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The ECOdrive, POWERdrive and LINEARdrive are LED driver/controllers in an extremely compact housing designed for the control of LEDs with a constant current (ECOdrive and POWERdrive) or a constant voltage (LINEARdrive). These driver/controllers are perfect for indoor use in a network (DMX/DALI/0-10V) or in standalone applications. The intuitive user interface has 3 buttons and a display that can be used to set the number of channels, configure DMX or DALI, or select the show sequences and colours in standalone applications. The configuration menu can be closed to save the settings. The LED current of the ECOdrive and POWERdrive can be adjusted from 200mA to 1.4A in 50mA steps, as a result of which these LED driver/controllers are ideal for practically all all high power LED types and LED configurations. The LINEARdrive is ideally suited to the control of smaller or larger numbers of 12V or 24V LEDs. ShowMaster, supported on all eldoLED driver/controllers, enables you to upload show sequences for use in standalone mode. The TOOLbox and downloadable PC software enables you to create and manage your own show sequences.

**ECOdrive:** compact DMX/0-10V LED driver/controller. 4 channels are controlled by one LED current source, resulting in an efficiency of up to 95%. 12V-32VDC input voltage range. For high-brightness LEDs of up to 1.4A. Available in 15W, 30W and 45W models.

**POWERdrive:** LED driver/controller for DMX, DALI and 0-10V networks. Maximum power output of 180W. 12V-32VDC input voltage range (primary voltage). The current can be set individually for each of the 4 LED groups, providing you great flexibility in the control of the LEDs connected to the driver/controller. Available in 45W, 90W and 180W models.

**LINEARdrive:** the ideal solution for LED applications with a fixed supply voltage, typically 12V or 24V. Supply voltage range: 12V to 28V DC. Designed specifically for low low-power LEDs in applications consuming a current of up to 6A or 24A. Suitable for a wide range of standalone LED applications or for use in LED systems that are controlled by 0-10V or are part of a DMX or DALI network. Available in 6A (4 groups, each 1.5A) and 24A (4 groups, each 6A) versions.

### Art. No. Klemko number



4-channel LED-driver/controller for LEDs from 200mA to 1,400mA (adjustable in 50mA steps). 15 bit dimming and colour selection/control (RGBW). Dimmable via DMX and 0-10V.

**For constant current.**

#### 860310 EL-ECO-15

Primary voltage	: 12-32VDC, maximum current 500mA
Secondary voltage	: automatic
Secondary power output	: 15VA, total for all channels
Current output	: adjustable from 200mA to 500mA in 50mA steps.
Temperature	: -20°C to +50°C
Dimmable	: yes, from 0.5% to 100%
Weight	: 140 gram
Dimensions, LxWxH	: 153x50x23mm

#### 860312 EL-ECO-30

Primary voltage	: 12-32VDC, maximum current 1,050mA
Secondary voltage	: automatic
Secondary power output	: 30VA, total for all channels
Current output	: adjustable from 200mA to 1,050mA in 50mA steps.
Temperature	: -20°C to +50°C
Dimmable	: yes, from 0.5% to 100%
Weight	: 140 gram
Dimensions, LxWxH	: 153x50x23mm

#### 860314 EL-ECO-45

Primary voltage	: 12-32VDC, maximum current 1.5A
Secondary voltage	: automatic
Secondary power output	: 45VA, total for all channels
Current output	: adjustable from 200mA to 1,400mA in 50mA steps.
Temperature	: -20°C to +50°C
Dimmable	: yes, from 0.5% to 100%
Weight	: 140 gram
Dimensions, LxWxH	: 153x50x23mm

**Art. No. Klemko number**



4-channel LED-driver/controller for LEDs from 200mA to 500mA (adjustable in 50mA steps). 15 bit dimming and colour selection/control (RGBW). Dimmable via DMX/DALI/0-10V.

**For constant current.**

**860320 EL-POWER-45**

Primary voltage : 12-32VDC, maximum current 500mA  
 Secondary voltage : automatic  
 Secondary power output : 45VA, total for all channels  
 Current output : adjustable from 200mA to 500mA in 50mA steps.  
 Temperature : -20°C to +50°C  
 Dimmable : yes, from 0.5% to 100%  
 Weight : 190 gram  
 Dimensions, LxWxH : 193x50x23mm

**860322 EL-POWER-90**

Primary voltage : 12-32VDC, maximum current 1,050mA  
 Secondary voltage : automatic  
 Secondary power output : 90VA, total for all channels  
 Current output : adjustable from 200mA to 1,050mA in 50mA steps.  
 Temperature : -20°C to +50°C  
 Dimmable : yes, from 0.5% to 100%  
 Weight : 190 gram  
 Dimensions, LxWxH : 193x50x23mm

**860324 EL-POWER-180**

Primary voltage : 12-32VDC, maximum current 1.5A  
 Secondary voltage : automatic  
 Secondary power output : 180VA, total for all channels  
 Current output : adjustable from 200mA to 1,400mA in 50mA steps.  
 Temperature : -20°C to +50°C  
 Dimmable : yes, from 0.5% to 100%  
 Weight : 190 gram  
 Dimensions, LxWxH : 193x50x23mm



4 channel LED driver/controller for LED applications with a constant supply voltage. Dimmable via DMX and 0-10V.

**For constant voltage (LED strips).**

**860330 EL-LINEAR-180**

Supply voltage : 12-28V DC  
 Max. switching current : 1.5A per channel  
 Max. power : 180W total for all channels (at 28V)  
 Temperature : -20°C to +50°C  
 Dimmable : yes, from 0.5% to 100%  
 Weight : 145 gram  
 Dimensions, LxWxH : 153x50x23mm

**860332 EL-LINEAR-720**

Supply voltage : 12-28V DC  
 Max. switching current : 6A per channel  
 Max. power : 720W total for all channels (at 28V)  
 Temperature : -20°C to +50°C  
 Dimmable : yes, from 0.5% to 100%  
 Weight : 145 gram  
 Dimensions, LxWxH : 153x50x23mm

**Art. No. Klemko number**



**860346 EL-DIMWHEEL-C3**

The DimWheel is a powerful DMX controller for LED drivers and LED lamps that is operated with 1 button. The 15 bit resolution of the DimWheel Colour guarantees smooth dimming and an extremely precise colour setting. The DimWheel can be used for dimming from 100% to 0.5%.

Operating the DimWheel is as intuitive as operating a standard dimmer:

- \* On/off and dimming: Press the rotary encoder to switch the light on or off, and turn the rotary encoder while the light is on to adjust the brightness.
- \* Activation of colour selection mode: Press and the rotary encoder and keep it pressed in briefly. Turn the rotary encoder to select the colour. Briefly press the rotary encoder again and turn the rotary encoder to adjust the saturation. Press the rotary encoder again to save the colour setting.

### Art. No. Klemko



**860265 LB-KC-12V-10A3K**

Colour controller, 12VDC, for flexible LED strips. Maximum of 15A per channel, controls 3 channels with a sequence programme and fixed colour settings



**860260 LB-KC-12V-AMP**

**Amplifier**

12V amplifier, pre-synchronised, supplies extra power to longer LED strips. Nominal current 10A.



**860266 LB-KC-12V-IC**

Colour controller, 12VDC, for IC controlled LED strips. Article no. 861123 has an output U of 5V.



**860270 LB-KC-12V-FMLS**

Colour controller, 12VDC, for mini LED rope.



**860275 LB-KC-230V-A3K**

Colour controller for 230V mini LED rope.



**860282 LB-KC-24V-10A3K**

Colour controller, 24VDC, for flexible LED strips. Maximum of 15A per channel, controls 3 channels with a sequence programme and fixed colour settings (including remote control)



**860280 LB-KC-24V-AMP**

**Amplifier**

24V amplifier, pre-synchronised, supplies extra power to longer LED strips. Nominal current 10A.



**860230 LB-KC-RGBA-MC1**

Colour controller, 24VDC, for 3 or 4 colours/channels (max 33W/channel), with 8 configurable colour channels (times and colour changes).



**860235 LB-KC-RGB-PWM**

Colour controller, 12-24VDC, for 3 colours/channels (max 1.4A/channel), each canal configurable via pm (0.1-10V) or via colour controller



**860240 LB-KC-350-3CH**

PWM colour controller, 12-24VDC, for 3 colours/channels, 350mA constant current (max. LED/channel), Uout = 3-20VDC per channel, each channel configurable via pm (0.1-10V) or via colour controller max. 1x3W.

### Art. No. Klemko



#### Rectifier

##### 860865 GLR-FMLS-230V

Rectifier with junction box for LED rope, 230VAC.

##### 860864 GLR-FMLS-230VRGB

Rectifier with junction box for RGB LED rope, 230VAC.



#### Installation accessories

##### 860855 FLS-TAPE

Double-sided tape for flexible LED strips (10mm wide).

##### 860860 MC-FMLS

Installation clip for mini LED rope.



#### Connection cables

##### 860870 ASK-FMLS-12-24V

860871 ASK-FMLS12-24VRGB for RGB LED rope

Connection cable for LED rope, 12 / 24 / 230V secondary side, including cover caps and connector.



##### 860875 ASK-FLS68-10MM

easy connector, 10mm wide

##### 860876 ASK-FLS68-12MM

easy connector, 12mm wide

##### 860877 ASK-FLS68-14MM

easy connector, 14mm wide

Connection cable for flexible LED strips, IP 68, monochromatic, with cover caps.



##### 860880 ASK-FLS68RGB12

connection cable, 12mm

##### 860881 ASK-FLS68RGB14

connection cable, 14mm

Connection cable for flexible RGB LED strips, IP 68, including cover caps.



##### 860885 ASK-FLS68-SE

Connection cable for flexible LED strips, IP 68 side emitters, including cover caps.



