

Lediko[®]

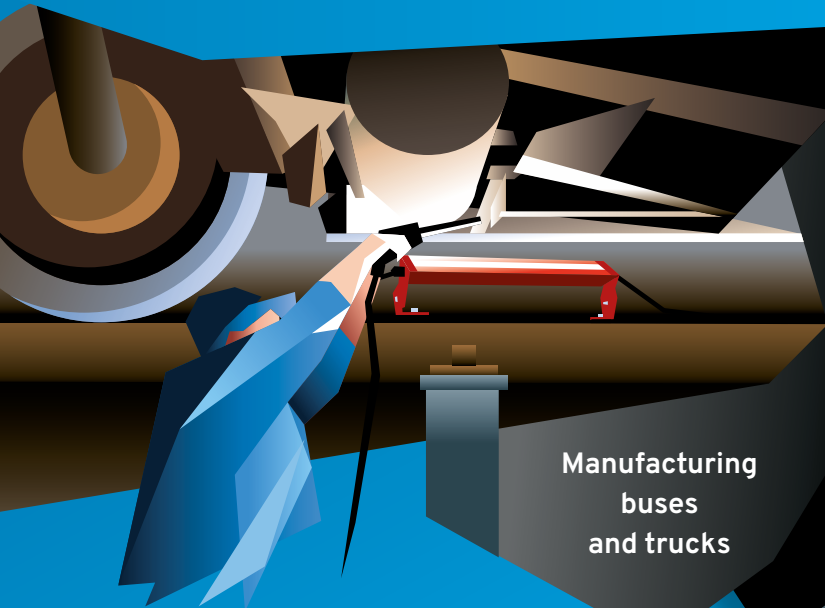
leding the way

ESLENE

Inspection LED lamp




Application of ESLENE



Manufacturing
buses
and trucks

Maintenance of all kinds of vehicles
(car workshops and services, train
and tram depots, military)

