



Fira

The small but powerful projector





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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

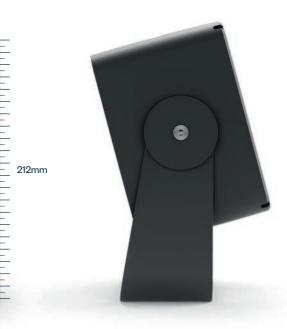


Historic buildings



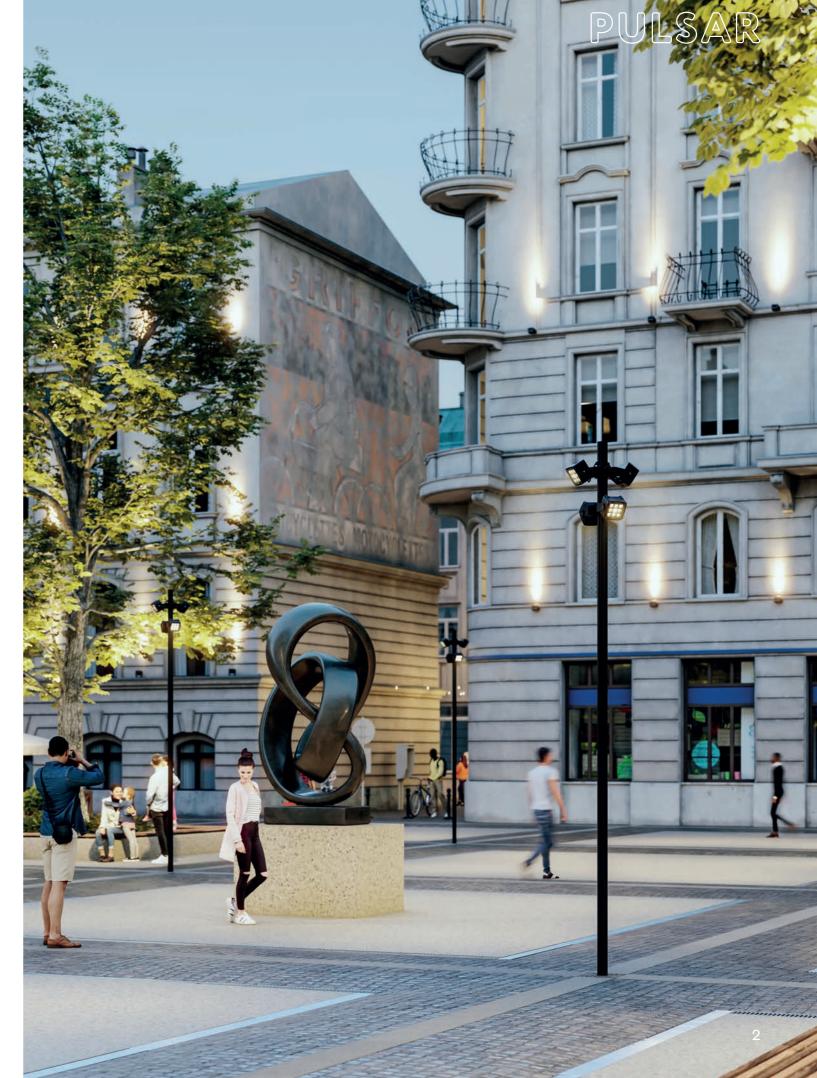
Town squares & plazas





175mm

106mm







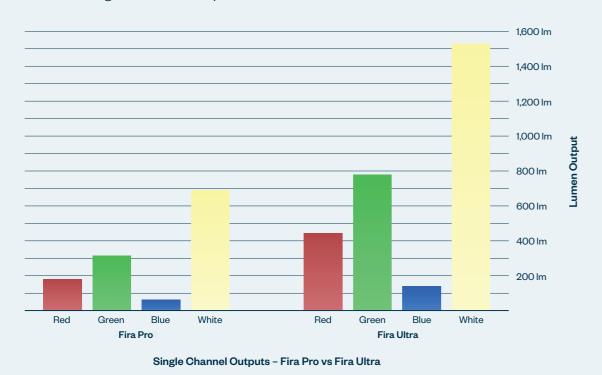
Maximum performance

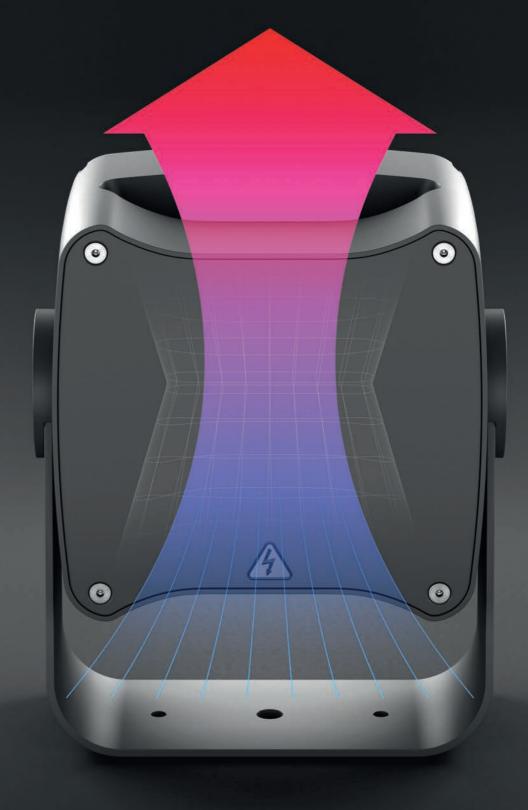
Featuring precision optics and our latest LED technical innovations, Fira delivers powerful, targeted illumination with precisely controlled beams and perfect uniformity. So whether you're highlighting an architectural feature, or illuminating a building façade, with Fira you can be sure light is directed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

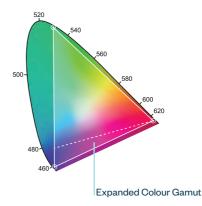


Tunable White

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

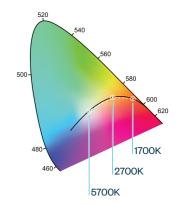
VividCOLOUR

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

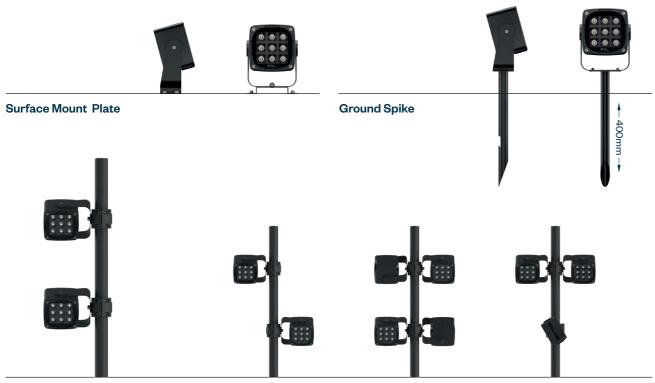
Offered with our 5-year warranty as standard, and a rated LED lifetime of up to 100,000 hours





