



# Fira

## The small but mighty projector





## The small but powerful projector

With its elegant, geometric form and compact size, Fira is a highly versatile architectural luminaire, designed to enhance urban environments through precise illumination.

Developed as a joint collaboration between DW Windsor and Pulsar, the high performance range is available with a choice of dynamic and monochromatic LED light sources with multiple beam options from narrow spots to wide floods.

### **Key advantages**

- Three models: Fira, Fira Pro & Fira Ultra for ultimate choice
- 2700K, 3000K & 4000K for high performance (up to 117lm/W)
- RGBW, RGBA & Tunable White options for dynamic lighting schemes
- Multiple dimming protocols including bluetooth wireless control for easy adjustment
- Thermally optimised design to ensure consistent light performance
- IP66 rated with IK09 toughened glass for excellent impact protection
- Long-lasting 100,000 hour lifetime

## **Applications**



Feature lighting



Statues & monuments

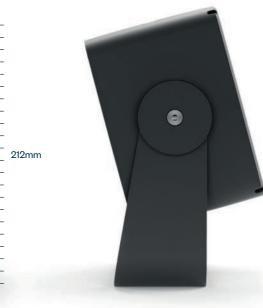


Historic buildings

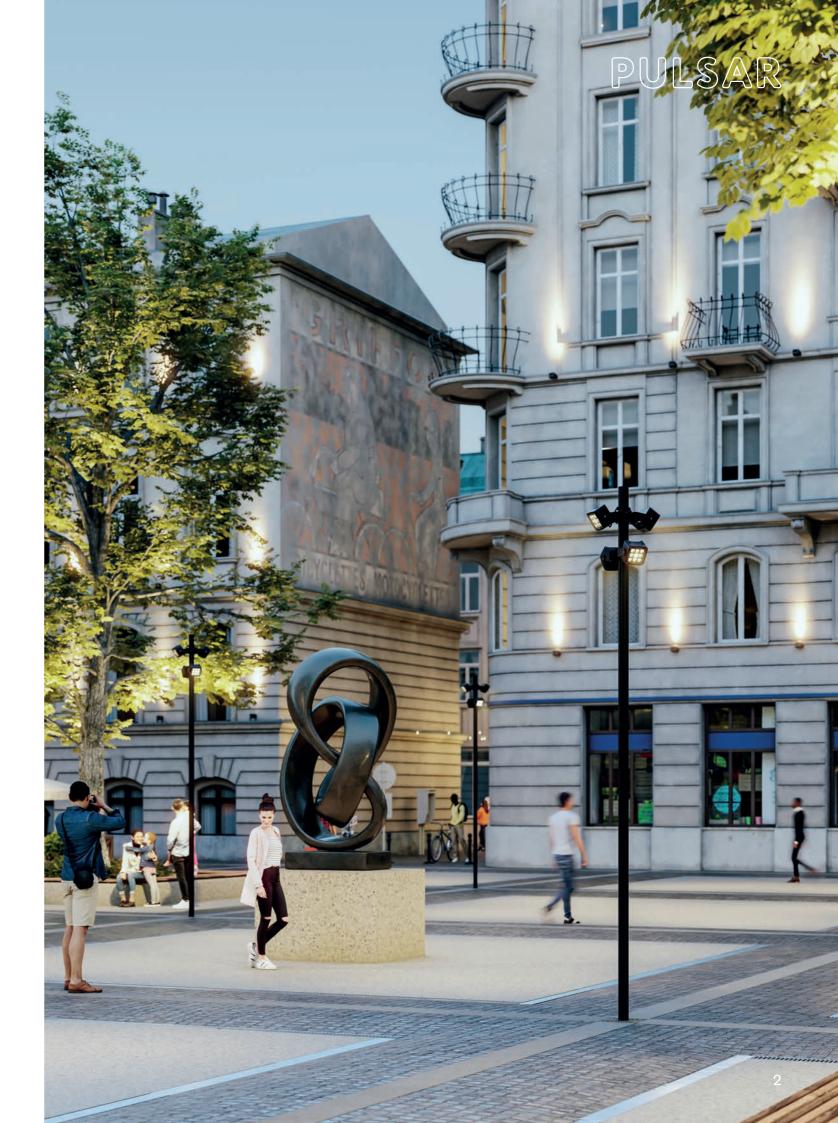


Town squares & plazas





175mm







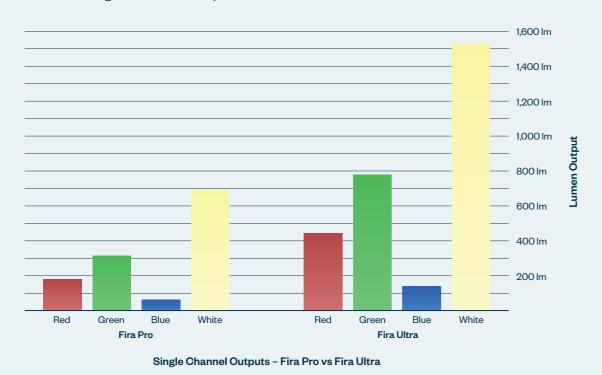
## Maximum performance

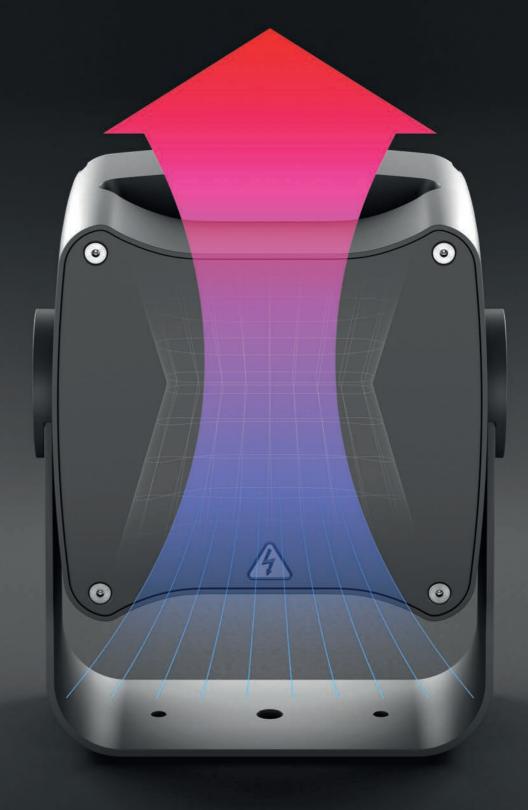
Featuring precision optics and our latest LED technical innovations, Fira delivers powerful, targeted illumination with precisely controlled beams and perfect uniformity. So whether you're highlighting an architectural feature, or illuminating a building façade, with Fira you can be sure light is directed only where it's needed.

Fira also incorporates our Cool Zone™ technology to help maximise luminaire performance. This innovative feature separates the driver from the LED chamber creating a thermal barrier, whilst also accelerating air flow using an engineered venturi slot to maximise the cooling effect.

## **LuxRAMP™ Technology**

Fira Pro and Fira Ultra models incorporate Pulsar's LuxRAMP technology which dynamically boosts the power sent to individual LED channels, helping to maximise the total light output of the luminaire. Fira Ultra is able to leverage this technology even further, resulting in more than double the brightness when compared with Fira Pro.







**Advanced Cooling** 

Cool Zone technology draws cool air through the luminaire to help improve luminaire performance.



The Fira range can be specified with a selection of monochromatic and dynamic LED light sources to suit your project needs. Fira provides efficient, white light, whilst Fira Pro and Fira Ultra models utilise Pulsar's proprietary VividCOLOUR and TunableWHITE technologies to produce high quality multi-channel, variable light.



