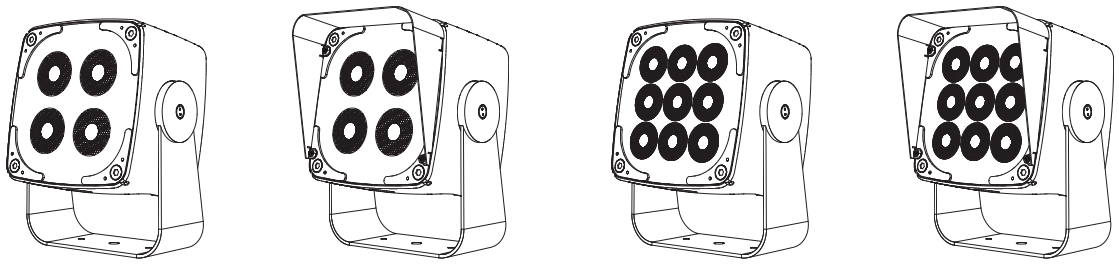
Fira Pro & Fira Ultra

COMPACT LED FLOODS FOR ARCHITECTURAL LIGHTING



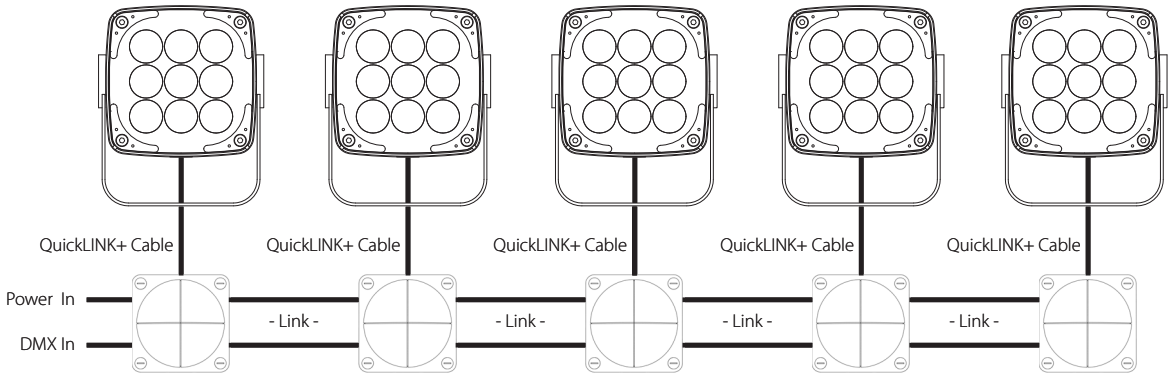
⚠ Warning

- Fira luminaires must be installed by a qualified electrician.
- Installation must be carried out in accordance with local and/or national electrical installation codes of practice.
- Isolate the mains supply to the driver during installation and whenever subsequently disconnecting or reconnecting the fitting to avoid electric shock.
- Use the correct polarity when wiring, if in any doubt please contact Pulsar.
- Pulsar luminaires are designed for lighting applications and must not be used for any other purpose.
- Unless authorised by Pulsar, field repairs of the luminaire will void the warranty.

MAINS & DATA CONNECTIONS

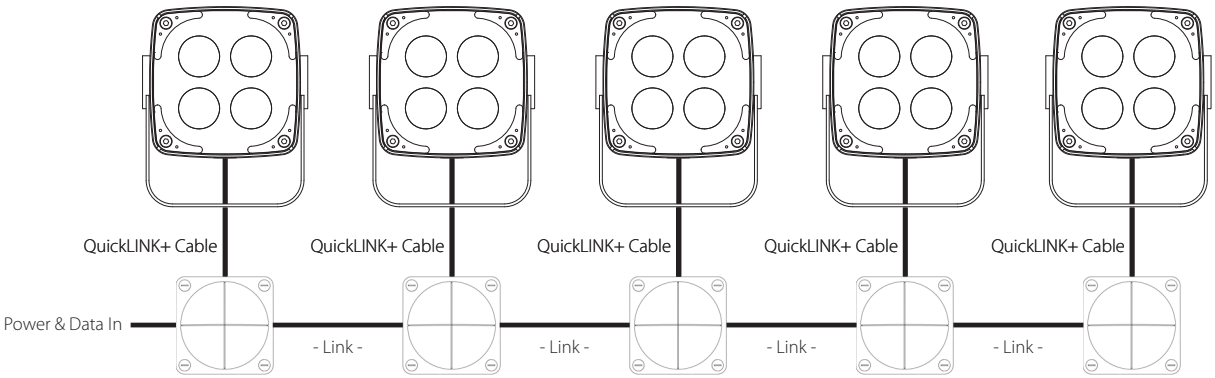
Typical Connections (Fira Ultra shown)