##### 860887 ASK-ALS-68

Connection cable for aluminium LED strips with IP 68 connector.



##### 860890 ASK-SMD-FLS-8

connection cable, 8mm

##### 860891 ASK-SMD-FLS-10

connection cable, 10mm

##### 860892 ASK-SMD-FLS-12

connection cable, 12mm

Connection cable for SMD LED strips.



##### 860895 CON-SMD-FLS-8

easy connector, 8mm wide

##### 860896 CON-SMD-FLS-10

easy connector, 10mm wide

##### 860897 CON-SMD-FLS-12

easy connector, 12mm wide

Connector cable for series connection of SMD LED strips.



##### 860899 ASK-LS44

Connection cable for LS 44 LED strips



#### Tools

##### 860900 KED-IP68FLEX

Elastic, transparent adhesive and sealant for flexible LED strips and LED ropes, for waterproof seals.

##### 860905 FLS-STRIPPER

Stripper and cutter for flexible LED strips.

##### 860907 GSB-COMPRO

Gas soldering set, complete, for the simple soldering of connection cables to LED strips (excluding gas).

##### 860910 VWS-FLS-CPL

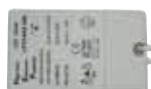
Tools for stripping, connecting and/or gluing LED strips and LED ropes. Contents: LED strip stripper (860905), gas soldering set (860907), tube of adhesive/sealant (860900).

Art. No.	Klemko number
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**860010 LB-LD-350M3**

LED driver, constant current, 350mA, for a maximum of 3x1W LEDs. Dimensions L49 x W39 x H20



**860018 LB-LD-350M8**

LED driver, constant current, 350mA, for a maximum of 8x1W LEDs. Dimensions L86 x W42 x H20



**860022 LB-LD-350M12**

LED driver, constant current, 350mA, for a maximum of 12x1W LEDs. Dimensions L166 x W40 x H30



**860024 LB-LD-350M18**

LED driver, constant current, 350mA, for a maximum of 18x1W LEDs. Max. Uout = 54V. Dimensions L104 x W68 x H30



**860026 LB-LD-350M18T**

LED driver, constant current, 350mA, with strain relief, for a maximum of 18x1W LEDs. Max. Uout = 54V. Dimensions L152 x W67 x H32



**860013 LB-LD-700M3**

LED driver, constant current, 700mA, for a maximum of 1x3W LEDs. Dimensions L48 x W38 x H20



**860050 LB-LD-700M4**

LED driver, constant current, 700mA, for a maximum of 1x3W LEDs. Dimensions L65 x W40 x H20



**860054 LB-LD-700M6**

LED driver, constant current, 700mA, for a maximum of 2x3W LEDs. Dimensions L85 x W40 x H22



**860056 LB-LD-700M12**

LED driver, constant current, 700mA, for a maximum of 4x3W LEDs. Dimensions L167 x W38 x H30



**860058 LB-LD-700M18**

LED driver, constant current, 700mA, for a maximum of 6x3W LEDs. Dimensions L173 x W78 x H31

### Art. No. Klemko number



#### 860095 LB-LD-12V-3

LED driver, constant voltage, 12V, for a maximum of 3W. Dimensions L49 x W39 x H20



#### 860100 LB-LD-12V-12

LED driver, constant voltage, 12V, maximum output 12W Dimensions L85 x W40 x H22



#### 860110 LB-LD-12V-60

LED driver, constant voltage, 12V, maximum output 60W Dimensions L173 x W76 x H31



#### 860145 LB-LD-24V-3

LED driver, constant voltage, 24V, maximum output 3W Dimensions L49 x W39 x H20



#### 860150 LB-LD-24V-12

LED driver, constant voltage, 24V, maximum output 12W Dimensions L85 x W40 x H22



#### 860160 LB-LD-24V-60

Mini LED driver, constant voltage, 24V, maximum output 60W Dimensions L173 x W76 x H31



#### 860162 LB-LD-24V-100

LED driver, constant voltage, 24V, maximum output 100W Dimensions L192 x W88 x H36



#### 860164 LB-LD-24V-3C

LED driver, constant voltage, 24V, max.100W, for control of three channels, max. 1x3W. Dimensions L190 x W130 x H36

Art. No. Klemko number



**860170 LB-DM-12-24V110**

1 channel controller, 12V 50W / 24V max.100W, dimmable with 1-10V pot meter. Dimensions L168 x W38 x H32

### General:



Klemko LED drivers are manufactured from the highest-quality components to achieve a very long service life equal to the service life of the LEDs. The standard drivers have 4 different types of protection:

### Thermal protection / Short-circuit protection / Overvoltage protection / No-load protection





The unique, patented primary dimmable LED drivers can be controlled with Klemko Electronic phase-chopping dimmers or dimmed with a 100 kOhm logarithmic potentiometer. The LED drivers are suitable for all brands of high-power LEDs. The driver supplies, depending on the version, a constant current of 350mA, 700mA or 1,050mA. The LED drivers, which have a compact housing, are available in a series of various secondary voltages and power outputs. All LED drivers have been awarded the KEMA and CE seals of approval pursuant to EN61047/EN62384 (performance), EN61347 (safety), EN55015, 61000-3-2, 61547(EMC) and SELV equivalent. All LED drivers are connected with 0.75-1.5mm<sup>2</sup> diameter cable on the primary side and with 0.25-1.0mm<sup>2</sup> diameter cable on the secondary side. The LED drivers are equipped with screw terminals on the primary side (with the exception of art.no. 876808, which has plug-in terminals). Most universal LED drivers automatically adjust the secondary voltage depending on the number of LEDs connected to the driver. Make sure that the maximum power output is not exceeded. The TC temperature of the housing is <85°C. The LED drivers are for indoor use, classified as Class 2 electrical equipment, and can be installed without an earth.

### Connector system

The standard 876800, 876804 and 876808 LED drivers are equipped with the CLICK and GO connector system used to connect all Klemko LEDs. These LED drivers are equipped with a Europlug.

	Art. No. Klemko number	Specifications
	<p><b>876800 LED-DRV-12,5</b>                      Universal LED driver that can supply both 350 or 700 mA. The standard drivers are equipped with a Europlug and cable connector for the direct connection of LEDs.</p> <p>The driver is automatically reset after an overload.</p> <p><b>876820 LED-DRV-12,5ZS</b>                      Identical to 876800, but without Europlug and cable connector</p>	<p>Primary voltage : 110-240V / 50-60Hz                      Secondary voltage : automatic                      Secondary power output : 1-12VA                      Current output : 350mA 1-9 LEDs of 1.2W / max. Fv = 32V                      Fv= Forward voltage : 700mA 1-4 LEDs of 3W / 5 x 2.5W max. Fv = 15V                      Temperature : -20°C to 45°C                      Dimmable : no                      Weight : 70 gram                      Dimensions, LxWxH : 99x39x23.5mm</p>
	<p><b>876804 LED-DRV-12,5PD</b>                      Primary dimmable LED driver that can be controlled with a Klemko phase-chopping dimmer.</p> <p>Patented</p> <p>Universal LED driver that can supply both 350 or 700 mA. The standard drivers are equipped with a Europlug and cable connector for the direct connection of LEDs.</p> <p>The driver is automatically reset after an overload.</p> <p><b>876805 LED-DRV-12,5PD-ZS</b>                      Identical to 876804, but without Europlug and cable connector</p>	<p>Primary voltage : 230-240V / 50-60Hz                      Secondary voltage : automatic                      Secondary power output : 1-12VA                      Current output : Fv = 350mA 1-9 LEDs of 1.2W / max. Fv = 32V                      Forward voltage : 700mA 1-4 LEDs of 3W max. 5 x 2.5W Fv = 15V                      Temperature : -20°C to 45°C                      Dimmable : Primary dimmable with chopper dimmer 891040                      Weight : 70 gram                      Dimensions, LxWxH : 99x39x23.5mm</p>



## LED drivers

Art. No.	Klemko number	Specifications
	<b>876808 LED-DRV-20D2/MS</b> Universal LED driver that can supply 350 or 700 or 1,050mA. Can also be set to a fixed secondary voltage. The standard driver is equipped with a Europlug and cable connector for the direct connection of LEDs. Can also be controlled with a pulse switch. Can be dimmed using two methods. The driver has plug-in contacts.	Primary voltage : 110-240V 50/60HZ Secondary voltage / power : 10V-10W / 12V-12W 24V-20W Current output : 350mA 1-9 LEDs of 1.2W, 700mA 6 LEDs 2.5W, 1,050mA-20W Temperature : -20°C to +45°C Dimmable 10-100% : <b>1)</b> 0-10V art.no. 871740 <b>2)</b> via logarithmic potmeter 100Kw <b>3)</b> via pulse switch Weight : 105 gram Dimensions, LxWxH : 110x52x23mm
	<b>876809 LED-DRV-20D2</b> Identical to 876808, but without Europlug and cable connector	
	<b>876806 LED-DRV-20VA</b> Universal LED driver that can supply both 350 or 700mA as well as adjustable secondary voltages between 4 and 24V.	Primary voltage : 230-240V / 50-60Hz Secondary voltage / power : adjustable via DIP switch 4V-5W / 5V-6W / 6V-7W / 8V-10W / 10V-12W / 12V-14W / 24V-20W Current output : 350mA 1-8 LEDs of 1.2W, 700mA 1-16 LEDs of 1.2W, 700mA 1-6 LEDs of 3W Temperature : -20°C to 50°C Dimmable : no Weight : 150 gram Dimensions, LxWxH : 110x52x23mm
	<b>876810 LED-DRV-20D-2K</b> Double-channel dimmable LED driver that delivers a constant current between 250mA and 1,000mA per channel. Can also be controlled with a pulse switch.	Primary voltage : 110-240V 50/60Hz Secondary voltage: 32V maximum Channel 1 : 250-1,000mA Channel 2 : 250-500mA Temperature : +50°C Dimmable 10-100% : <b>1)</b> 0-10V art.no. 871740 <b>2)</b> via logarithmic potmeter 100Kw <b>3)</b> via pulse switch Weight : 105 gram Dimensions, LxWxH : 112x52x24mm
	<b>876814 LED-DRV-5VA</b> Universal LED driver that can supply 1x350mA.  Solely for current-controlled LEDs	Primary voltage : 110-240VAC 50/60Hz Secondary voltage : automatic Secondary power output : 5VA Current output : 1 x 350mA (max 5 x 1W) Temperature : -20°C to +45°C Dimmable : no Weight : 70 gram Dimensions, LxWxH : 99x39x23.5mm