## White Light

High quality, efficient white light. Available in a choice of three colour temperatures - 2700K, 3000K and 4000K



## **RGBW**

Ideal for applications that require a mix of white and coloured light. Choose from RGBW 2700K and RGBW 5700K



## RGBA

Capable of producing a wide spectrum of warm, rich colours including very warm whites down to 1700K

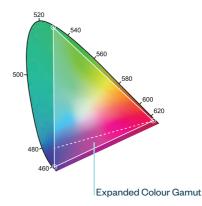


#### **Tunable White**

Variable white light. Dynamically adjust the light's colour temperature from 5700K to 1700K to suit the application

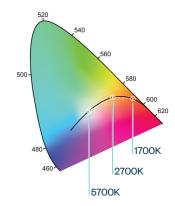
## VividCOLOUR

Using a mix of red, green, blue and white LEDs, Pulsar's VividCOLOUR technology expands the colour gamut, extending the range of blue, magenta and cyan hues to produce a full spectrum of colours.



### **TunableWHITE**

While most variable white sources use just two LEDs to create white light, Pulsar's TunableWHITE technology uses a mix of three white LEDs to produce light more closely aligned to the black body curve.





## Engineered to last

Fira has been designed to withstand extreme weather conditions whilst enduring some of the world's toughest environments; so no matter where it's installed, it can deliver exceptional performance — year in, year out.

With Fira, every detail has been considered to ensure product reliability and longevity. From its anti-condensation valve to its durable power coated finish, with Fira, you can be confident that it will continue to perform whatever the weather.



#### **Outdoor Use**

Features an IP66-rated housing for increased water protection, plus drainage points to prevent pooling



### **Extreme Temperatures**

Capable of withstanding wide fluctuations in ambient temperature from -40° C to +50° C\*



#### **Durable Construction**

Manufactured from die-cast LM6 aluminium and toughened glass with an impact protection rating of IKO9



## **Long Lasting**

Offered with our 5-year warranty as standard, and a rated LED lifetime of up to 100,000 hours

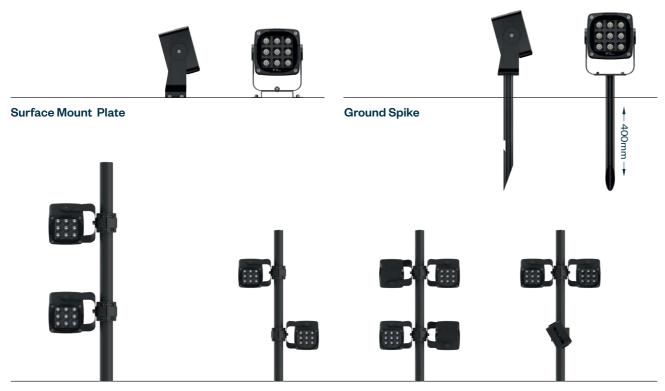


<sup>\*</sup> Fira rated up to +40°C



## **Mounting options**

Fira is a versatile lighting system suitable to several mounting locations, including floor, wall and ceiling positions. A range of mounting accessories provides further flexibility, allowing Fira to integrate seamlessly into architectural spaces. Multiple column-mounted solutions can also be configured to help bring public spaces to life.



Column Clamp



Post Top Linear Bracket





## PULSAR

## Range overview

## FIRA - EFFICIENT, WHITE LIGHT







(2	700K - 4000K)	8°	30°	65°
350mA	Luminous Flux (lm)	948 - 1070	825 - 931	684 - 772
(9W)	Peak Intensity (cd)	17,175 - 19,386	2,173 - 2,452	607 - 685
500mA	Luminous Flux (Im)	1478 - 1669	1,286 - 1,452	1,066 - 1,203
(13W)	Peak Intensity (cd)	26,778 - 30,238	3,388 - 3,825	946 - 1,068
700mA	Luminous Flux (lm)	1897 - 2141	1,650 - 1,862	1,367 - 1,543
(18W)	Peak Intensity (cd)	34,369 -38,790	4,347 - 4,905	1,213 - 1,370
1050mA	Luminous Flux (lm)	2790 - 3148	2,427 - 2,739	2,011 - 2,270
(27W)	Peak Intensity (cd)	50,549 - 57035	6,394 - 7,216	1,785 - 2,015