LuxCONNECT IP66 Hardwired connection boxes with **separate** Power & DMX wiring & QuickLINK+ luminaire connections



Typical Connections (Fira Pro shown)

LuxCONNECT IP66 Hardwired connection boxes with **combined** Power & DMX wiring & QuickLINK+ luminaire connections

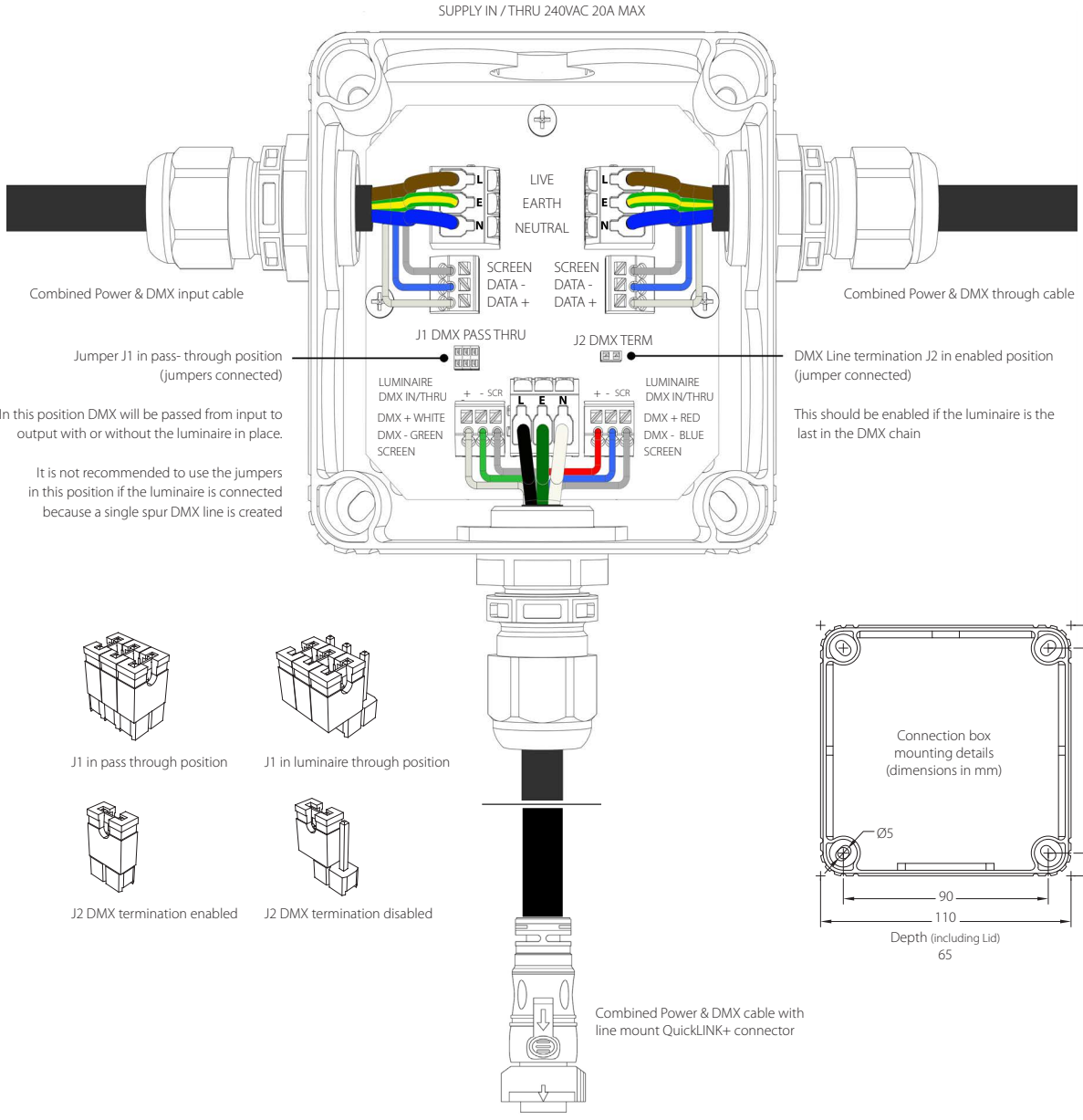


Fira Pro & Fira Ultra

COMPACT LED FLOODS FOR ARCHITECTURAL LIGHTING

WIRING DETAILS

LuxCONNECT IP66 Hardwired connection enclosure with **combined** Power & DMX input & QuickLINK+ luminaire connection



Power

The power cable should be no greater than 4mm2 and can be either stranded or solid cores.
The maximum current of each cable run should be no greater than 20A continuous.
Before fitting the power cable, each cable end should be stripped to between 9 and 11mm before inserting into the connectors.
Ensure connections are made in accordance to the markings on the PCB, failure to do so may result in damage to the luminaire.

DMX

