

PF5 LED KIT



Improve your PF5 tunnel lighting with our sustainable LED retrofit kit

As part of our commitment to preserving heritage while delivering the latest in cutting-edge technology, we have developed the PF5 LED KIT. This sustainable LED retrofit solution is specifically designed to extend the lifespan of your existing PF5 tunnel luminaires, providing the full benefits of modern LED technology.

Built to withstand even the most challenging environments, the PF5 luminaire's robust housing has stood the test of time. With the PF5 LED KIT, you can continue to rely on this proven tunnel lighting solution while enjoying the exceptional efficiency of a modern LED platform. Benefit from significant cost and energy savings, without compromising on performance or durability.

Maximise the potential of your existing PF5 luminaires and create a sustainable, energy-efficient tunnel lighting system.



Concept

The PF5 LED KIT is a comprehensive LED retrofit solution, including the LED modules and an associated gear tray. It can be tailored to meet the specific needs of your PF5 tunnel retrofit project. The kit comes in two parts – the LED light source and the gear compartment – both of which can be easily mounted within the existing PF5 luminaire housing.

The tool-free design of the PF5 luminaire allows easy access to internal components. The LED lighting module is securely attached to the luminaire frame with two side brackets, while the gear tray is mounted into the luminaire body using similar bracket types. The LED module and gear compartment are connected via tool-less connectors, ensuring seamless, error-proof installation.

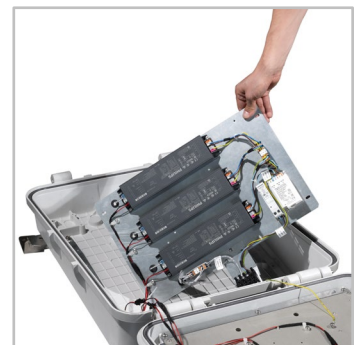
In addition to extending the lifespan of your existing PF5 luminaires, the PF5 LED KIT advanced optical technology enhances visibility in your tunnel, making it a safer environment. Its LED modules are equipped with the latest Schröder LensoFlex® photometric engine, offering high quality lighting, superior efficiency and a wide variety of light distributions. With various symmetrical photometries available, the PF5 LED KIT can address diverse PF5 lighting retrofit requirements. Optional reflectors are also available to provide counter-beam lighting solutions for specific tunnel zones.

The gear compartment houses the latest in electrical components, including the drivers, surge protection device and fuses, ensuring robust, reliable performance over time.

Give your PF5 luminaires a second life, and let's build more energy-efficient, sustainable tunnels together.



The advanced LED technology of the PF5 LED KIT maximises the efficiency of your existing PF5 luminaires, creating more comfortable, safer tunnel environments.



This retrofit kit offers fast, easy integration into the PF5 luminaire's body.



With its tool-less connector system, the PF5 LED KIT provides convenient, error-proof installation.

TYPES OF APPLICATION

- TUNNELS & UNDERPASSES

KEY ADVANTAGES

- Sustainable and circular: replace only the components you need and avoid unnecessary waste
- Maximised savings in energy and maintenance costs
- LensoFlex®4 versatile solutions for high-end photometries maximising comfort and safety
- Easy and fast installation
- Fast ROI thanks to long life span and reduced maintenance



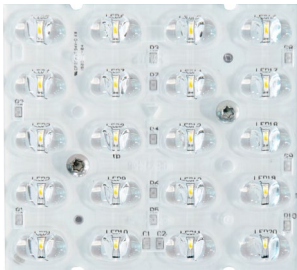
Thanks to its long lifespan and durability, the PF5 LED KIT considerably reduces maintenance activities.



LensoFlex®4

LensoFlex®4 maximises the heritage of the LensoFlex® concept with a very compact yet powerful photometric engine based upon the addition principle of photometric distribution. The number of LEDs in combination with the driving current determines the intensity level of the light distribution. With optimised light distributions and very high efficiency, this fourth generation enables the products to be downsized to meet application requirements with an optimised solution in terms of investment.

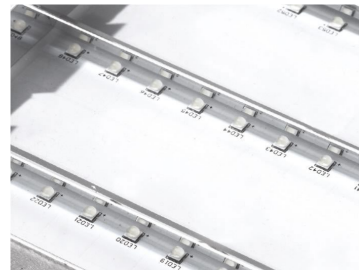
LensoFlex®4 optics can feature backlight control to prevent intrusive lighting, or a glare limiter for high visual comfort.



ReFlexo™

Using metal reflectors with a superior reflective co-efficient, the ReFlexo photometric engine delivers high performance for specific applications such as counter beam lighting in tunnels or very extensive light distributions for sports or apron lighting.

Another key advantage of the ReFlexo is its' ability to direct all the light to the front of the luminaire, ensuring that no back light is emitted. This photometric engine guarantees glare free lighting for excellent visual comfort and the creation of ambiance.



GENERAL INFORMATION

Recommended installation height	3m to 7m 10' to 23'
FutureProof	Easy replacement of the photometric engine and electronic assembly
CE mark	Yes

HOUSING AND FINISH

Housing	Galvanised steel
Optic	Aluminium reflector PMMA
Access for maintenance	Tool-less access to gear compartment

OPERATING CONDITIONS

Operating temperature range (Ta)	-40°C up to +45°C / -40° F up to 113°F
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· Depending on the luminaire configuration. For more details, please contact us.

ELECTRICAL INFORMATION

Electrical class	Class I EU
Nominal voltage	220-240V – 50-60Hz
Surge protection options (kV)	10
Electromagnetic compatibility (EMC)	EN 55015 / EN 61000-3-2 / EN 61000-3-3 / EN 61547
Control protocol(s)	1-10V, DALI

OPTICAL INFORMATION

LED colour temperature	4000K (Neutral White NW 740)
Colour rendering index (CRI)	>70 (Neutral White NW 740)

LIFETIME OF THE LEDS @ TQ 25°C

All configurations	100,000h - L95
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· Lifetime may be different according to the size/configurations. Please consult us.

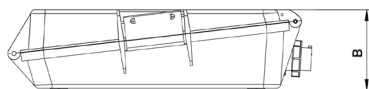
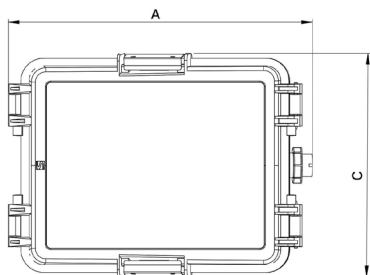
DIMENSIONS AND MOUNTING

AxBxC (mm | inch) 736x195x545 | 29.0x7.7x21.5

Weight (kg | lbs) 17.5 | 38.5

Mounting possibilities Retrofit kit

· *Retrofitting internal components has no impact on the luminaire's external dimensions.*





	Luminaire output flux (lm)		Power consumption (W)		Luminaire efficacy (lm/W)
	Neutral White NW 740		Min	Max	
Number of LEDs	Min	Max	Min	Max	Up to
20	4900	5800	39	46	133
40	9800	11700	76	89	137
60	14700	15600	112	112	140
80	22100	23400	178	178	132
120	27100	28800	204	204	141
160	30700	32600	218	218	150
200	32500	34500	225	225	154
240	34600	36700	234	234	157

Tolerance on LED flux is $\pm 7\%$ and on total luminaire power $\pm 5\%$