## FIRA PRO - BEAUTIFUL, DYNAMIC LIGHT

PULSAR





(A	ll Channels On)	12°	20°	40°	80°	12° × 60°
<b>RGBW</b> (5700K)	Luminous Flux (lm)	1,078	1,077	1,071	1,069	1,054
	Peak Intensity (cd)	16,281	4,755	1,427	791	4,277
RGBW (2700K)	Luminous Flux (lm)	896	895	890	889	876
	Peak Intensity (cd)	13,532	3,956	1,186	658	3,554
RGBA (1700K)	Luminous Flux (lm)	834	833	829	827	816
	Peak Intensity (cd)	12,596	3,682	1,104	612	3,311
Tunable White	Luminous Flux (lm)	1,660	1,659	1,649	1,646	1,623
	Peak Intensity (cd)	25,071	7,324	2,197	1,219	6,586

## FIRA ULTRA - POWERFUL, DYNAMIC LIGHT

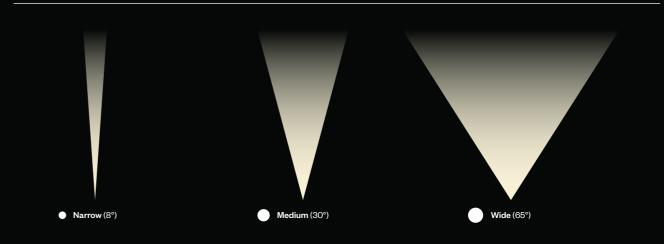
PULSAR



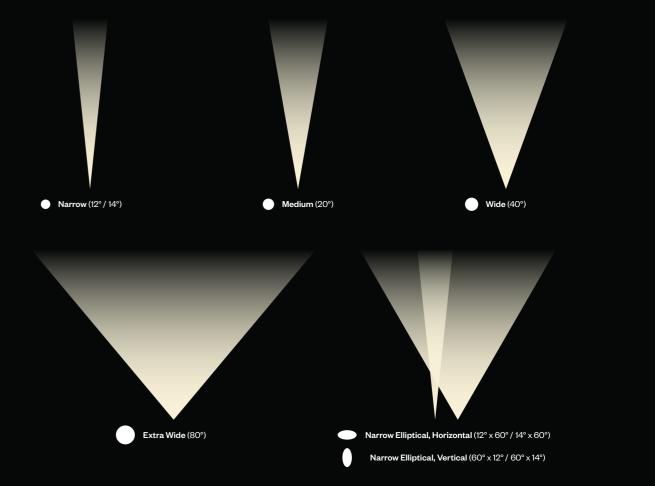


(A	ll Channels On)	14°	20°	40°	80°	14° × 60°
RGBW (5700K)	Luminous Flux (Im)	1,259	1,258	1,250	1,248	1,231
	Peak Intensity (cd)	15,186	5,926	1,597	881	4,211
RGBW (2700K)	Luminous Flux (lm)	1,105	1,104	1,098	1,096	1,081
	Peak Intensity (cd)	13,329	5,206	1,403	773	3,698
<b>RGBA</b> (1700K)	Luminous Flux (Im)	1,092	1,091	1,085	1,083	1,068
	Peak Intensity (cd)	13,172	5,144	1,386	764	3,654
Tunable White	Luminous Flux (Im)	1,904	1,903	1,891	1,887	1,861
	Peak Intensity (cd)	22,966	8,965	2,415	1,331	6,366