## LED drivers

Art. No.	Klemko number	Specifications																											
	<p><b>876812 LED-DRV-2X350D</b>                      Universal LED driver that can supply 2x350mA.</p> <p>Can be dimmed in 2 manners in the 10-100% range.</p> <p>A number of drivers can be controlled using one potmeter (calculate the resistance).</p>	<p>Primary voltage : 230-240VAC 50/60Hz                      Secondary voltage : to max. 30V                      Secondary power output : 20VA (total for both channels)</p> <p>Current output : 350mA 1-8 LEDs of 1.2W, 350mA 1-8 LEDs of 1.2W 700mA by connecting the current source output +/+ and -/- max. power 20VA                      total is 1-6 LEDs of 3W</p> <p>Temperature : -20°C to +40°C                      Dimmable : <b>1)</b> 0-10V art.no. 871740  <b>2)</b> via logarithmic potmeter 100Kw</p> <p>Weight : 105 gram                      Dimensions, LxWxH : 110x52x24mm</p>																											
	<p><b>876813 LED-DRV-2X350</b>                      Universal LED driver that can supply 2x350mA.</p>	<p>Primary voltage : 230-240VAC 50/60Hz                      Secondary voltage : to max. 30V                      Secondary power output : 20VA (total for both channels)</p> <p>Current output : 350mA 1-8 LEDs of 1.2W, 350mA 1-8 LEDs of 1.2W 700mA by connecting the current source output +/+ and -/- max. power 20VA                      total is 1-6 LEDs of 3W</p> <p>Temperature : -20°C to +40°C                      Dimmable : no                      Weight : 105 gram                      Dimensions, LxWxH : 110x52x24mm</p>																											
	<p><b>876818 LED-DRV-12VD</b>                      Universal dimmable LED driver that can supply 2 x 350mA at a primary voltage of 12-32VDC.                      The secondary voltage depends on the primary voltage.</p> <p>A maximum of 6 3.4V 1Watt LEDs can be connected to each output.</p> <p>When the LED driver is not supplied the specified minimum the LEDs connected to the LED driver will be dimmed!                      A number of drivers can be controlled simultaneously by one potmeter (calculate the resistance).</p>	<p>Primary voltage : 12-32VDC max 0.65A                      Secondary voltage / LEDs per output:</p> <table border="1"> <thead> <tr> <th>Input voltage</th> <th>number LEDs</th> <th>Forward voltage</th> </tr> </thead> <tbody> <tr> <td>12V</td> <td>max. 2 LEDs</td> <td>Fv max. 10V</td> </tr> <tr> <td>14V</td> <td>max. 3 LEDs</td> <td>Fv max. 12V</td> </tr> <tr> <td>17V</td> <td>max. 4 LEDs</td> <td>Fv max. 15V</td> </tr> <tr> <td>20V</td> <td>max. 5 LEDs</td> <td>Fv max. 18V</td> </tr> <tr> <td>23V</td> <td>max. 6 LEDs</td> <td>Fv max. 22V</td> </tr> <tr> <td>26V</td> <td>max. 7 LEDs</td> <td>Fv max. 24V</td> </tr> <tr> <td>29V</td> <td>max. 8 LEDs</td> <td>Fv max. 27V</td> </tr> <tr> <td>32V</td> <td>max. 9 LEDs</td> <td>Fv max. 30V</td> </tr> </tbody> </table> <p>Current output : 2 x 350mA max. 20VA                      total power output</p> <p>Temperature : -20°C to +50°C                      Dimmable 10-100% : <b>1)</b> 0-10V art.no. 871740  <b>2)</b> via logarithmic potmeter 100Kw</p> <p>Weight : 105 gram                      Dimensions, LxWxH : 112x52x24mm</p>	Input voltage	number LEDs	Forward voltage	12V	max. 2 LEDs	Fv max. 10V	14V	max. 3 LEDs	Fv max. 12V	17V	max. 4 LEDs	Fv max. 15V	20V	max. 5 LEDs	Fv max. 18V	23V	max. 6 LEDs	Fv max. 22V	26V	max. 7 LEDs	Fv max. 24V	29V	max. 8 LEDs	Fv max. 27V	32V	max. 9 LEDs	Fv max. 30V
Input voltage	number LEDs	Forward voltage																											
12V	max. 2 LEDs	Fv max. 10V																											
14V	max. 3 LEDs	Fv max. 12V																											
17V	max. 4 LEDs	Fv max. 15V																											
20V	max. 5 LEDs	Fv max. 18V																											
23V	max. 6 LEDs	Fv max. 22V																											
26V	max. 7 LEDs	Fv max. 24V																											
29V	max. 8 LEDs	Fv max. 27V																											
32V	max. 9 LEDs	Fv max. 30V																											


## LED drivers

Art. No.	Klemko number	Specifications
	<b>876816 LED-DRV-24V</b> Universal LED driver that can be set to the required secondary voltage using a DIP switch. With its primary voltage of 24-32VDC this driver can receive its power from batteries.	Primary voltage : 24VDC-32VDC, max 1A Secondary voltage / power : adjustable via DIP switch 4V-5W / 5V-6W / 6V-7W / 8V-10W / 10V-12W / 12V-15W / 22-24V 20W Current output : 350mA 1-6 LEDs 1W Max 22V : 700mA 2-12 LEDs 1W + 2 x 2.7W 700mA 1-6 LEDs of 3W Temperature : -20°C to 50°C Dimmable : no Weight : 105 gram Dimensions, LxWxH : 112x52x24mm
	<b>876822 LED-DRV-40W</b> LED driver, 40W, for constant current, adjustable between 300mA/1400mA (via resistance) UF=32V max.	Primary voltage : 110-240V / 50-60Hz Secondary voltage : automatic, max. 32V Secondary power output : 40W Current output : adjustable 300mA / 1,400mA Number of 2.5W LEDs : 9 to 10 (depending on version) Temperature : -25°C to + 60°C Dimmable : no Weight : 160 gram Dimensions, LxWxH : 156x42x32mm

## LED FLUSH-MOUNTED DIMMER

	<b>891040 D-PAF-315</b> The PAF-315 is a push-button on/off dimmer with a switching capacity of 20 / 315W for the minidim LED driver (Art.No. 876804). Can dim a maximum of 220VA LED power in parallel. With 4mm metal rotary three-way switch.	<b>240VAC</b> Applicable load : Minidim LED driver high-voltage halogen lamps electronic transformers suitable for phase-chopping Supply voltage : 230VAC +6% - 10% 50/60Hz Power : 1 to 20 LED drivers, max. 220VA LED power On / off : pushbutton Output : 2 change-over terminals Maximum brightness : adjustable Terminals : plug-in, 2.5mm <sup>2</sup> Fuse : electronic, self-resetting Shaft : Ø 4mm, metal
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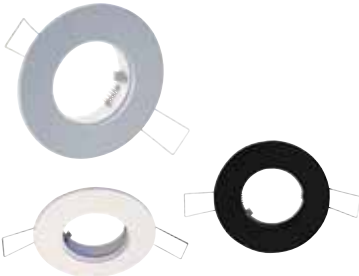




## LED LIGHT CONTROLLER 1-10V

	<b>871740 POT-MTR-INB/K</b> This electronic flush-mounted potentiometer is designed for dimming LED drivers with a 1-10VDC control input. The LED driver control currents may not exceed a total of 50mA.	(with retaining clamp) <b>Function 1</b> : push - switch "IN" or "OUT" via make contact <b>Function 2</b> : rotate = dimming via 1-10V control voltage Max. control current : 50mA, 50 LED drivers in parallel Fuse : T 4 H, 250V Frame : many known brands (not supplied with unit) Shaft : 4mm, metal Shaft adapter : from 4-6mm, supplied with unit
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## Luzern mounting plates

Art. No.	Colour	Dimensions	Recess dimensions
Single square Luzern flush-mounted fitting, brushed anodised aluminium, sprayed in RAL 9010 white or black anodised.			
<b>876500 LED-IA-1VRH</b>	aluminium	80x80mm	Ø55mm
<b>876544 LED-IA-1VRH-W</b>	RAL white	80x80mm	Ø55mm
<b>876554 LED-IA-1VRH-ZW</b>	black	80x80mm	Ø55mm
Twin rectangular Luzern flush-mounted fitting, brushed anodised aluminium, sprayed in RAL 9010 white or black anodised.			
<b>876502 LED-IA-2VRH</b>	aluminium	80x142mm	55x117mm
<b>876546 LED-IA-2VRH-W</b>	white	80x142mm	55x117mm
<b>876556 LED-IA-2VRH-ZW</b>	black	80x142mm	55x117mm
Triple rectangular Luzern flush-mounted fitting, brushed anodised aluminium, sprayed in RAL 9010 white or black anodised.			
<b>876504 LED-IA-3VRH</b>	aluminium	80x204mm	55x180mm
<b>876548 LED-IA-3VRH-W</b>	white	80x204mm	55x180mm
<b>876558 LED-IA-3VRH-ZW</b>	black	80x204mm	55x180mm
Quadruple rectangular Luzern built-in fitting, brushed anodised aluminium.			
<b>876506 LED-IA-4VRH</b>	aluminium	80x266mm	55x244mm
Quintuple rectangular Luzern built-in fitting, brushed anodised aluminium.			
<b>876508 LED-IA-5VRH</b>	aluminium	80x328mm	55x300mm
Quadruple square Luzern built-in fitting, brushed anodised aluminium.			
<b>876510 LED-IA-4VVK</b>	aluminium	142x142mm	117x117mm
Twin oval Luzern built-in fitting, brushed anodised aluminium or sprayed in RAL 9010 white.			
<b>876503 LED-IA-2VOV</b>	aluminium	80x142mm	55x117mm
<b>876545 LED-IA-2VOV-W</b>	white	80x142mm	55x117mm

