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USPs

- Safety on worksite: properly illuminated paths and prevents being blinded in the train cabin.
- Long life-time: 60,000 hours and L80/B10.
- One power supply can illuminate up to 200 metres of railway track.
- Minimal light pollution.
- Fast installation and a short out of service time.
- Made in Europe.

RailLight®

The RailLight® luminaire is specifically developed for safety and lighting up paths alongside railtracks. The luminaire fits perfect in the hollow space of the railtrack.

Thanks to the plug and play coupling system, RailLight® can be installed fast and easily. Shut down time of the tracks will be minimal.

Due to the robust fixture (IK08) and the high quality light source, this product is durable (L80/B10, 60.000 hours) and cost-saving.

In addition to permanent placement, the RailLight® can also be used as a temporary solution. All RailLight® fixtures are developed and produced in Europe.

Available colours

Colour	Description
 Warm White 3000K	RailLight® WW 3000K D



## Technical specifications

### RailLight® 3000K D

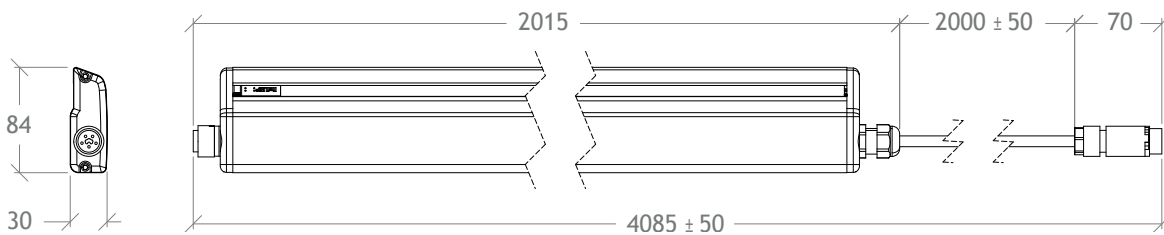
Product code [m]	70000
Power (24 V DC)	1.6 W/m
Power (25 V DC)	1.7 W/m
CCT <sup>1</sup>	3036 K
CRI	83.6
Luminous flux <sup>1</sup>	265 lm
Luminous efficiency <sup>1</sup>	128 lm/W
Section length	100 mm
LED type	3014
Number of LEDs	7 per section/70 per metre
Min. operating voltage	23 V DC
Max. operating voltage	25 V DC
Beam angle	50°
Dimensions (L x W x H)	2015 x 30 x 84 mm
Dimmable	PWM dimming, 24 V DC Common Anode
MacAdam Steps	2 steps
Weight	4 kg
IK rating	IK08
Expected lifetime	L80/B10 > 60000 hrs @ Tc = 40°C
Ingress protection <sup>2</sup>	IP67
Storage temperature	-40 ... 80°C
Operating temperature <sup>3</sup>	-30 ... 55°C

<sup>1</sup> Typical values are given, which due to tolerances in components and production process can vary up to 10%.

<sup>2</sup> The ledstrip and cables are IP67, 30 minutes up to 1.5 m deep. Water can enter and exit the aluminium luminaire.

<sup>3</sup> Max. connection length between -30°C and -20°C is 70% of normal total length.

### Product drawing

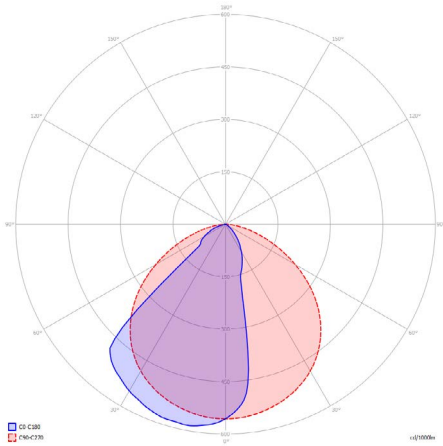


## Photometric information

In the process of lighting design and calculations, the luminous flux and beam angle alone are not enough information to create a representative and realistic calculation or render. Therefore, photometric are available which can be used for simulations with photometric software.