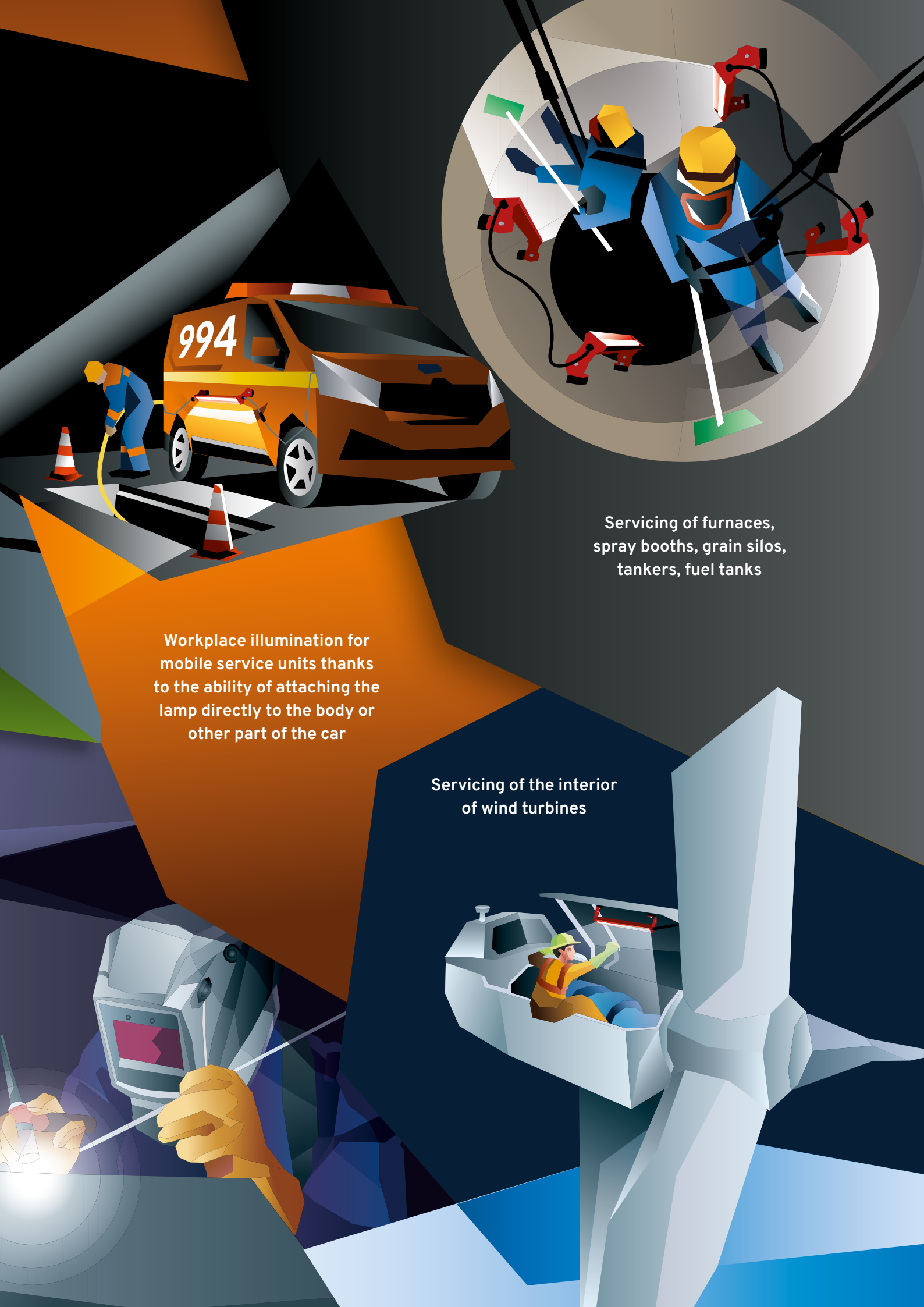


Manufacturing train cars
and engines

Ship and yacht building



Welding and construction
of large steel structures



Workplace illumination for mobile service units thanks to the ability of attaching the lamp directly to the body or other part of the car

Servicing of furnaces, spray booths, grain silos, tankers, fuel tanks

Servicing of the interior of wind turbines

Construction



We are specialists in providing light. Using all our knowledge we have decided to design a lamp that can work in confined spaces and in difficult conditions. During creation of the ESLENE lamp we were guided by three objectives.

The first objective was providing work safety. Thanks to using extra-low voltage, in the event of a damage to a power cord, the worker is protected from the electric shock. By introducing a modular design giving the ability of placing each lamp segment in a different place, we provide freedom and variability in setting lighting. The use of neodymium magnets eliminates the need for permanent mounting of the lamp. All it takes is a metal surface and the strong and stable magnets will hold the luminaire in place.

This is how the ESLENE was created – a lamp that brings light everywhere where the specialists need excellent visibility at work.

Modular construction (1–3 modules)

Mounting using neodymium magnetic holders

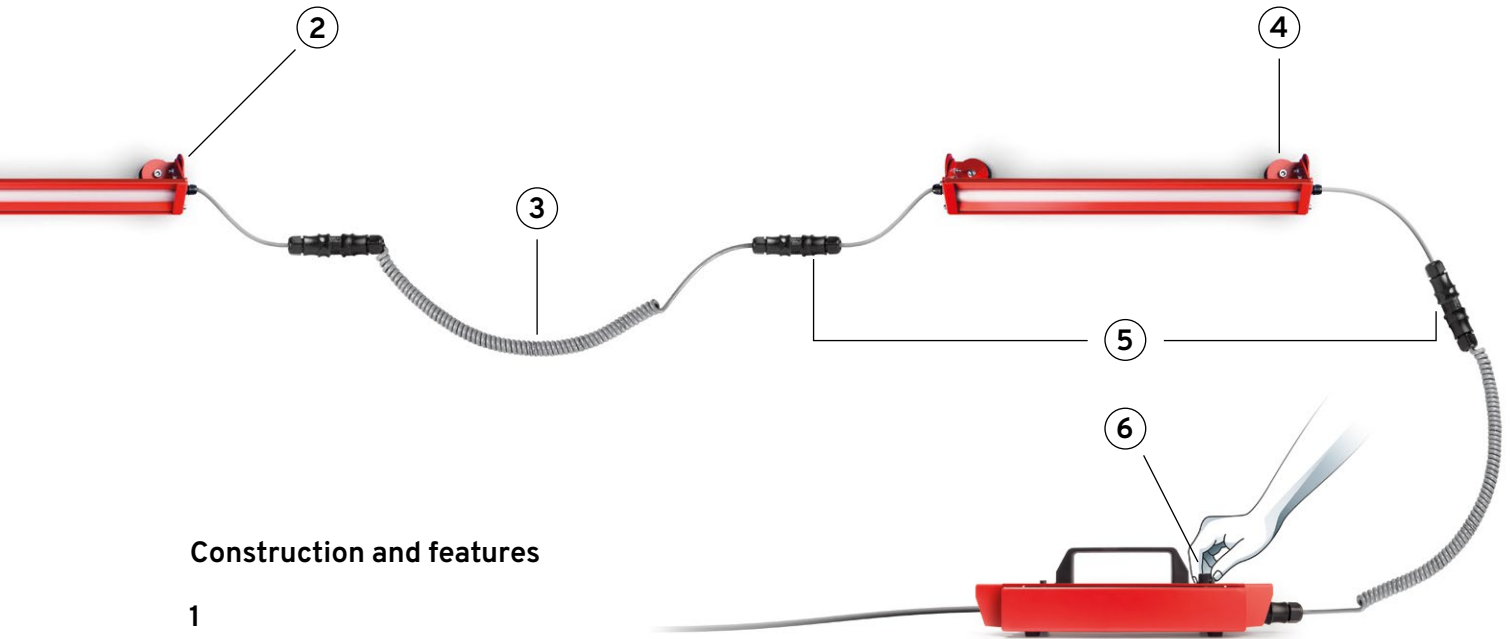
Lamps powered by extra-low voltage (resulting in working safety in the event of the damage to the power cord)