## **LIGHT DISTRIBUTIONS - FIRA**



## LIGHT DISTRIBUTIONS - FIRA PRO | FIRA ULTRA



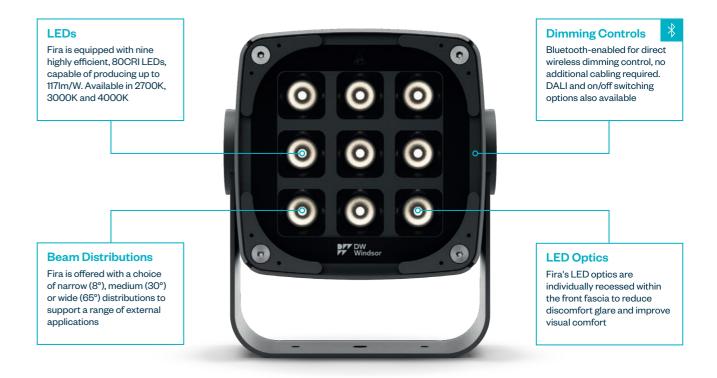


## **Design features**

Fira draws on the combined technical knowledge of DW Windsor and Pulsar to deliver a feature-rich external lighting solution capable of delivering exceptional light quality and performance.



Fira | Fira Pro | Fira Ultra





Fira

Fira Pro | Fira Ultra



## **Control options**

Lighting control systems offer many benefits, from increased flexibility to helping lower energy consumption. Fira can be specified with multiple control options to suit the individual needs of your scheme.

**FIRA** 





DALIZ



### On/Off

Non-dimmable, provides illumination at a fixed light output. Supplied with a pre-wired 3-core cable.

### **DALI**

Allows for control, configuration and diagnostic of individual or grouped luminaires via a hardwired connection. Supplied with a pre-wired 5-core cable.

#### Bluetooth

Switch, dim and configure luminaires wirelessly for increased convenience and flexibility. Manage luminaires individually or in a group using scenes. Controlled directly from a smart device, no additional controls cabling required.

For more information visit: dwwindsor.com/fira

## FIRA PRO | FIRA ULTRA





### **DMX512**

An industry standard control protocol for dynamic lighting systems that is both incredibly fast and robust. Ideal for schemes that feature multiple luminaires as it ensures transitions remain synchronised.

For more information visit: dwwindsor.com/fira

### **RDM Compliant**

Provides bi-directional communication between a control system and luminaire. Used during commissioning as well as for status reporting, including temperature monitoring.





## PULSAR

## Optical accessories & finishes

## **OPTICAL ACCESSORIES**







Full Snoot



Louvre

## **STANDARD FINISHES**



**Black** (RAL 9005)



**White** (RAL 9016)



Aluminium (RAL 9006)



Metallic Grey (RAL 9007)



Metallic Dark Grey (DB 703)

## Fira product codes

Product		
Fira	FIR9	FIR9
Control		
Switched (on/off - default)	SW	
DALI	DALI	SW
Bluetooth	BLU	
Colour Temperature		
2700K	27	
3000K	30	30
4000K	40	
Light Distribution		·
Narrow - 8°	N	
Medium - 30°	M	М
Wide - 65°	W	
Drive Current	· · · · · · · · · · · · · · · · · · ·	
350mA (9W)	350	
500mA (13W)	500	700
700mA (18W)	700	700
1050mA (27W)	501	
Colour Finish	<del>`</del>	·
RAL 9016 White	40	
RAL 9005 Black	10	
RAL 9006 Aluminium	26	10
RAL 9007 Metallic Grey	27	
DB 703 Metallic Dark Grey	DB	
Wiring		
Pre-wired with 1m cable (default)	1M	
Pre-wired with 5m cable	5M	1M
Pre-wired with 10m cable	10M	
Accessories (ordered separately)	· · · · · · · · · · · · · · · · · · ·	
Louvre	LVR	
Snoot	SNT	
Half Snoot	HSNT	SNT
Column Clamp (Ø60mm / Ø76mm)	CC	
Pole Top Linear Bracket (Ø76mm)	PT	