The information is available in two different file formats:

- Eulumdat (.ldt)
- IES LM-63-1995 (.ies)



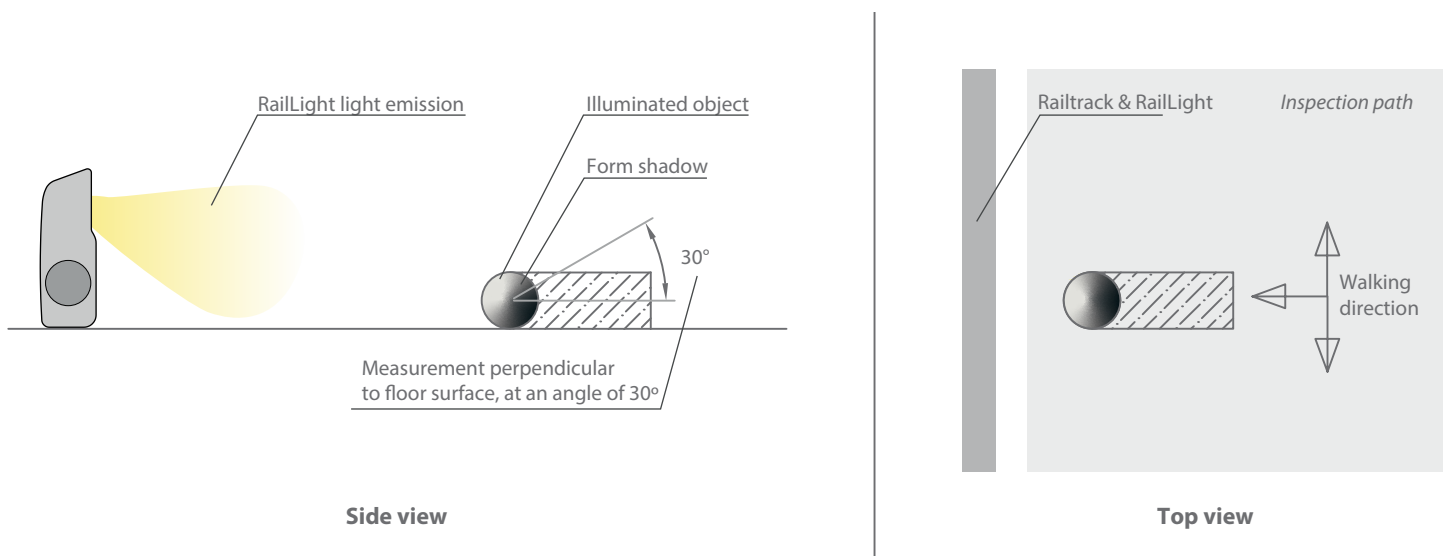
### How to measure

Light striking a surface can be divided into horizontal and vertical illuminance. For horizontal illuminance the amount that lands on a horizontal surface is measured. Objects can be seen when shape or colour differ from its background and light levels are high enough.

Vertical illuminance measures the amount of light that lands on a vertical plane or object. Lighting objects from the side will create large cast shadows and provide higher contrast.

For the application of RailLight®, observing objects is more important than recognizing objects. Colour, shape and detail are less relevant for this type of lighting. The RailLight® illuminates from the side which creates the greatest possible shadow effect. The objects will be illuminated, creating an object shadow and casting a shadow on the footpath. The contrast makes it easier to distinguish objects due to the developed "light-dark" shadow effect. This results in a safe working environment.

To guarantee the relationship of both lighting methods and the most ideal situation (horizontal-vertical illuminance), a measurement plane perpendicular to the floor surface at an angle 30° is suggested. See the image below for a visual explanation.



## Symbols

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Manufacturer's declaration that the product meets the applicable EC directives.



Restriction of Hazardous Substances (RoHS): product complies with the RoHS directive and each homogeneous material does not exceed the limits for the materials mentioned under the RoHS directive (Pb, Hg, Cd, Cr6+, PBB and PBDE).



Dust-tight, no ingress of dust. Protected against the effects of temporary immersion in water (Immersion in water at a maximum depth of 1 metre up to a half hour).



Protected against impact energy of 5 joules.



Operating voltage of 24 V DC.



Electrical appliance class III: this product is designed to be supplied from an extra-low voltage ( $\leq 60.0$  V DC or  $\leq 42.4$  V AC).



Product is resistant against ultraviolet (UV) light or sunlight. Non-UV resistant products can degrade or discolour fast when exposed to UV light.



Product can be cleaned with normal cleaning agents.



This product can be stored and used below 0 degrees Celsius. Verify the minimum storage and operating temperature in the datasheet or manual for the lowest temperature allowed.



The CRI value of this product is 80 or higher.



This product needs to be disposed of separately from normal household waste so it can be recycled. Verify the IP rating for proper use.



System guarantee of 5 years when the complete system consist of liniLED® products with the 5 years system warranty logo. Terms & conditions apply.



Suitable for mounting on all surfaces and suitable to cover with insulating material.

## Disclaimer

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