

| CONTILLED



Schröder





## CHARACTERISTICS – LUMINAIRE

Tightness level:	IP 66 LEDSafe® (*)
Impact resistance (glass):	IK 08 (**)
Nominal voltage:	230V - 50Hz
Electrical class:	II (*)
Weight (total):	7kg

(\*) according to IEC - EN 60598 - note: class I, connection via external earth

(\*\*) according to IEC - EN 62262

## APPLICATIONS

- Road and motorway tunnels
- Subways

## KEY ADVANTAGES

- ThermiX® and LEDSafe®: maintain performance and safety over time
- Maximised savings in energy and maintenance costs
- Right lighting through LensoFlex®2 offering high performance photometry, comfort and safety
- Flexibility: variable quantity of LED modules to adapt photometry and light output for different tunnel applications
- FutureProof: photometric engine is easy to replace on-site
- Durable and recyclable materials

## CONTINUOUS LED LINE IN TUNNEL LIGHTING

The ContiLED luminaire was developed for continuous line lighting in tunnels.

It not only provides the required lighting levels with significant energy savings but also great visual comfort to guide motorists safely.

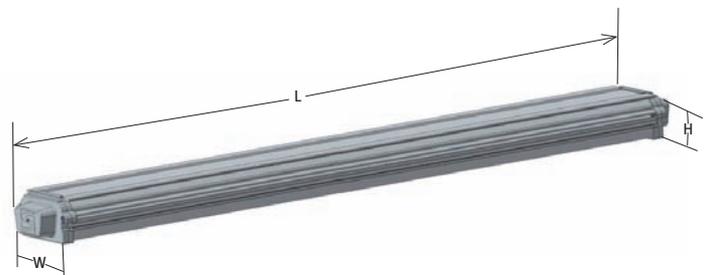
The ContiLED offers variable combinations of 4 LED modules (from 4 to 16) and optics to fully meet the specific needs of many different tunnel applications. The LED modules are located on an internal slider which can be easily removed, allowing replacement at the end of its service life in order to take advantage of future technological developments.

The ContiLED is composed of robust materials - an anodised extruded aluminium profile and a glass protector - making it highly resistant to shocks and corrosion within harsh tunnel environments.

## OPTIONS

- External power supply - driver box
- Assembly kit for luminaire lateral clamping
- Female counter plug for connecting an external driver
- Connector including a shunt (termination last device)
- Interconnection cable of 30 or 90 cm

## DIMENSIONS



ContiLED	
H	67mm
W	124mm
L	1202mm or 602mm

## TOTAL SOLUTION

The driver and control system are placed externally and can be adapted to the customer requirements. Depending on the project, the control system can be defined or even integrated into the backbone system of the customer. Schröder is offering also emergency lighting, road marking and fixtures for service tunnels and railways that can complete your tunnel requirements.

## LENSOFLEX®2

The ContiLED is equipped with second generation LensoFlex®2 photometric engines that have been specifically developed for lighting spaces where the well-being and safety of people using the environments are essential. This system is based upon the addition principle of photometric distribution. Each LED is associated with a specific lens that generates the complete photometric distribution of the luminaire. It is the number of LEDs in combination with the driving current that determines the intensity level of the light distribution.

## PERFORMANCE AND FLEXIBILITY

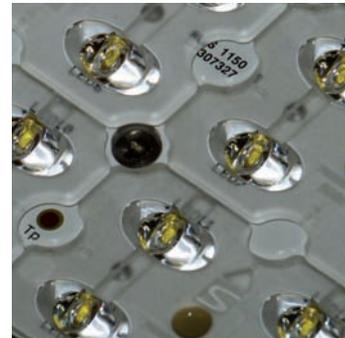
The ContiLED is equipped with photometric engines composed of modular quantities of LEDs so that they can offer a wide range of lumen packages. This flexibility ensures that the light distributions are specifically adapted to the real needs of the tunnel to be lit.

## FUTUREPROOF

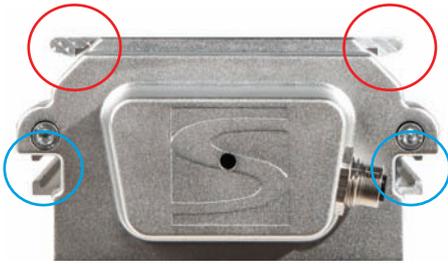
Using state-of-the-art technology, ContiLED has been designed to fulfil the FutureProof concept.

The photometric engine is IP 66 sealed to protect the LEDs and lenses from coming into contact with the harsh environment of the tunnel and so maintains photometric performance over time. This design offers the best protection for safety in the tunnel.

The FutureProof concept enables any version of the luminaire to be easily upgraded to take advantage of potential developments.