Before fitting the DMX cable, each cable end should be stripped to between 8.5 and 9.5mm before inserting into the connector.
Ensure connections are made in accordance to the markings on the PCB, failure to do so may result in incorrect operation or damage to the luminaire.
IMPORTANT: If the insulation rating of the DMX cable is less than the supply voltage then additional protective sleeving should be fitted.

DMX Passthrough

When commissioning the installation before the luminaires are connected, or if a luminaire has been removed, the DMX signal can be passed through by repositioning the jumpers (J1) as indicated within the install box.

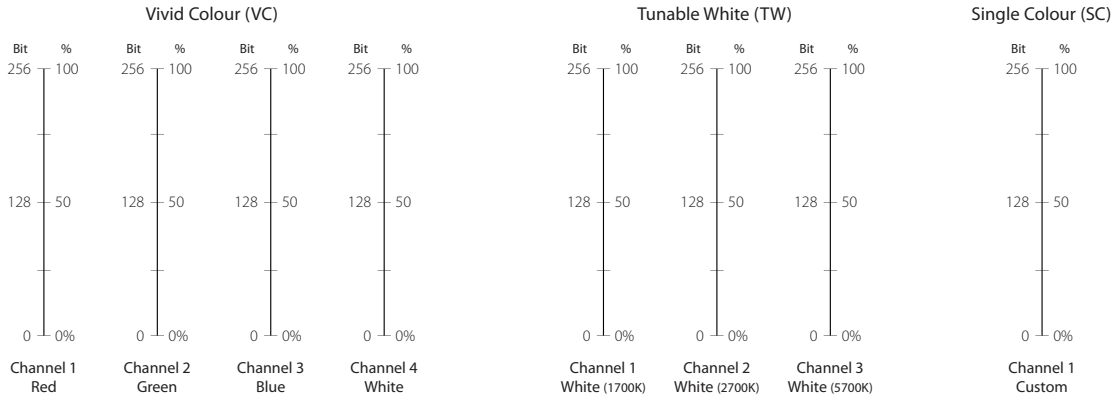
Fira Pro & Fira Ultra

COMPACT LED FLOODS FOR ARCHITECTURAL LIGHTING

CONTROL

Fira luminaires support DMX512, DMX512:1990, (R2013), ANSI E1.20 – 2010 (DMX with RDM V1.0)
All DMX512 protocols are supported including E1.11 DMX with RDM.
Other protocols may be supported with future software releases or hardware add-ons.

