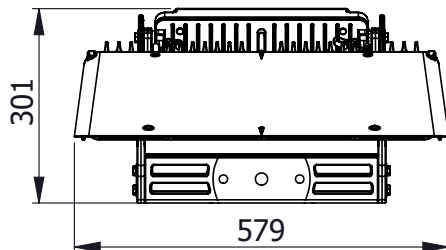
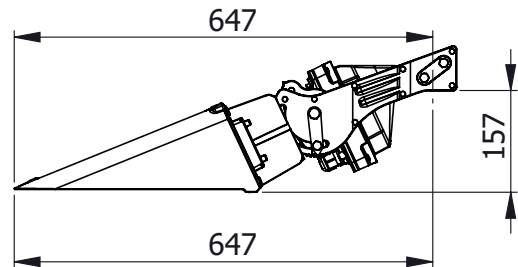
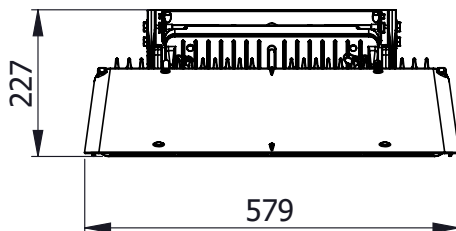
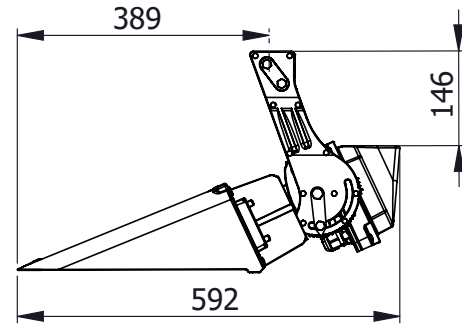
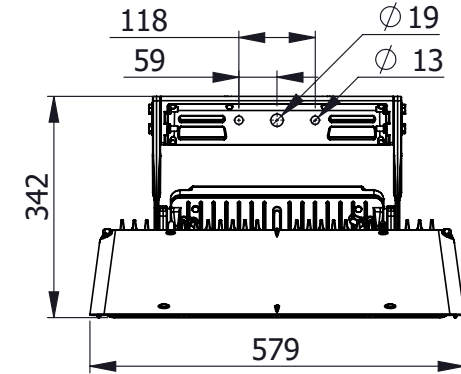
SPECIFICATION

Light Source	CSP (chip scale package) LEDs
Number of LEDs	128 (2 x 64)
Number of Drivers	1
Power Consumption	200 ~ 454W
Luminaire Luminous Flux	28,000 ~ 61,800 lm
Luminaire Efficacy	Up to 155 lm/W
Driver Current	500mA ~ 1200mA in 100mA steps
Lumen Maintenance Output	L90 > 100,000 hours (Ta = 40°C)
Operating Temperature (for 100,000hrs)	-40°C to + 50°C*
Impact Resistance	IK08
Ingress Protection	IP66
Correlated Colour Temperature	3000K, 4000K, 5700K
Colour Rendering Index	> 70
Optical Cover	Flat Glass
Electrical Class	I
Control System Input	D4i, DALI, 1-10V or Step-dimming
Surge Protection (in driver)	10 kV Comm. Mode 6 kV Diff. Mode to IEC 61000-4-5
Additional surge protection (optional)	UL - 20kA (Imax), 10kA nominal (In) to IEEE C62.41.2 IEC - 10kV 10kA to IEC 61643-11, IEC - 20kV 20kA to IEC 61643-11
Lighting Regulation	Mini Photocell, 7-pin ANSI NEMA Socket, Zhaga book 18 Socket, Wireless CMS
Installation Height	12 ~ 50m
Installation	M16 stirrup bolt (tighten to 40Nm), M12 Lindapter bolt (tighten to 25Nm)
Tilt	Variable, see tilt adjust diagram
Material	High pressure die cast aluminium
Finish	Polyester powder coat cured under heat, galvanised steel or cast aluminium stirrup
Colours	White (RAL 9010), other RAL colours available on request
Wind Area (EPA)	0.126m ² Front, 0.0653m ² Side
Weight	15.2kg
Approvals	UL 1598 Edition 5, CSA C22.2 No. 250.0:21 5th Edition IEC 60598-2-5, ENEC CE and UKCA

* = Not certified above +40°C. The available output power of this luminaire is temperature dependent. Contact us for detailed performance specifications.

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Input details			FL830 per MCB					
Voltage range	Frequency range	Inrush current	B10	B16	B25	C10	C16	C25
120 - 277V	50 - 60Hz	1.03A ² /S for 6.53mS	2	4	5	3	5	6
277 - 480V	50 - 60Hz	1.25A ² /S for 4.62mS	6	10	12	7	11	14



Aiming FL830

The stirrup and adjustment washer allow for precise tilting when the floodlight is fitted in situ. On the stirrup, the teeth are spaced in 5° steps, with a full range of ±15°, where the large tooth (Dependant on stirrup position) indicates zero tilt. To adjust tilt loosen central M10 and clamp M8 bolts and rotate luminaire to desired tilt, each tooth on the stirrup is 5° tilt either up or down. When pointer is centrally between teeth it is 2.5° of tilt. When at desired tilt tighten M8 to 20Nm and M10 to 30Nm.