MOUNTING



Two mounting possibilities:

- connection via clips at the top of the luminaire (red circles)
- connection via the grooves on the side (blue circles)



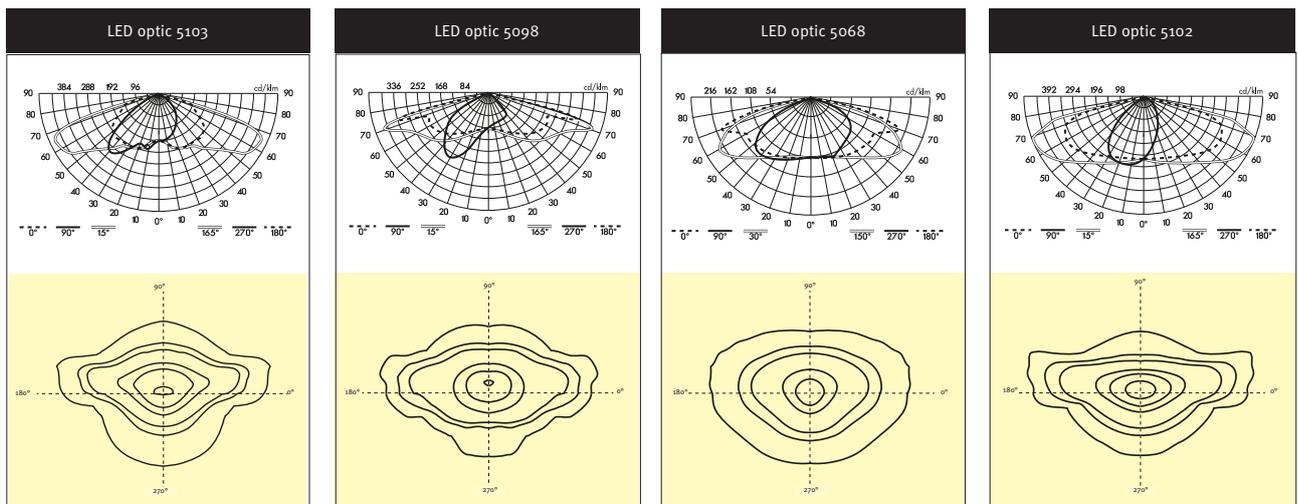
PHOTOMETRY

ContiLED LensoFlex®2										Lifetime residual flux @ t <sub>a</sub> 25°C (**)
Number of LEDs	Neutral white (4000K)	600 mm / 1200 mm				1200 mm only				@100.000h
		8 LEDs	16 LEDs	24 LEDs	32 LEDs	40 LEDs	48 LEDs	56 LEDs	64 LEDs	
Current: 350mA	Nominal flux (lm)*	1200	2400	3600	4800	6000	7200	8400	9600	90%
	Power consumption (W)	8	16	24	32	40	48	56	64	
Current: 500mA	Nominal flux (lm)*	1600	3100	4700	6300	7900	9500	11000	12600	
	Power consumption (W)	12	24	35	47	59	71	83	94	
Current: 700mA	Nominal flux (lm)*	2000	4000	6100	8100	10200	12200	14200	16300	
	Power consumption (W)	17	34	51	68	85	102	120	137	

(\*) The nominal flux is an indicative LED flux @ t<sub>a</sub> 25°C based on LED manufacturer's data. The real flux output of the luminaire depends on environmental conditions (e.g. temperature and pollution) and the optical efficiency of luminaire. Nominal flux depends on the type of LED in use and is likely to change in accordance with the continuous and rapid developments in LED technology. To follow the progress of the luminous efficiency of the LEDs used, please visit our website.

(\*\*) In accordance with IES LM-80 - TM-21.

LIGHT DISTRIBUTIONS



The ContiLED can be fitted with a combination of LED modules in two asymmetrical distributions to obtain a symmetrical light distribution, for example, 5098 and 5103.

## CONNECTION

The LED drivers have to be placed externally, either:

- in a central cabinet somewhere inside the tunnel
- inside a separate driver box that can be attached to the grooves that are foreseen at the side.

One driver could serve numerous ContiLED luminaires: all the LEDs inside are placed in a series and the number of LEDs can vary per luminaire depending on the project requirements.

The following connection options should be taken into consideration:

- the number of LEDs connected to one driver are not to exceed 80 (or 20 modules)
- the maximum number of modules inside one ContiLED is < 16 (64 LEDs)
- the last ContiLED should have a shunt connector attached.



Optional connector to attach the first ContiLED to the external driver



Interconnection cable of 30 or 90cm between the different ContiLED luminaires



Shunt connector to be attached to the last ContiLED luminaire