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







(2700K - 4000K)		8°	30°	65°	
350mA (9W)	Luminous Flux (lm)	948 - 1070	825 - 931	684 - 772	
	Peak Intensity (cd)	17,175 - 19,386	2,173 - 2,452	607 - 685	
500mA (13W)	Luminous Flux (Im)	1478 - 1669	1,286 - 1,452	1,066 - 1,203	
	Peak Intensity (cd)	26,778 - 30,238	3,388 - 3,825	946 - 1,068	
(18\M)	Luminous Flux (Im)	1897 - 2141	1,650 - 1,862	1,367 - 1,543	
	Peak Intensity (cd)	34,369 -38,790	4,347 - 4,905	1,213 - 1,370	
1050mA (27W)	Luminous Flux (Im)	2790 - 3148	2,427 - 2,739	2,011 - 2,270	
	Peak Intensity (cd)	50,549 - 57035	6,394 - 7,216	1,785 - 2,015	

FIRA PRO - BEAUTIFUL, DYNAMIC LIGHT

PULSAR





(A	ll Channels On)	10°	20°	40°	80°	10° x 60°
RGBW (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 (Im)	896	895	890	889	876
	Peak Intensity (cd)	13,532	3,956	1,186	658	3,554
RGBA (1700K)	Luminous Flux (Im)	834	833	829	827	816
	Peak Intensity (cd)	12,596	3,682	1,104	612	3,311
Tunable White	Luminous Flux (Im)	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