DMX Channel order



Start addresses are configured externally via RDM over DMX

RDM

The following RDM Parameter I.D'S (PIDS) are supported

Discovery:	0001 – Discovery_Branch_Unique
	0002 – Discovery_Mute
	0003 – Discovery_Un_mute
Status:	0020 – Queued_Messages
	0030 – Status_Messages
	0031 – Status_ID_Description
RDM Information:	0050 – Supported_Parameters
Product Information:	0060 – Device_Info
	0070 – Product_Detail_ID_List
	0080 – Device_Model_Description
	0081 – Manufacturer_Label
	0082 – Device_Label (Supporting 32 charactors of user text)
	00C0 – Software_Version_Label
DMX512 Setup:	00E0 – DMX_Personality
	00E1 – DMX_Personality_Description
	00F0 – DMX_Start_Address
	0120 – Slot_Info
	0121 – Slot_Description
Sensors:	0200 – Sensor_Definition
	0201 – Sensor_Value
Power/Lamp Settings:	0400 – Device_Hours
Control:	1000 – Identify_Device

Fira Pro & Fira Ultra

COMPACT LED FLOODS FOR ARCHITECTURAL LIGHTING

OPTICAL CONTROL - BEAM SHAPING

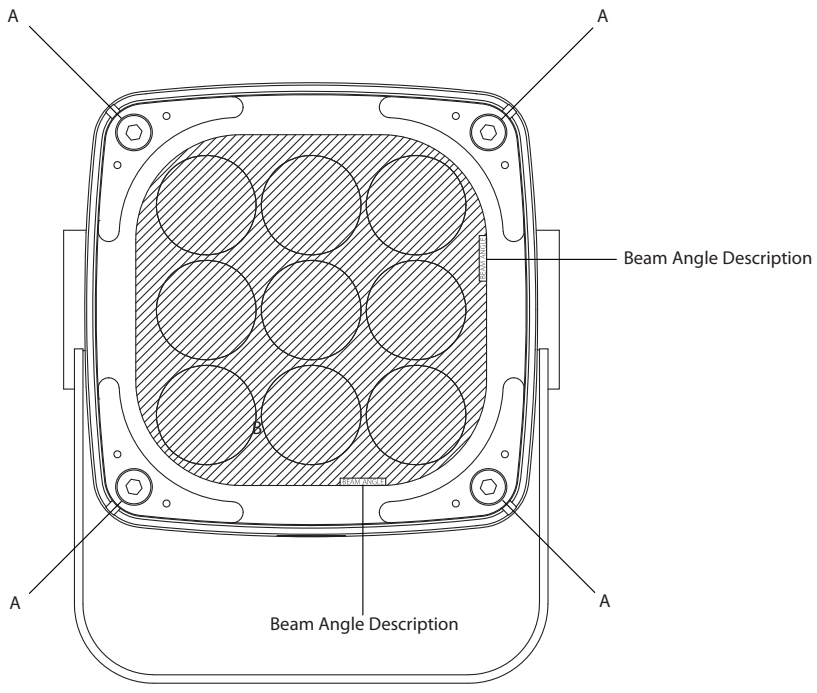
HBS Beam Shaping - Fira Pro & Fira Ultra

Fira luminaires are fitted with native HBS (Holographic Beam Shaping film), when manufactured.
It is possible to change the HBS film sheets to adjust the beam angle. Standard HBS sheets are available in 20°, 40°, 80°, 10°x60° and 60°x10° adjustment angles
HBS sheets are a standard size to fit both the Fira Pro and Fira Ultra.

Changing the HBS

- Position the luminaire on its back with the glass facing in an upward direction.
- Remove the 4 hex bolts **(A)** that secure the glass mounting brackets, and remove the brackets.
- Carefully remove the front glass taking care to not damage the rubber seal.
- Locate and remove the existing HBS film.
- Remove the replacement HBS from its packing sleeve (The beam angle description is printed on the lower and right sides)
- Install the new HBS sheet centrally orientated with the Beam Angle legend readable from the front of the luminaire

  Note - if the HBS replacement sheets are installed the wrong way around, the beam angle will not change and light output will be significantly reduced
- Replace the rubber seal into the groove in the main body of the luminaire
- Refit the front glass ensuring that the rubber seal is still located into the groove
- Replace and refit the corner bracket and retighten the screws **(A)** evenly in sequence.