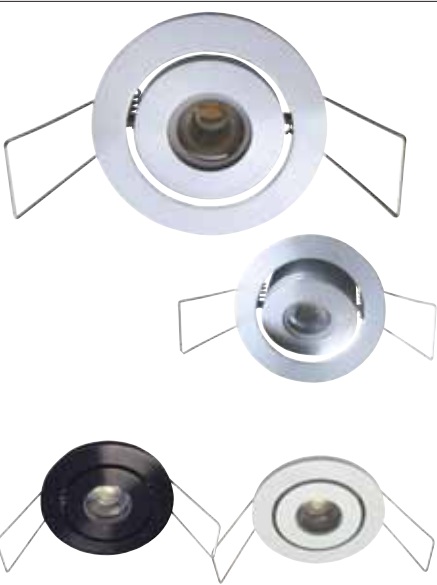
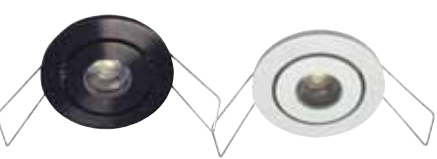
## Luzern mounting plates

Art. No.	Colour	Dimensions	Recess dimensions
 <p>Single round Luzern flush-mounted fitting, brushed anodised aluminium, sprayed in RAL 9010 white or black anodised.</p>			
<b>876520</b>	<b>LED-IA-1VRD</b>	aluminium	Ø80mm Ø55mm
<b>876540</b>	<b>LED-IA-1VRD-W</b>	white	Ø80mm Ø55mm
<b>876550</b>	<b>LED-IA-1VRD-80-ZW</b>	black	Ø80mm Ø55mm
<b>876519</b>	<b>LED-IA-1VRD-100</b>	aluminium	Ø100mm Ø55mm
<b>876539</b>	<b>LED-IA-1VRD-100W</b>	white	Ø100mm Ø55mm
<b>876549</b>	<b>LED-IA-1VRD-100ZW</b>	black	Ø100mm Ø55mm
<b>876518</b>	<b>LED-IA-1VRD-120</b>	aluminium	Ø120mm Ø55mm
<b>876536</b>	<b>LED-IA-1VRD-120W</b>	white	Ø120mm Ø55mm
<b>876551</b>	<b>LED-IA-1VRD-120ZW</b>	black	Ø120mm Ø55mm
 <p>Triple round Luzern flush-mounted fitting, brushed anodised aluminium, sprayed in RAL 9010 white or black anodised.</p>			
<b>876522</b>	<b>LED-IA-3VRD</b>	aluminium	Ø120mm Ø110mm
<b>876542</b>	<b>LED-IA-3VRD-W</b>	white	Ø120mm Ø110mm
<b>876552</b>	<b>LED-IA-3VRD-ZW</b>	black	Ø120mm Ø110mm
<b>876523</b>	<b>LED-IA-3VRD-200</b>	aluminium	Ø200mm Ø170mm
<b>876543</b>	<b>LED-IA-3VRD-200-W</b>	white	Ø200mm Ø170mm
<b>876553</b>	<b>LED-IA-3VRD-200-ZW</b>	black	Ø200mm Ø170mm
 <p>Quadruple round Luzern built-in fitting, brushed anodised aluminium.</p>			
<b>876524</b>	<b>LED-IA-4VRD</b>	aluminium	Ø140 Ø125
 <p>Quintuple round Luzern flush-mounted fitting, brushed anodised aluminium, sprayed in RAL 9010 white or black anodised.</p>			
<b>876526</b>	<b>LED-IA-5VRD</b>	aluminium	Ø150mm Ø135mm
<b>876560</b>	<b>LED-IA-5VRD-150-W</b>	white	Ø150mm Ø135mm
<b>876567</b>	<b>LED-IA-5VRD-150-ZW</b>	black	Ø150mm Ø135mm
<b>876527</b>	<b>LED-IA-5VRD-200</b>	aluminium	Ø200mm Ø170mm
<b>876561</b>	<b>LED-IA-5VRD-200-W</b>	white	Ø200mm Ø170mm
<b>876568</b>	<b>LED-IA-5VRD-200-ZW</b>	black	Ø200mm Ø170mm
<b>876528</b>	<b>LED-IA-5VRD-260</b>	aluminium	Ø260mm Ø220mm
<b>876562</b>	<b>LED-IA-5VRD-260-W</b>	white	Ø260mm Ø220mm
<b>876569</b>	<b>LED-IA-5VRD-260-ZW</b>	black	Ø260mm Ø220mm
 <p>Septuple round Luzern flush-mounted fitting, brushed anodised aluminium, sprayed in RAL 9010 white or black anodised.</p>			
<b>876529</b>	<b>LED-IA-7VRD-260</b>	aluminium	Ø260mm Ø220mm
<b>876563</b>	<b>LED-IA-7VRD-260-W</b>	white	Ø260mm Ø220mm
<b>876570</b>	<b>LED-IA-7VRD-260-ZW</b>	black	Ø260mm Ø220mm


## Luzern LED flush-mounted modules

Art. No.	Klemko number	Specifications
	<b>876600</b> LED-IBM-2,5NW	natural white
	<b>876602</b> LED-IBM-2,5WW	warm white
	<b>876604</b> LED-IBM-2,5CW	cool white
	<b>876606</b> LED-IBM-2,5BL	blue
	<b>876608</b> LED-IBM-2,5RD	red
	<b>876610</b> LED-IBM-2,5GR	green
	<b>876612</b> LED-IBM-2,5AM	amber
	Luzern LED modules for click & go installation in Luzern built-in fittings. Can be directed throughout 360°.	
	Lamp <b>876600</b>	: 3,600K 150LM 2.5W
	<b>876602</b>	: 2,900K 125LM 2.5W
	<b>876604</b>	: 6,000K 190LM 2.5W
	<b>876606</b>	: 60LM 2.5W
<b>876608</b>	: 60LM 2.5W	
<b>876610</b>	: 90LM 2.5W	
<b>876612</b>	: 70LM 2.5W	
Angle	: 40°	
External dimensions	: Ø 44mm	
Recess dimensions	: Ø 40mm x D 25mm	
	<b>876572</b> LED-IBM-W-2,5NW	natural white
	<b>876573</b> LED-IBM-W-2,5WW	warm white
	<b>876574</b> LED-IBM-W-2,5CW	cool white
	<b>876575</b> LED-IBM-W-2,5BL	blue
	<b>876576</b> LED-IBM-W-2,5RD	red
	<b>876577</b> LED-IBM-W-2,5GR	green
	<b>876578</b> LED-IBM-W-2,5AM	amber
	Luzern LED modules, spayed RAL 9010 white for click & go installation in Luzern flush-mounted fittings. Can be directed throughout 360°.	
	Lamp <b>876572</b>	: 3,600K 150LM 2.5W
	<b>876573</b>	: 2,900K 125LM 2.5W
	<b>876574</b>	: 6,000K 190LM 2.5W
	<b>876575</b>	: 60LM 2.5W
<b>876576</b>	: 60LM 2.5W	
<b>876577</b>	: 90LM 2.5W	
<b>876578</b>	: 70LM 2.5W	
Angle	: 40°	
External dimensions	: Ø 44mm	
Recess dimensions	: Ø 40mm x D 25mm	
	<b>876592</b> LED-IBM-Z-2,5WW	warm white
	<b>876593</b> LED-IBM-Z-2,5NW	natural white
	<b>876594</b> LED-IBM-Z-2,5CW	cool white
	<b>876595</b> LED-IBM-Z-2,5BL	blue
	<b>876596</b> LED-IBM-Z-2,5RD	red
	<b>876597</b> LED-IBM-Z-2,5GR	green
	<b>876598</b> LED-IBM-Z-2,5AM	amber
	Luzern LED modules, black anodised for click & go installation in Luzern flush-mounted fittings. Can be directed throughout 360°.	
	Lamp <b>876592</b>	: 2,900K 150LM 2.5W
	<b>876593</b>	: 3,600K 125LM 2.5W
	<b>876594</b>	: 6,000K 190LM 2.5W
	<b>876595</b>	: 60LM 2.5W
<b>876596</b>	: 60LM 2.5W	
<b>876597</b>	: 90LM 2.5W	
<b>876598</b>	: 70LM 2.5W	
Angle	: 40°	
External dimensions	: Ø 44mm	
Recess dimensions	: Ø 40mm x D 25mm	