Ability to light untypical and hard-to-reach places

A 180-degree regulation of luminaire angle

Ability to work in harsh industrial environments thanks to the mechanical resistance and robust construction (aluminium housing)





Construction and features

1

Extra-low voltage in the lamp supply cords.

2

Holder allowing angle regulation of each segment.

3

Segments are connected using detachable, **3-metre-long** supply cords (straight or spiral).

4

A firm and powerful mounting to magnetic surfaces with strong **neodymium magnets**.

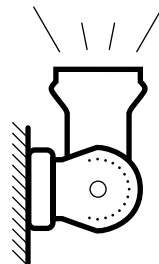
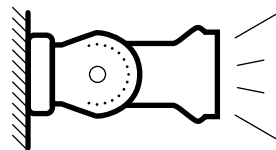
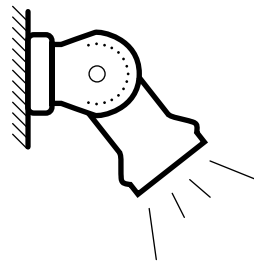
5

No of the possibility of making erroneous connection (a **male-type plug** on the side where the power feeds in; a **female-type plug** on the other side).

6

Brightness adjustment thanks to a five-step **potentiometer** mounted on the power supply unit casing.

Montage



modular lamp with ability to add three segments



mounting using neodymium magnetic holders



180°
ability to adjust lamp angle

Certificates

CE

RoHS

Made in Poland



Power

Power supply parameters

Voltage range	90–305 VAC, 127–431 VDC
Frequency range	47–63 Hz
Electrical insulation	Class II
Power factor	> 0,95 (@ 230 VAC)
Voltage for powering one segment	24 VDC (SELV)
Maximum power consumption	100 W



> 100,000 h

extended lifetime
of LED diodes

Lamp

Lamp parameters

Sealing class	IP55
Material	aluminium, PMMA, steel
Colour	raw aluminium, RAL 7040, 7046
Warranty	3 years
Operating temperatures	-20°C to +55°C



-20/+55°C

operating
temperature



3 years

warranty period

Light source

Light source parameters

Light source type	LED
Colour temperature ①	5,000 K, 4,000 K, 3,000 K (± 3%)
Colour Rendering Index	>80 / >90 / >95

① Other values available
at special request

Diode type:
Samsung
LM561B+



Luminous flux

Parameters of one segment at given power ^②

Total luminous flux (lm)	4,100
Power (W)	30
Efficacy (lm/W)	137
Number of diodes	70



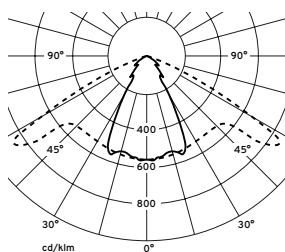
ability to adapt
the type of optics
depending on the
needs of a given
installation

- ② Tolerance for determining LED diodes' luminous flux:
Samsung $\pm 5\%$. Values for segment output streams
calculated for D2-type optical efficiency.