Fira Ultra Shown

Fira Pro & Fira Ultra

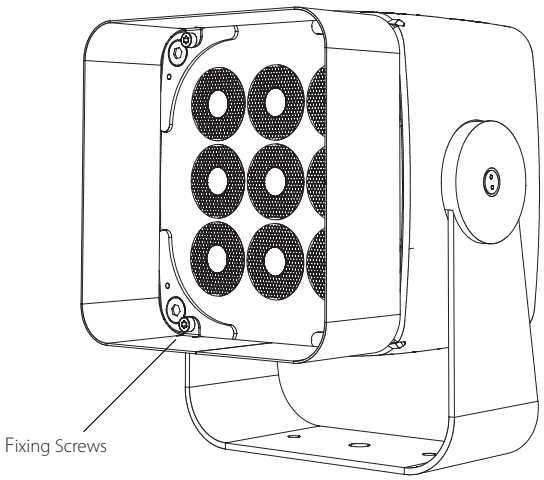
COMPACT LED FLOODS FOR ARCHITECTURAL LIGHTING

OPTICAL CONTROL - SNOOTS & LOUVRES

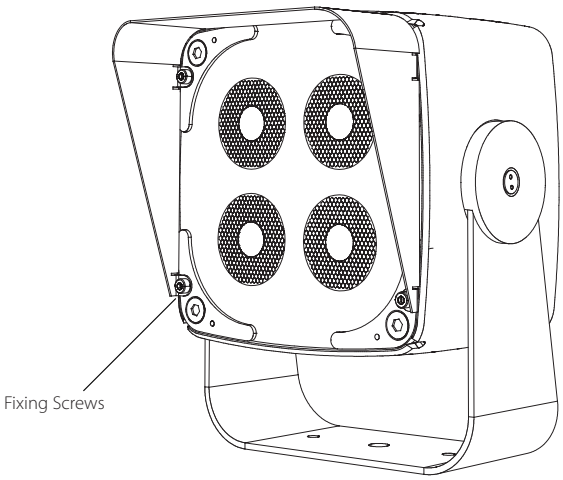
Attachments for Glare

3 Attachments are available to reduce light glare from Fira luminaires, these being a 50mm Full Snoot, Half Snoot and Louvre.
Each attachment is fitted with the supplied M4 fixing screws as shown below.

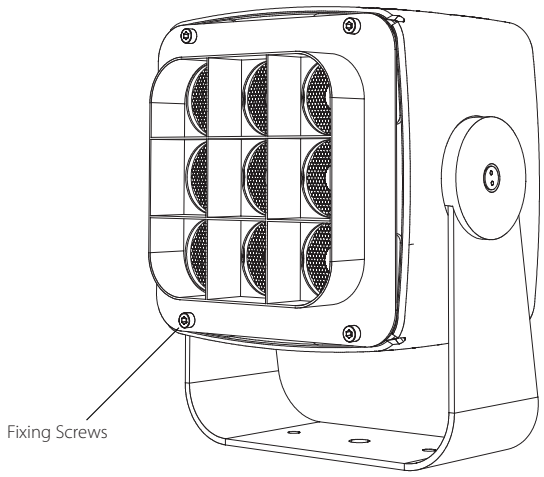
Fira Ultra with Full Snoot



Fira Pro with Half Snoot



Fira Ultra with Louvre

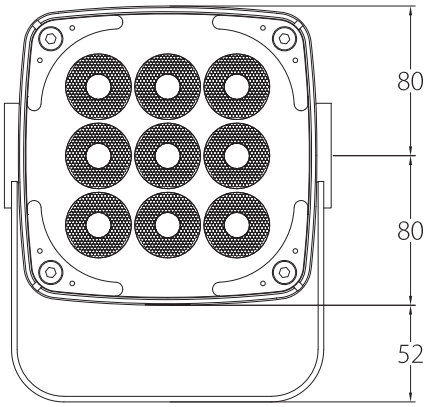


Fira Pro & Fira Ultra

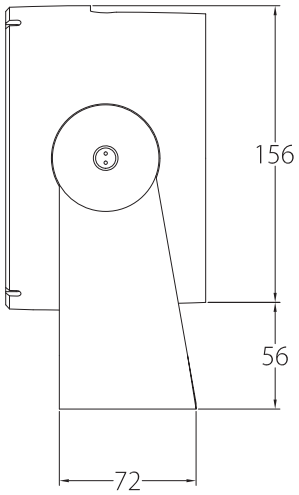
COMPACT LED FLOODS FOR ARCHITECTURAL LIGHTING

MECHANICAL DETAILS - Fira Pro & Fira Ultra (All dimensions in mm)