## Luxor LED flush-mounted spots


	<b>876640</b> LED-SPOT-NW	natural white
	<b>876642</b> LED-SPOT-WW	warm white
	<b>876644</b> LED-SPOT-CW	cool white
	<b>876646</b> LED-SPOT-BL	blue
	<b>876648</b> LED-SPOT-RD	red
	<b>876650</b> LED-SPOT-GR	green
	<b>876652</b> LED-SPOT-AM	amber
	Luxor LED flush-mounted spots for installation in ceilings, adjustable through 360°, with springs. Can also be fitted to existing 50mm halogen light fittings.	
	Lamp <b>876640</b>	: 3,600K 150LM 2.5W
	<b>876642</b>	: 2,900K 125LM 2.5W
	<b>876644</b>	: 6,000K 190LM 2.5W
	<b>876646</b>	: 60LM 2.5W
<b>876648</b>	: 60LM 2.5W	
<b>876650</b>	: 90LM 2.5W	
<b>876652</b>	: 70LM 2.5W	
Angle	: 40°	
External dimensions	: Ø 50mm	
Recess dimensions	: Ø 45mm x D 25mm	
	<b>876741</b> LED-SPOT-Z-NW	natural white
	<b>876742</b> LED-SPOT-Z-WW	warm white
	<b>876740</b> LED-SPOT-Z-CW	cool white
	<b>876737</b> LED-SPOT-W-NW	natural white
	<b>876738</b> LED-SPOT-W-WW	warm white
	<b>876736</b> LED-SPOT-W-CW	cool white
Specifications as 876640, but black		
Specifications as 876642, but black		
Specifications as 876644, but black		
Specifications as 876640, but white		
Specifications as 876642, but white		
Specifications as 876644, but white		

## Lugano LED flush-mounted spots


Art. No.	Klemko number	Specifications
	<b>876620</b> LED-IB-SM-NW	natural white
	<b>876622</b> LED-IB-SM-WW	warm white
	<b>876624</b> LED-IB-SM-CW	cool white
	<b>876626</b> LED-IB-SM-BL	blue
	<b>876628</b> LED-IB-SM-RD	red
	<b>876630</b> LED-IB-SM-GR	green
	<b>876632</b> LED-IB-SM-AM	amber
Lugano LED flush-mounted spots for installation in panels such as kitchen cabinets or as an inset module in Luzern light fittings.		Lamp <b>876620</b> : 3,600K 150LM 2.5W <b>876622</b> : 2,900K 125LM 2.5W <b>876624</b> : 6,000K 190LM 2.5W <b>876626</b> : 60LM 2.5W <b>876628</b> : 60LM 2.5W <b>876630</b> : 90LM 2.5W <b>876632</b> : 70LM 2.5W Angle : 90° (white LEDs) Angle : 120° (colour LEDs) External dimensions : Ø 48mm Recess dimensions : Ø 32mm x D 14mm

## Luxi LED surface-mounted fittings

	<b>876680</b> LED-OPB-NW	natural white	Lamp <b>876680</b> : 3,600K 150LM 2.5W <b>876682</b> : 2,900K 125LM 2.5W <b>876684</b> : 6,000K 190LM 2.5W Angle : 40° Spot size : Ø 35mm Including bracket : L37 x W16 x H70mm
	<b>876682</b> LED-OPB-WW	warm white	
	<b>876684</b> LED-OPB-CW	cool white	
Luxi LED surface-mounted fittings for mounting on walls or ceilings.			



	<b>876686</b> LED-OPB-ZW-WW	warm white	Lamp <b>876686</b> : 2,900K 150LM 2.5W <b>876687</b> : 3,600K 125LM 2.5W <b>876688</b> : 6,000K 190LM 2.5W Angle : 40° Spot size : Ø 35mm Including bracket : L37 x W16 x H70mm
	<b>876687</b> LED-OPB-ZW-NW	natural white	
	<b>876688</b> LED-OPB-ZW-CW	cool white	
Luxi LED surface-mounted fittings black anodised for mounting on walls or ceilings.			

## Luxi LED surface-mounted fittings with 12V - 24VDC LED driver


	<b>876100</b> LED-OPB-12V-WW	warm white	<b>876100</b> : anodised aluminium
	<b>876102</b> LED-OPB-12V-NW	natural white	<b>876102</b> : anodised aluminium
	<b>876104</b> LED-OPB-12V-CW	cool white	<b>876104</b> : anodised aluminium
	<b>876106</b> LED-OPB-Z12V-WW	warm white	<b>876106</b> : black anodised
	<b>876108</b> LED-OPB-Z12V-NW	natural white	<b>876108</b> : black anodised
	<b>876110</b> LED-OPB-Z12V-CW	cool white	<b>876110</b> : black anodised
Fitted with integral LED driver, 12V - 24VDC/200mA - 100mA respectively.			Angle : 40° Spot size : Ø 35mm Including bracket : L37 x W16 x H70mm

Since the LED programme is developing rapidly the above specifications may have changed. Surf to [www.klemko.nl](http://www.klemko.nl) for the current specifications


## Moka LED universal

Art. No.	Klemko number	Specifications
	<b>876700</b> LED-MOKA-NW	natural white
	<b>876702</b> LED-MOKA-WW	warm white
	<b>876704</b> LED-MOKA-CW	cool white
	<b>876708</b> LED-MOKA-BL	blue
	<b>876706</b> LED-MOKA-RD	red
	<b>876710</b> LED-MOKA-GR	green
	<b>876712</b> LED-MOKA-AM	amber
	Moka LED module for universal applications. Also fits in existing 35mm halogen fittings.	Lamp <b>876700</b> : 3,600K 150LM 2.5W <b>876702</b> : 2,900K 125LM 2.5W <b>876704</b> : 6,000K 190LM 2.5W <b>876706</b> : 60LM 2.5W <b>876708</b> : 60LM 2.5W <b>876710</b> : 90LM 2.5W <b>876712</b> : 70LM 2W Angle : 40° Spot size : Ø 35mm x D 21mm
	<b>876714</b> LED-MOKA-ZW-WW	warm white
	<b>876715</b> LED-MOKA-ZW-NW	natural white
	<b>876716</b> LED-MOKA-ZW-CW	cool white
	Moka LED module, black anodised for universal applications. Also fits in existing 35mm halogen fittings.	Lamp <b>876714</b> : 2,900K 150LM 2.5W <b>876715</b> : 3,600K 125LM 2.5W <b>876716</b> : 6,000K 190LM 2.5W Angle : 40° Spot size : Ø 35mm x D 21mm

## Moka light fittings, with 12V - 24VDC LED driver



	<b>876112</b> LD-MOKA-12V-WW	warm white	<b>876112</b> : anodised aluminium
	<b>876114</b> LD-MOKA-12V-NW	natural white	<b>876114</b> : anodised aluminium
	<b>876116</b> LD-MOKA-12V-CW	cool white	<b>876116</b> : anodised aluminium
	<b>876118</b> LD-MOKA-12VZ-WW	warm white	<b>876118</b> : black anodised
	<b>876120</b> LD-MOKA-12VZ-NW	natural white	<b>876120</b> : black anodised
	<b>876122</b> LD-MOKA-12VZ-CW	cool white	<b>876122</b> : black anodised
	LED module with integral LED driver 12V-24VDC 200mA-100mA respectively. Also fits in existing 35mm halogen fittings.	Angle : 40° Spot size : Ø 35mm x D 21mm	

## Lugo LED flush-mounted wall light fittings

	<b>876660</b> LED-IB-MR-NW	natural white	Lamp <b>876660</b> : 3,600K 150LM 2.5W
	<b>876662</b> LED-IB-MR-WW	warm white	<b>876662</b> : 2,900K 100LM 2.5W
	<b>876664</b> LED-IB-MR-CW	cool white	<b>876664</b> : 6,000K 190LM 2.5W
	<b>876666</b> LED-IB-MR-BL	blue	<b>876666</b> : 60LM 2.5W
	<b>876668</b> LED-IB-MR-RD	red	<b>876668</b> : 60LM 2W
	<b>876670</b> LED-IB-MR-GR	green	<b>876670</b> : 90LM 2.5W
	<b>876672</b> LED-IB-MR-AM	amber	<b>876672</b> : 70LM 2W
	Lugo LED flush-mounted wall fitting for mounting on walls or ceilings up-/downlight.	External dimensions : 90x90mm Recess dimensions : 70x70mm x D 40mm	

Since the LED programme is developing rapidly the above specifications may have changed. Surf to [www.klemko.nl](http://www.klemko.nl) for the current specifications

## LED housings



	Art. No. Klemko number	Specifications
	<b>876658 GRONDSP-IP67</b> Waterproof ground spot housing (IP67) for Luxor spots directed on objects lit from below. Equipped with 2 clamp glands and can be walked over. <u>The fitting is supplied without a LED module.</u>	Dimensions : Ø 106mm x D 136mm Recess dimensions : Ø 92mm x D 133mm Protection : IP67 Cable feed : two clamp glands Mechanical : can be walked over
	<b>876657 INBHUIS-IP55</b> Watertight housing (IP55) for Luxor spots, for flush mounting in ceilings of canopies, shower cabins, etc. <u>The fitting is supplied without a LED module.</u>	Dimensions : Ø 85mm x D 38mm Recess dimensions : Ø 55mm x D 30mm Protection : IP55
	<b>865010 LA-PO-4V-LUZ</b> <b>865020 LA-PO-9V-LUZ</b> surface-mounted luzern fitting, 4 or 9 spots <u>exclusive of LED modules and driver.</u>	<b>865010</b> : light fitting for 4 spots Dimensions : L120 x W120 x D75mm <b>865020</b> : light fitting for 9 spots Dimensions : L170 x B170 x D75mm