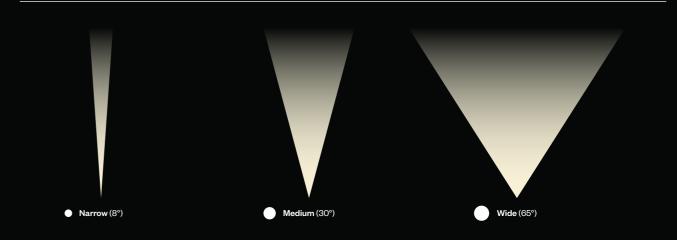
PULSAR



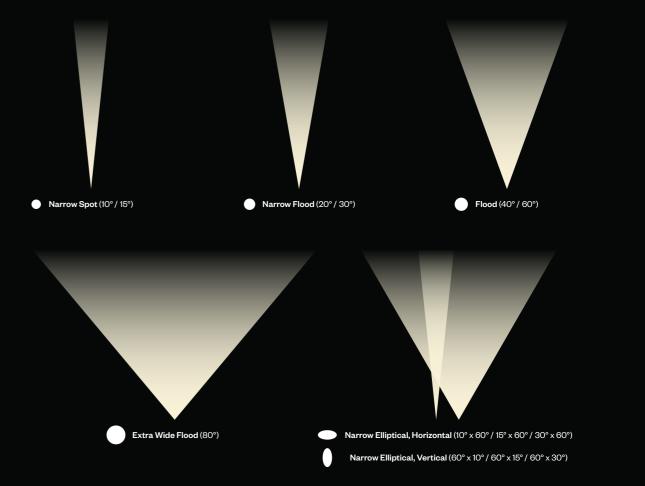


(All Channels On)		10°	20°	40°	80°	10° × 60°
RGBW (5700K)	Luminous Flux (Im)	1,259	1,258	1,250	1,248	1,231
	Peak Intensity (cd)	15,186	5,926	1,597	881	4,211
RGBW (2700K)	Luminous Flux (Im)	1,105	1,104	1,098	1,096	1,081
	Peak Intensity (cd)	13,329	5,206	1,403	773	3,698
RGBA (1700K)	Luminous Flux (Im)	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



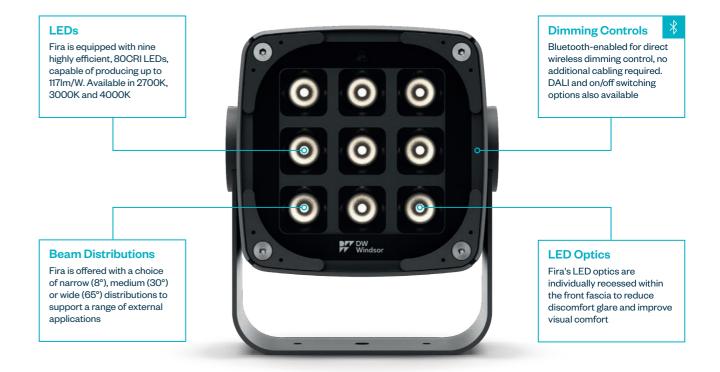


Design features

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)



Corten Brown

Fira product codes

	Code	Exampl		
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			
700mA (18W)	700	700		
1050mA (27W)	501			
Colour Finish		·		
RAL 9016 White	40			
RAL 9005 Black	10			
RAL 9006 Aluminium	26	40		
RAL 9007 Metallic Grey	27	10		
DB 703 Metallic Dark Grey	DB			
Corten Brown	CB			
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			

Fira Pro & Fira Ultra product codes

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	vc	
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	20	
DB 703 Metallic Dark Grey	DB		
Corten Brown	CB		
Light Distribution			
Narrow Spot (10° / 15°)	010 / 015		
Narrow Flood (20° / 30°)	020 / 030		
Flood (40° / 60°)	040 / 060	040	
Extra Wide Flood 80°	080	040	
Vertical Elliptical (60°x 10° / 60°x 15° / 60°x 30°)	V01/V02/V03		
Horizontal Elliptical (10°x 60° / 15°x 60° / 30°x 60°)	H01/H02/H03		
Not Applicable			
Not Applicable	XX	XX	
Not Applicable			
Not Applicable	XX	XX	



IP66 | IK09 | CLASS I | CLASS II

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 & Ultra (Symmetric) – 10° / 15° / 20° / 30° / 40° / 60° / 80°

Fira Pro & Ultra (Elliptical) – $10^{\circ} \times 60^{\circ}$ / $15^{\circ} \times 60^{\circ}$ / $30^{\circ} \times 60^{\circ}$

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

Corten brown

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*

* 50°C for Fira Pro & Fira Ultra





DW Windsor is part of the Luceco Group

DW Windsor

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