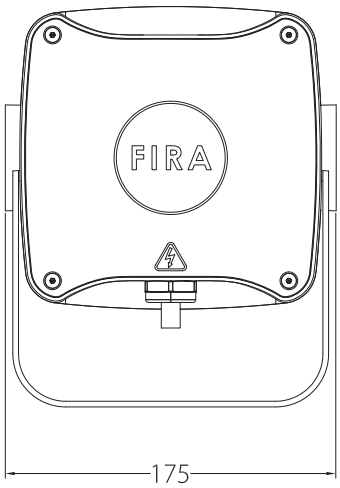
Front view (Fira Ultra)



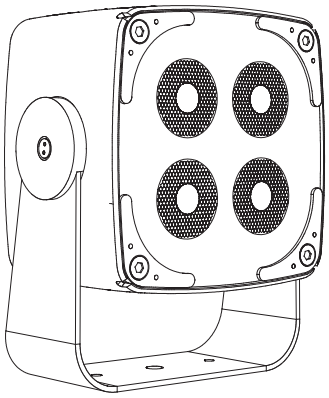
Side view



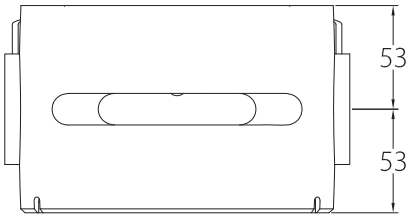
Rear view



Perspective view (Fira Pro)



Top view



Weights

Fira Ultra Flood 4.5kgs

Fira Pro Flood 4.4kgs

Dimensions

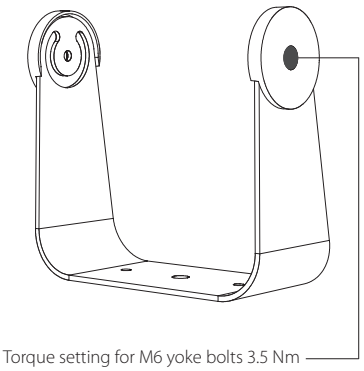
212mm (H) x 175mm (W) x 106mm (D)

Fira Pro & Fira Ultra

COMPACT LED FLOODS FOR ARCHITECTURAL LIGHTING

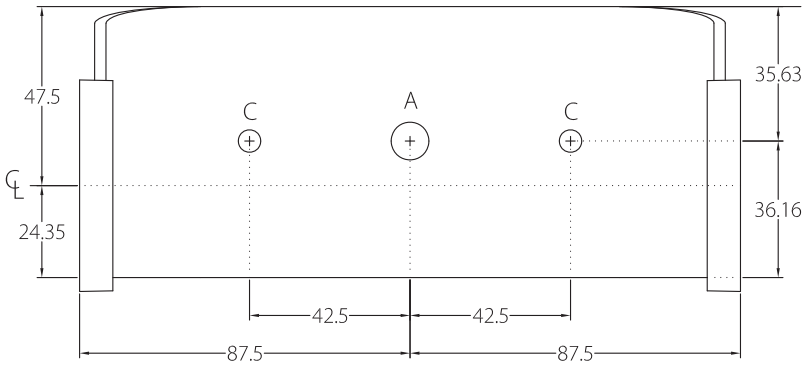
MECHANICAL DETAILS - Fira Pro & Fira Ultra