## Luzern LED surface-mounted light fittings, with LED driver

	<b>876480 LA-OPB-LZ3-WW</b> <b>876481 LA-OPB-LZ3-NW</b> <b>876482 LA-OPB-LZ3-CW</b> Luzern triangular surface-mounted model, 3 spots, in aluminium with LED and primary dimmable LED driver Dimmable via the flush-mounted LED dimmer, art. no. 891040	<b>876480</b> : warm white lamp <b>876481</b> : natural white lamp <b>876482</b> : cool white lamp Dimensions : L 220mm x H 45mm
	<b>876488 LA-OPB-LZ4-WW</b> <b>876489 LA-OPB-LZ4-NW</b> <b>876490 LA-OPB-LZ4-CW</b> Luzern rectangular surface-mounted model, 4 spots, in aluminium with LED and primary dimmable LED driver Dimmable via the flush-mounted LED dimmer, art. no. 891040	<b>876488</b> : warm white lamp <b>876489</b> : natural white lamp <b>876490</b> : cool white lamp Dimensions : L202 x W163 x H45mm

Since the LED programme is developing rapidly the above specifications may have changed. Surf to [www.klemko.nl](http://www.klemko.nl) for the current specifications

## LED flush-mounted spot fittings



	Art. No.	Klemko number
	<p> <b>876780</b> LD-BAN-SP-HS-ALU aluminium  <b>876782</b> LD-BAN-SP-HS-ZW black  <b>876784</b> LD-BAN-SP-HS-WI white                 </p> <p>LED flush-mounted spot fitting for banana LED spot, in aluminium, black or RAL 9010 white. <u>The spot fitting is supplied without the lublin banana LED spot.</u></p>	<p> <b>876780</b> : aluminium  <b>876782</b> : black  <b>876784</b> : white                 </p> <p>                     External dimensions : Ø 110mm x D 75mm                      Recess dimensions : Ø 98mm x D 110mm with lamp                 </p>
 <p>Can be mounted vertically by dismantling the 90° angle block.</p>	<p> <b>876770</b> LD-BAN-SPOT-WW warm white  <b>876771</b> LD-BAN-SPOT-NW natural white  <b>876772</b> LD-BAN-SPOT-CW cool white                 </p> <p>LED spot 3 x 2.5W, lublin banana, fits in existing 50mm fittings (MR16) or in banana fitting (876780, 876782, 876784). Articles 876771 and 876772 can be supplied on request</p>	<p> <b>876770</b> : warm white lamp  <b>876771</b> : natural white lamp  <b>876772</b> : cool white lamp                 </p> <p>                     Lamp WW : 2,900K 375LM                      NW lamp : 3,600K 450LM                      CW lamp : 6,000K 570LM                 </p> <p>                     Angle : 35°                      Spot : Ø 50mm                 </p>

Since the LED programme is developing rapidly the above specifications may have changed. Surf to [www.klemko.nl](http://www.klemko.nl) for the current specifications


## LED flush-mounted spot fittings

Art. No.	Klemko number	Specifications
	<b>876762 KARD111-4V-NW</b> <b>876764 KARD111-4V-WW</b> For the replacement of kardan halogen 111mm spots.	Lamp <b>876762</b> : 3,600K 600LM 2.5W <b>876764</b> : 2,900K 520LM 2.5W Angle : 35° Recess dimensions : Ø 111mm x D 64mm
	<b>861500 LA-WI-SIGN-BL</b> <b>865780 LA-WI-VK-WW</b> <b>865782 LA-WI-VK-W</b>  <b>861502 LA-WI-PICTOS</b> flush-mounted wall light fitting for pictogram signs. pictogram set for 861500, seven pictograms.	<b>Blue, frosted glass</b> : <b>Warm white, frosted glass</b> <b>White, frosted glass</b> Dimensions : H90 x W90 x D40mm Recess dimensions : H72 x W72 x D37mm  <b>861502</b> : pictograms Dimensions : H63 x B63mm
		

## LED promotional materials

	<b>876890 DISPLAY-LED</b> LED display for demonstration purposes.	Configuration 1x 876602 LED-IBM-2,5WW 1x 876520 LED-1A-1VRD 1x 876644 LED-SPOT-CW 1x 876500 LED-1A-VRH 1x 876640 LED-SPOT-NW 1x 891040 D-PAF-315 1x 876684 LED-OPB-CW 1x 876666 LED-IB-MR-BL
	<b>876850 LUXOR-PAKKET</b> 3x Luxor warm white spot, 1 LED driver LED-DRV-12,5 and 1 2 m connection cable.	Configuration 1x 876800 LED-DVR-12,5 3x 876642 LED-SPOT-WW 1x 876802 CONKAB-2P-2M

## Lenses and reflectors





	<b>876960 LA-AC-LS7°-T1</b> <b>876962 LA-AC-LS15°-T1</b> <b>876964 LA-AC-RF60°-T1</b> Lens, 7° or 15°, for Luzern, Luxi, Luxor, Moka, Luca to replace the 40° lens. The 60° reflector is suitable for Luzern, Luxi, Luxor, Moka, Luca to replace the 40° lens	<b>876960</b> : lens 7° <b>876962</b> : lens 15° <b>876964</b> : reflector 60°
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	Art. No.	Klemko number	Specifications
	<p>876616 876617 876618</p>	<p><b>LA-PIR-LZ-AL</b> aluminium <b>LA-PIR-LZ-WI</b> white <b>LA-PIR-LZ-ZW</b> black</p> <p>Luzern PIR module for use in Luzern light fittings, aluminium, black or white spray finish.</p>	<p><b>876616</b> : aluminium <b>876617</b> : white <b>876618</b> : black</p> <p>Lux adjustable : 50-1,000 lux Time adjustable : 10 sec - 30 min. Power supply : from LED driver</p>
	<p>860800 860810</p>	<p><b>CON-CAB-2V-2M</b> <b>CON-CAB-6V-2M</b></p> <p>connector cable, length 2 m in 2 (with 1 jumper) of 6 (with 3 jumpers) way versions.</p>	<p><b>860800</b> : 2 way, 2-metre cable <b>860810</b> : 6 way, 2-metre cable</p>
	<p>876802 876803 876842 876844 876846 876848  876801</p>	<p><b>CONKAB-2P-2M</b> Connector cable with two outputs, with one jumper. <b>CONKAB-4P-1M</b> Connector cable with four outputs, with three jumpers. <b>VLGKAB-3M</b> <b>VLGKAB-5M</b> <b>VLGKAB-7M</b> <b>VLGKAB-10M</b> Extensions cables for standard connector cable, 1x male/1x female <b>AFSL-PLUG</b> Separate jumper</p>	<p>Connector cable : two or four outputs Cable length 876802 : 2m Cable length 876803 : 1m  Cable length 876842 : 3m Cable length 876844 : 5m Cable length 876846 : 7m Cable length 876848 : 10m</p>
	<p>876679</p>	<p><b>IB-DOOS-LUGO</b> Flush-mounted box for the installation of Lugo fittings in the wall.</p>	<p>Recess dimensions : L124 x H84 x D67mm</p>
	<p>876678</p>	<p><b>STUCPL-LUGO</b> Stucco plate for Lugo up-/downlight flush-mounted fittings.</p>	<p>Recess dimensions : 135x135mm D 27mm</p>
	<p>860850</p>	<p><b>LB-AC-MI-DS</b> Flush-mounted box for installation of 70 x 70mm wall light fitting.</p>	<p>Dimensions: L126 x W70 x H70mm</p>





## LED flush-mounted spots

	Art. No.	Klemko number	Specifications
	866050	LA-PI-RD100WH aluminium	866050 : white lamp
	866055	LA-PI-RD100WW aluminium	866055 : warm white lamp
	aluminium flush-mounted ceiling light fitting, round, Ø 100mm, IP64. 1W - 350mA.		External dimensions : Ø 100mm Recess dimensions : Ø 75mm x D 68mm Protection : front IP64
	866060	LA-PI-RVS42WH	866060 : white lamp
	866065	LA-PI-RVS42BL	866065 : blue lamp
	866070	LA-PI-RVS42GN	866070 : green lamp
	866075	LA-PI-RVS42RD	866075 : red lamp
	866080	LA-PI-RVS42AM	866080 : amber lamp
	866085	LA-PI-RVS42WW	866085 : warm white lamp
	stainless steel flush-mounted ceiling light fitting round, Ø 42mm, IP65 clear flat glass. 1W - 350mA.		Shape of glass : flat External dimensions : Ø 42mm Recess dimensions : Ø 37mm x D 42mm Protection : front IP65
	866090	LA-PI-ALU42WH-B	866090 : white lamp
	866095	LA-PI-ALU42BL-B	866095 : blue lamp
	866100	LA-PI-ALU42GN-B	866100 : green lamp
	866105	LA-PI-ALU42RD-B	866105 : red lamp
	866110	LA-PI-ALU42AM-B	866110 : amber lamp
	866115	LA-PI-ALU42WW-B	866115 : warm white lamp
	aluminium flush-mounted ceiling light fitting round, Ø, 42mm, IP65 frosted convex glass. 1W - 350mA.		Shape of glass : convex External dimensions : Ø 42mm Recess dimensions : Ø 37mm x D 42mm Protection : front IP65
	866120	LA-PI-UNI-WH	866120 : white lamp
	866125	LA-PI-UNI-BL	866125 : blue lamp
	866130	LA-PI-UNI-GN	866130 : green lamp
	866135	LA-PI-UNI-RD	866135 : red lamp
	866140	LA-PI-UNI-AM	866140 : amber lamp
	866145	LA-PI-UNI-WW	866145 : warm white lamp
	universal aluminium flush-mounted ceiling light fitting, round, Ø 90mm, IP64. 1W - 350mA.		Shape of glass : flat External dimensions : Ø 90mm Recess dimensions : Ø 80mm x D 36mm Protection : front IP64