Example

## Fira Pro & Fira Ultra product codes

		Code	Exampl
Product			
Fira		FIRA	FIRA
Version			
Fira Pro		104	104
	Fira Ultra	109	104
Control			
DMX + RDM		RDM2	RDM2
Light Source			·
RGBW 5700K		VC	
RGBW 2700K		A3	\/O
RGBA 1700K		A1	VC
Tunable White		TW	
Colour Finish			•
RAL 9016 White		40	
RAL 9005 Black	10		
RAL 9006 Aluminium	26	26	
RAL 9007 Metallic Grey	27		
DB 703 Metallic Dark Grey	DB		
Light Distribution			
Narrow - 12°	Narrow - 14°	012 / 014	
Medium - 20°	Medium - 20°	020	
Wide - 40°	Wide - 40°	040	040
Extra Wide - 80°	Extra Wide - 80°	080	040
Vertical Elliptical - 60°x12°	Vertical Elliptical - 60°x14°	V02	
Horizontal Elliptical - 12°x 60°	Horizontal Elliptical - 14°x 60°	H02	
Not Applicable			
Not Applicable		XX	XX
Not Applicable			
Not Applicable		XX	XX











#### **Features**

A compact, high-performance architectural luminaire range

Durable construction for product longevity

Advanced thermal design to aid luminaire performance

Multiple light source options including RGBW, RGBA & Tunable White

#### **Light Sources**

Fira - monochromatic white light (2700K, 3000K, 4000K)

Fira Pro & Fira Ultra - dynamic light (RGBW, RGBA, Tunable White)

#### **Beam Options**

Fira - 8° / 30° / 65°

Fira Pro – 12° / 20° / 40° / 80° / 12° x 60° / 60° x 12°

Fira Ultra –  $14^{\circ}$  /  $20^{\circ}$  /  $40^{\circ}$  /  $80^{\circ}$  /  $14^{\circ}$  x  $60^{\circ}$  /  $60^{\circ}$  x  $12^{\circ}$ 

### Lifetime prediction

Fira - in excess of 100,000 (L90)

Fira Pro & Fira Ultra - in excess of 100,000 (L70)

#### **Total luminaire lumens**

Fira - 684 - 3,148lm / 27W

Fira Pro - 1,078 - 1,660lm / 30W

Fira Ultra - 1,259 - 1,904lm / 32W

#### **Colour rendering index**

Fira - 80Ra (2700K / 3000K / 4000K)

Fira Pro & Fira Ultra - 90Ra (RGBW / Tunable White)

### Total measured luminaire efficacy

Fira - up to 117lm/W

### **Operating voltage**

Fira - 220 - 240V AC @ 50/60Hz

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

#### **Control**

Fira - On/Off / DALI / Bluetooth Wireless

Fira Pro & Fira Ultra - DMX 512 + RDM for easy setup

#### **Drive current**

Fira - 350mA / 500mA / 700mA / 1050mA

#### Range of movement

**Pan:** 360°

Tilt: -45° to +90°

#### **Mounting**

Surface (horizontal and vertical)

Column

#### **Product colours**

RAL 9016 White

RAL 9005 Black

RAL 9006 Aluminium

RAL 9007 Metallic grey

DB 703 Metallic dark grey

Other RAL colours on special request

#### **Materials**

Body: High-pressure die-cast aluminium (LM6)

Glazing: Toughened glass

Seals: Silicone

Finish: Polyester powder coat

#### Installation and maintenance

Available with various cable tail options prefitted

Mounting plate accessory available

Operational temperature range up to -40°C to +40°C\*\*

\* Class II on request \*\* 50°C for Fira Pro & Fira Ultra





DW Windsor is part of the Luceco Group



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