Standard Yoke



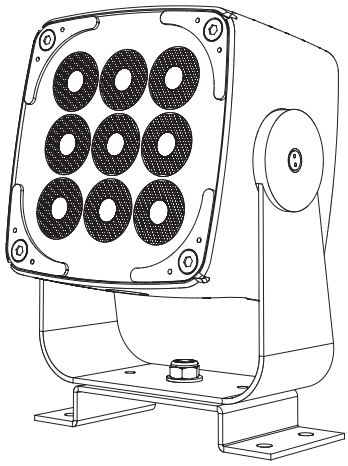
Torque setting for M6 yoke bolts 3.5 Nm

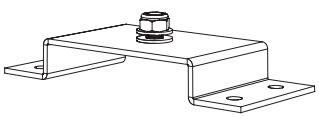
Top view



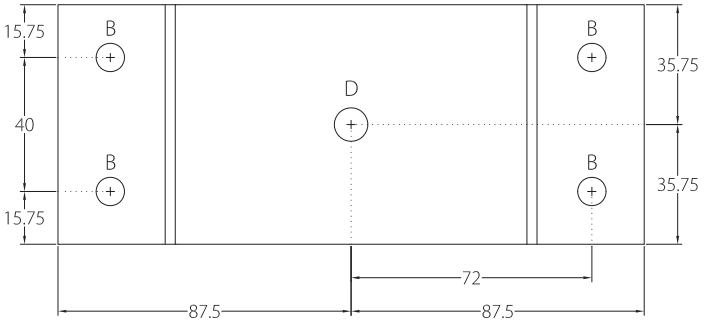
Optional Mounting Plate

An optional mounting plate is available, to fit the Fira Pro & Fira Ultra

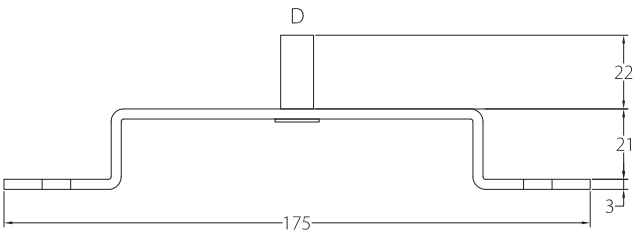




Top view



Side view



Hole details

(A) - Clearance for M10 fixings
(B) - Clearance for M8 fixings
(C) - Clearance for M6 fixings
(D) - M10 Stud for Standard Yoke

All dimensions in mm

Fira Pro & Fira Ultra

COMPACT LED FLOODS FOR ARCHITECTURAL LIGHTING

ADDITIONAL INFORMATION

Mains Supply Cable Colours (Harmonised)

Green/Yellow	Earth - Ground
Brown	Live Phase
Blue	Neutral

DMX Cable Colours (Pulsar)

White	DMX +
Blue	DMX -
Shield	Screen

QuickLINK+ Cable Colours (Power)

Green	Earth - Ground
Black	Live Phase
White	Neutral

QuickLINK+ Cable Colours (Data in)

White	DMX +
Green	DMX -
Shield	Screen

QuickLINK+ Cable Colours (Data through)

Red	DMX +
Blue	DMX -
Shield	Screen

Power Requirements

Fira Pro & Fira Ultra 120 -277V AC @ 50/60Hz 30W

Portable Appliance Testing

Fira Pro & Fira Ultra luminaires may be safely Earth Bond and Insulation tested (500V).

Product Weights

Fira Pro	4.4 kgs
Fira Ultra	4.5 kgs

Maintenance

Fira Pro & Fira Ultra luminaires should be regularly tested and inspected, and as part of this checked for the build up of external moss and debris which can reduce the light output. If cleaning is required, then a mild water based detergent should be used, care should be taken to avoid the use of harsh solvent based cleaning materials as this could result in damage to the luminaire. Under no circumstances should pressure washers be used for cleaning.

Standards

Fira Pro & Fira Ultra luminaires comply with the following international and national harmonised standards

Electrical Safety - EN 60598, EN 60598-2-13, EN 61347
EMC - EN 55015, EN 61547
RoHS - EN 50581
Photobiological – EN 62471
WEEE - EN 50419
Protection – IP66 / IK9

Warranty

Five years from the date of original purchase.
The warranty covers defects in manufacturing workmanship and materials. It is limited to parts and labour.
The warranty becomes void if the product is :-

A Misused.
B Not used in accordance with the instructions.
C The cable connections are not made according to our instructions if the unit is used in damp or wet environments.
D Repairs are made by unauthorised persons.
E The serial number label has been removed or defaced.

Pulsar's maximum liability shall not exceed the price paid for the product.
In the unlikely event of a fault occurring, do not use without repair, return the product, with a description of the fault, to your supplier or direct to Pulsar for immediate attention.
Full warranty details are available on request or from our website at www.pulsarlight.com.

As part of our commitment to continuous improvement PULSAR may change the specifications of its products without prior notification or public announcement.
All descriptions, illustrations, drawings and specifications in this publication present only general particulars and shall not form part of any contract.
Please visit our website www.pulsarlight.com for the most up to date information.