## LED light fittings

Art. No.	Klemko number	Specifications
	865800 LA-DP-BZ1V-WH	865800 : white lamp
	865802 LA-DP-BZ1V-BL	865802 : blue lamp
	865804 LA-DP-BZ1V-GN	865804 : green lamp
	865806 LA-DP-BZ1V-AM	865806 : amber lamp
	865808 LA-DP-BZ1V-RD	865808 : red lamp
	865810 LA-DP-BZ1V-WW	865810 : warm white lamp
	Single adjustable round floor lamp. The floor lamp is fixed with a stud under the base. 1W - 350mA.	
	865812 LA-DP-RB2V-WH	865812 : white lamp
	865814 LA-DP-RB2V-BL	865814 : blue lamp
	865816 LA-DP-RB2V-GN	865816 : green lamp
	865818 LA-DP-RB2V-AM	865818 : amber lamp
	865820 LA-DP-RB2V-RD	865820 : red lamp
	865822 LA-DP-RB2V-WW	865822 : warm white lamp
	Twin directable round floor lamp. The floor lamp is fixed with a stud under the base. 2 x 1W - 350mA.	
	865824 LA-DP-RB1VC-WH	865824 : white lamp
	865826 LA-DP-RB1VC-BL	865826 : blue lamp
	865828 LA-DP-RB1VC-GN	865828 : green lamp
	865830 LA-DP-RB1VC-AM	865830 : amber lamp
	865832 LA-DP-RB1VC-RD	865832 : red lamp
	865834 LA-DP-RB1VC-WW	865834 : warm white lamp
	Single directable cylindrical floor lamp. The floor lamp is fixed with a stud under the base. 1W - 350mA.	
	865880 LA-DP-RB1V3-WH	865880 : white lamp
	865882 LA-DP-RB1V3-BL	865882 : blue lamp
	865884 LA-DP-RB1V3-GN	865884 : green lamp
	865886 LA-DP-RB1V3-AM	865886 : amber lamp
	865888 LA-DP-RB1V3-RD	865888 : red lamp
	865890 LA-DP-RB1V3-WW	865890 : warm white lamp
	Triple directable display light fitting, high model. The light fitting is with a stud under the base. 3 x 1W - 350mA.	

## LED light fittings

Art. No.	Klemko number	Specifications
	<p> <b>865892</b> LA-DP-RB1V3L-WH  <b>865894</b> LA-DP-RB1V3L-BL  <b>865896</b> LA-DP-RB1V3L-GN  <b>865898</b> LA-DP-RB1V3L-AM  <b>865900</b> LA-DP-RB1V3L-RD  <b>865902</b> LA-DP-RB1V3L-WW                 </p> <p>Triple directable display light fitting, low model. The light fitting is with a stud under the base. 3 x 1W - 350mA.</p>	<p> <b>865892</b> : white lamp  <b>865894</b> : blue lamp  <b>865896</b> : green lamp  <b>865898</b> : amber lamp  <b>865900</b> : red lamp  <b>865902</b> : warm white lamp                 </p> <p>                     Height : 90mm                      Base : Ø 25mm                      Stud : mounting length 30mm                 </p>
	<p><b>865960</b> LA-DP-IB2V3-WH</p> <p>Double 3 lamp directable flush-mounted hanging lamp. The lamp is fixed by the springs under the mounting plate. 2 x 3 x 1W - 350mA.</p>	<p><b>865960</b> : white lamp</p> <p>                     Height : 135mm                      Width : 172mm                      Base : Ø 80mm x D 35mm                 </p>
	<p> <b>865400</b> LA-WO-1V-WH  <b>865405</b> LA-WO-1V-WW  <b>865420</b> LA-WO-2V-WH  <b>865425</b> LA-WO-2V-WW                 </p> <p>Single or double surface-mounted wall light fitting with LED driver.</p>	<p> <b>865400</b> : single white lamp  <b>865405</b> : single white lamp                      Dimensions : H63 x W46 x D75mm  <b>865420</b> : double white lamp  <b>865425</b> : double white lamp                      Dimensions : H91 x W46 x D75mm                 </p>
	<p> <b>865480</b> LA-WO-BZC-1V-WH  <b>865485</b> LA-WO-BZC-1V-WW                 </p> <p>Single surface-mounted flexible cylindrical wall lamp fitting with LED driver</p>	<p> <b>865480</b> : white lamp  <b>865485</b> : warm white lamp                      Dimensions : H85 x W60 x D29mm                      Recess dimensions : H76 x W54 x D28mm                 </p>

### Durable retrofit LED lighting with the ambience of traditional lamps.

Klemko is proud to introduce a complete series of durable LED lamps as replacements for traditional lighting such as halogen, incandescent, energy-saving and professional spot and downlight lamps (Par16 and the Nr63)

These lamps are extremely economical, use between 85 and 90% less energy than the lamps they replace and also have a service life of 35,000 hours, equivalent to 5-10 year's extremely intensive use.

Klemko retrofit lamps are, depending on the version, infinitely dimmable with every type of dimmer. They are unique in that, in analogy with traditional dimmable lamps, the light colour changes as they are dimmed. The **patented Colour Temperature Adjusted (CTA) dimming function** changes the colour from a clear softtone colour with a bright lamp to a warm flame colour when the lamp is fully dimmed - which is more suitable for soft background lighting. This new dimming feature can create every required ambience—which had previously been possible solely with traditional lamps.

As a result of the specific controls the lamps, depending on the model, have a power factor of between 0.85 and 0.93—higher than any other lamp on the market. Consequently, the lamps cause virtually no blind current, a common problem in many LED applications. In addition, they consume between 80 to 90% less energy than traditional lamps and even, on average, 50% less energy than energy-saving lamps. The advanced integral **temperature control system (TCS)** ensures that the electrical components of the lamp cannot become overheated - which results in a service life of at least 35,000 hours. This longer service life not only results in cost savings for the user, but also in a significant reduction of CO<sub>2</sub> emissions.

These lamps are ideal for use in locations where lighting is used extremely intensively, such as in stores, restaurants and hotels as well as locations in which the lamps are difficult to reach, for example lamps mounted in high ceilings and in stairways, etc.

The new generation LED lamps provide a maintenance-free, durable solution that not only offer the user substantial savings but also avoid a great deal of annoyance.

All Klemko LED lamps have received KEMA product-safety certification. Klemko grants a 3-year warranty on the LED lamps.



Lamp base **GU5,3** 12 volt



Lamp base **GU10** 110 - 240VAC 50/60Hz



Lamp base **E27** 110 - 240VAC 50/60Hz



**CTA** Dynamic control of colour from softtone to flame








**TCS** Temperature control system, the electronics are controlled depending on the temperature.



## Universal dimmable retrofit LED lamps

	Art. No. Klemko	Base	Lamp	Lumen
<b>LED spot</b> 	864010 LB-SPLC3WGU5,3	GU5,3	pro-mr16 spot, cree 3W 2,800K warm white 12VAC/VDC Angle 40° Dimensions 47mm x Ø 50mm	120LM
	864020 LB-SPLC4WGU5,3	GU5,3	pro-mr16 spot, cree 4W 2,800K warm white 12VAC/VDC Angle 40° Dimensions 47mm x Ø 50mm	200LM
	864030 LB-SPL-A4WGU10	GU10	pro-mr16 spot, arciche 4W 2,800K warm white 110-240VAC Angle 40° Dimmable with virtually every dimmer Power factor: 0.95 Dimensions 55mm x Ø 50mm	145LM
	864064 LB-SPL-C7GU10	GU10	pro-par16 spot, 7W cree dimmable 2,800K warm white 110-240VAC Angle 40° Dimmable: with virtually every dimmer Power factor: 0.92 Dimensions 81mm x Ø 50mm	330LM
<b>LED downlight</b> 	864152 LB-DL-C8WE27	E27	pro-nr63 downlighter, 8W cree dimmable 2,800K warm white 220-240VAC Angle 40° Dimmable with virtually every dimmer Power factor: 0.92 Dimensions 91mm x Ø 60mm	405LM
<b>LED bulbight</b> 	864202 LB-BLBC7WE27CT	E27	pro-bulb, 7W cree <a href="#">cta dimming</a> 2,300K to 2,700K by CTA dimming 110-240VAC Angle 220° Dimmable with virtually every dimmer Power factor: 0.89 Dimensions 115mm x Ø 55mm	280LM
	864222 LB-BLBC7WE27	E27	pro-bulb, 7W cree dimmable 2,850K warm white 110-240VAC Angle 220° Dimmable with virtually every dimmer Power factor: 0.89 Dimensions 115mm x Ø 55mm	330LM