Photometry

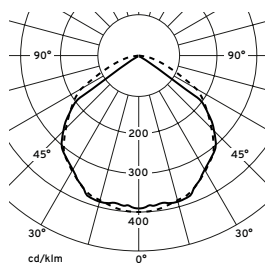
Optical cover B1

Angle $60^\circ \times 130^\circ$



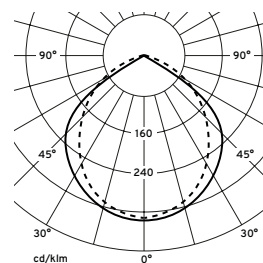
Optical cover D1

Angle $100^\circ \times 105^\circ$



Optical cover F1

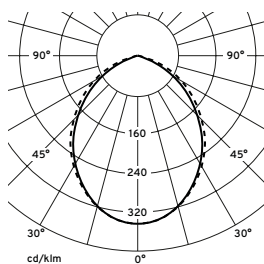
Angle $110^\circ \times 115^\circ$



Transparent optical cover (visible LED points)

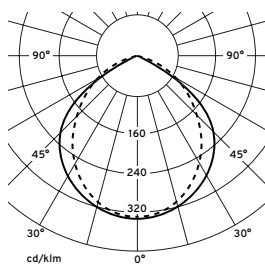
Optical cover B2

Angle $95^\circ \times 100^\circ$



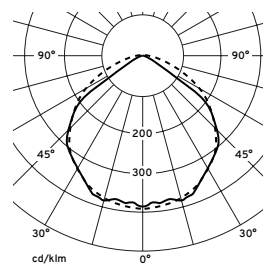
Optical cover D2

Angle $105^\circ \times 100^\circ$



Optical cover F2

Angle $110^\circ \times 100^\circ$



Frosted optical cover (fuzzy LED points)

System components

Segment

Product code see table on page 10



Power supply (1-3 segments)

Product code -



Straight 3 m cable for connecting segments

Product code 5610



Spiral 3 m cable for connecting segments

Product code 5645



Female power cable connector

Product code 775



Male power cable connector

Product code 3484



Powder coating (RAL palette)

Service code 2273

Segment labeling

Luminaire type	Segment length	Number of segments	LED module type	min. CRI	Colour temperature (K)	Metal parts finishing
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ESL	S	1	SP	8 (Ra=80)	40 (4,000 K)	0 (raw aluminium)
		2	Samsung	9 (Ra=90)	50 (5,000 K)	P (powder coating)
		3	LM561B+			

Type of wiring between segments	Type of mounting holder	Optics symbol	Optics finishing	Power supply unit type
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0 (straight cables)	0 (bracket for flat surfaces)	B (narrow 60°)	1 (transparent)	090L (90 W)
1 (spiral cables)	M (magnetic holder)	D (wide 120°)	2 (frosted)	060L (60 W)
	K (clip)	F (flat polycarbonate 120°)		

An example of segment code: ESL1-S1-SP840-PSM-B1-090L

Dimensions and weight

Segment	
Dimensions (mm)	570 x 120 x 59
Weight (kg)	1.6

Power supply	
Dimensions (mm)	390 x 140 x 115
Weight (kg)	2.3

Control

Brightness adjustment

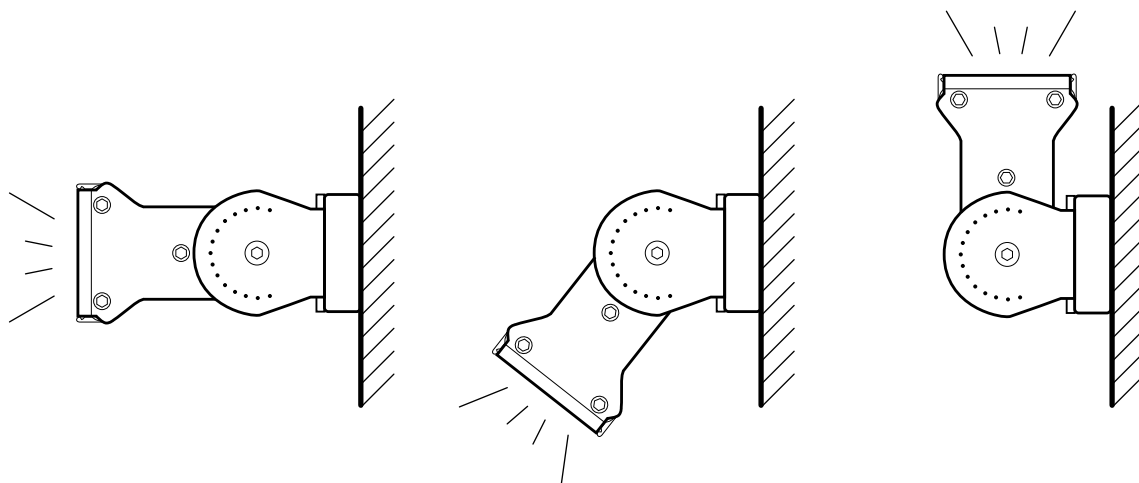
It is possible to change the measure of light intensity according to the user's needs and the location of the lamp by installing a five-step potentiometer mounted on the power supply unit casing.

Adding segments

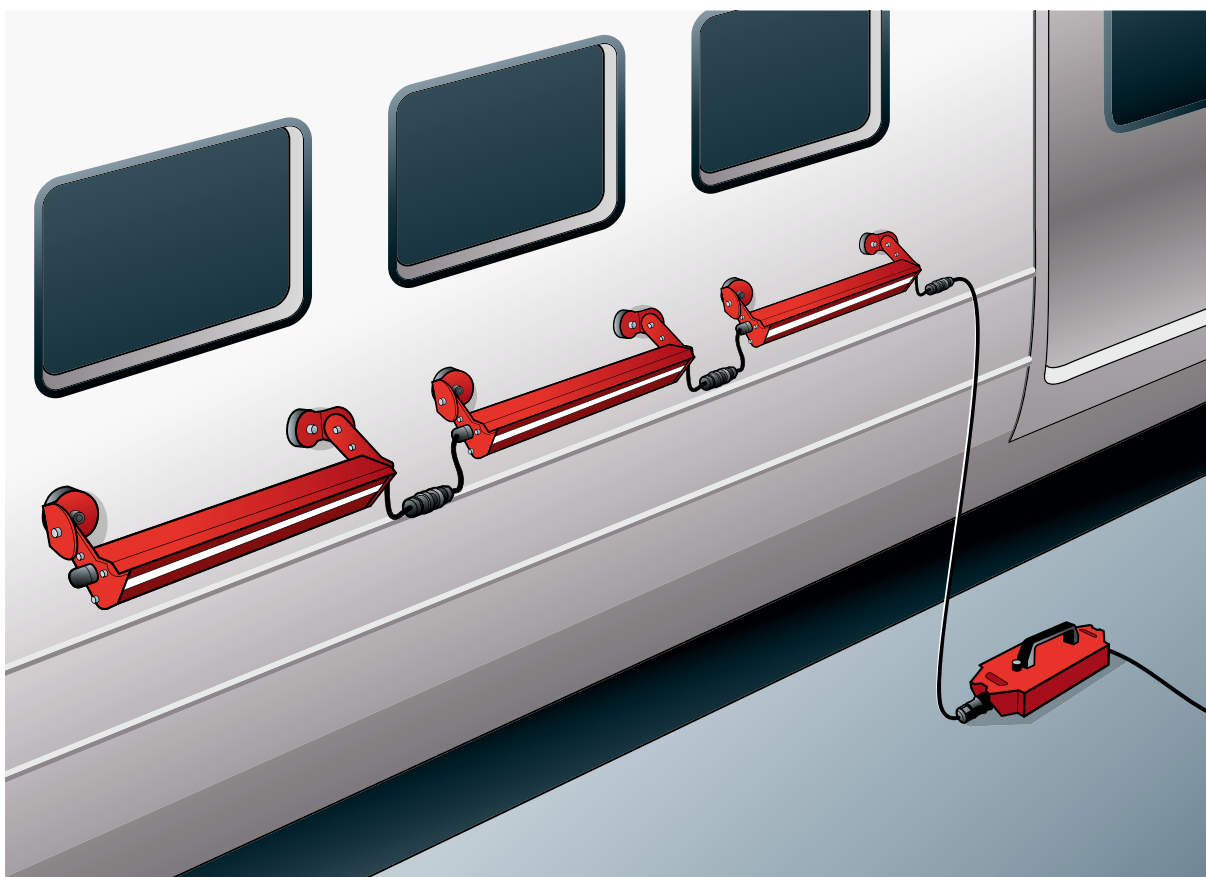
The luminaire can operate with one, two, or three segments connected. The power will adjust automatically. A low voltage (SELV circuit) is transferred between the power supply and the segments.

Installation method

Lamp holder adjustment range



View of the connected set mounted on a metal surface



Lediko®

leding the way



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