## Flexible LED strips

	Art. No. Klemko	Colour	Power and lumen p. metre	WxLxHmm	
	24 Volt flexible LED strip, IP20, for indoor use, with 5 m double-sided tape. The beam angle is 120° and the strip has 60 LEDs per metre (RGB: 30 LEDs per metre). Every colour can be mixed with RGB				
	861110	FLS20-WH	white 7,000K	4.8W - 300LM/m	8 x 5,000 x 1
	861112	FLS20-WW	warm white 3,000K	4.8W - 270LM/m	8 x 5,000 x 1
	861114	FLS20-BL	blue	4.8W - 40LM/m	8 x 5,000 x 1
	861116	FLS20-GR	green	4.8W - 180LM/m	8 x 5,000 x 1
	861118	FLS20-RD	red	4.8W - 60LM/m	8 x 5,000 x 1
	861120	FLS20-GE	yellow/amber	4.8W - 55LM/m	8 x 5,000 x 1
	861122	FLS20-RGB	RGB colours	7.2W - 470LM/m	10 x 5,000 x 1
	24 Volt flexible LED strip, IP20, for indoor use, with 3M double-sided tape. The minimum radius is 4 cm. The beam angle is 120° and the strip has 36 LEDs per metre (RGB: 60 LEDs per metre). Every colour can be mixed with RGB				
	861125	FLS20-WH-363V	white 7,000K	8.64W - 396LM/m	10 x 5,000 x 1
	861126	FLS20-WW-363V	warm white 3,000K	8.64W - 342LM/m	10 x 5,000 x 1
	861127	FLS20-BL-363V	blue	8.64W - 54LM/m	10 x 5,000 x 1
	861128	FLS20-GR-363V	green	8.64W - 198LM/m	10 x 5,000 x 1
	861129	FLS20-RD-363V	red	8.64W - 54LM/m	10 x 5,000 x 1
	861130	FLS20-GE-363V	yellow	8.64W - 90LM/m	10 x 5,000 x 1
	861131	FLS20-RGB-60	RGB colours	14.4W - 940LM/m	12 x 5,000 x 1
	24 Volt flexible LED strip, IP68, for outdoor use. The minimum radius is 4 cm. The beam angle is 120° and the strip has 60 LEDs per metre (RGB: 30 LEDs per metre). Every colour can be mixed with RGB				
	861150	FLS68-WH	white 7,000K	4.8W - 300LM/m	10 x 5,000 x 4
	861152	FLS68-WW	warm white 3,000K	4.8W - 270LM/m	10 x 5,000 x 4
	861154	FLS68-BL	blue	4.8W - 40LM/m	10 x 5,000 x 4
	861156	FLS68-GR	green	4.8W - 180LM/m	10 x 5,000 x 4
	861158	FLS68-RD	red	4.8W - 60LM/m	10 x 5,000 x 4
	861160	FLS68-GE	yellow/amber	4.8W - 55LM/m	10 x 5,000 x 4
	861162	FLS68-RGB	RGB colours	7.2W - 470LM/m	12 x 5,000 x 4
	24 Volt flexible LED strip, IP68, for outdoor applications, with triple LEDs for a high light intensity, 36 LEDs per metre. The LED strip can be bent to a minimum radius of 4 cm				
	861165	FLS68-WH36-3V	white 7,000K	8.64W - 396LM	10 x 5,000 x 4
	861166	FLS68-WW36-3V	warm white 3,000K	8.64W - 392LM	10 x 5,000 x 4
	861167	FLS68-BL36-3V	blue	8.64W - 54LM	10 x 5,000 x 4
	861168	FLS68-GR36-3V	green	8.64W - 198LM	10 x 5,000 x 4
	861169	FLS68-RD36-3V	red	8.64W - 54LM	10 x 5,000 x 4
	861170	FLS68-GE36-3V	yellow/amber	8.64W - 90LM	10 x 5,000 x 4
	861171	FLS68-RGB-60	RGB	14.4W - 940LM	12 x 5,000 x 4
	24 Volt flexible LED strip, IP68, for outdoor applications, with triple LEDs for a high light intensity, 60 LEDs per metre. The LED strip can be bent to a minimum radius of 4 cm				
	861175	FLS68-WH60-3V	white 7,000K	14.4W - 660LM/m	5 x 5,000 x 4
	861176	FLS68-WW60-3V	warm white 3,000K	14.4W - 590LM/m	5 x 5,000 x 4
	861177	FLS68-BL60-3V	blue	14.4W - 90LM/m	5 x 5,000 x 4
	861178	FLS68-GR60-3V	green	14.4W - 330LM/m	5 x 5,000 x 4
	861179	FLS68-RD60-3V	red	14.4W - 90LM/m	5 x 5,000 x 4
	861180	FLS68-GE60-3V	yellow/amber	14.4W - 150LM/m	5 x 5,000 x 4

## Flexible LED strips




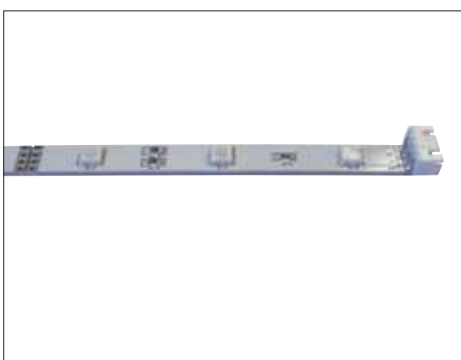
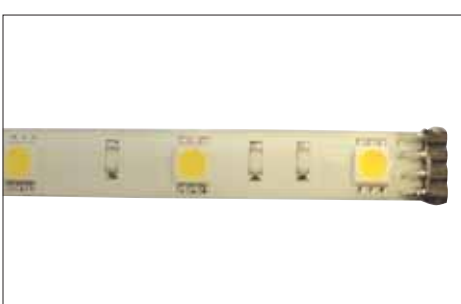
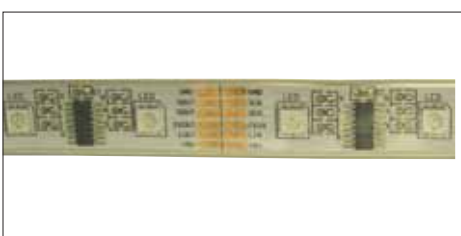
Art. No.	Klemko	Colour	Power and lumen p. metre	WxLxHmm	
<p>12 Volt flexible LED strip, IP20, for indoor use, side emitter LEDs that project a lateral beam with a beam angle of 120°. 60 LEDs per metre. The LED strip bent to a minimum radius of 4 cm. Supplied with double-sided tape.</p>					
	<b>861200</b>	<b>FLS20-SE-WH</b>	white 7,000K	4.8W - 110LM	4 x 5,000 x 1
	<b>861202</b>	<b>FLS20-SE-WW</b>	warm white 3,000K	4.8W - 110LM	4 x 5,000 x 1
	<b>861204</b>	<b>FLS20-SE-BL</b>	blue	4.8W - 38LM	4 x 5,000 x 1
	<b>861206</b>	<b>FLS20-SE-GR</b>	green	4.8W - 100LM	4 x 5,000 x 1
	<b>861208</b>	<b>FLS20-SE-RD</b>	red	4.8W - 50LM	4 x 5,000 x 1
	<b>861210</b>	<b>FLS20-SE-GE</b>	yellow/amber	4.8W - 80LM	4 x 5,000 x 1
<p>12 Volt flexible LED strip, IP68, for outdoor use, side emitter LEDs that project a lateral beam with a beam angle of 120°. 60 LEDs per metre. The LED strip can be bent to a minimum radius of 4 cm.</p>					
	<b>861230</b>	<b>FLS68-SE-WH</b>	white 7,000K	4.8W - 120LM	5 x 5,000 x 4
	<b>861232</b>	<b>FLS68-SE-WW</b>	warm white 3,000K	4.8W - 120LM	5 x 5,000 x 4
	<b>861234</b>	<b>FLS68-SE-BL</b>	blue	4.8W - 38LM	5 x 5,000 x 4
	<b>861236</b>	<b>FLS68-SE-GR</b>	green	4.8W - 100LM	5 x 5,000 x 4
	<b>861238</b>	<b>FLS68-SE-RD</b>	red	4.8W - 50LM	5 x 5,000 x 4
	<b>861240</b>	<b>FLS68-SE-GE</b>	yellow/amber	4.8W - 80LM	5 x 5,000 x 4







## Flexible mini LED ropes

	Art. No. Klemko	Colour	Power per metre	Length	
	24Volt flexible mini LED rope, IP68, for outdoor applications, can be bent through 180°. The beam angle is 120°. The LED ropes are 10mm wide, 6mm thick and 20m long (RGB 15mm wide and 8mm thick).				
	<b>861510</b>	<b>FMLS68-WH-20</b>	white	2.16W - 36 LEDs/m	20m
	<b>861520</b>	<b>FMLS68-WW-20</b>	warm white	2.16W - 36 LEDs/m	20m
	<b>861530</b>	<b>FMLS68-BL-20</b>	blue	2.16W - 36 LEDs/m	20m
	<b>861540</b>	<b>FMLS68-GR-20</b>	green	2.16W - 36 LEDs/m	20m
	<b>861550</b>	<b>FMLS68-RD-20</b>	red	2.16W - 36 LEDs/m	20m
	<b>861560</b>	<b>FMLS68-GE-20</b>	yellow/amber	2.16W - 36 LEDs/m	20m
	<b>861590</b>	<b>FMLS68-RGB-20</b>	RGB colours	6.48W - 36 LEDs/m	20m
	230 Volt flexible mini LED rope, IP68, for outdoor applications, can be bent through 180°. The beam angle is 120°. The LED ropes are 10mm wide and 6mm thick (RGB 15mm wide and 8mm thick).				
	<b>861600</b>	<b>FMLS68-230-WH-100</b>	white	1.65W - 36 LEDs/m	100m
	<b>861602</b>	<b>FMLS68-230-WH-50</b>	white	1.65W - 36 LEDs/m	50m
	<b>861604</b>	<b>FMLS68-230-WH-20</b>	white	1.65W - 36 LEDs/m	20m
	<b>861606</b>	<b>FMLS68-230-WH-6</b>	white	1.65W - 36 LEDs/m	6m
	<b>861608</b>	<b>FMLS68-230-WW-100</b>	warm white	1.65W - 36 LEDs/m	100m
	<b>861610</b>	<b>FMLS68-230-WW-50</b>	warm white	1.65W - 36 LEDs/m	50m
	<b>861612</b>	<b>FMLS68-230-WW-20</b>	warm white	1.65W - 36 LEDs/m	20m
	<b>861614</b>	<b>FMLS68-230-WW-6</b>	warm white	1.65W - 36 LEDs/m	6m
	<b>861616</b>	<b>FMLS68-230-BL-100</b>	blue	1.65W - 36 LEDs/m	100m
	<b>861618</b>	<b>FMLS68-230-BL-50</b>	blue	1.65W - 36 LEDs/m	50m
	<b>861620</b>	<b>FMLS68-230-BL-20</b>	blue	1.65W - 36 LEDs/m	20m
	<b>861622</b>	<b>FMLS68-230-BL-6</b>	blue	1.65W - 36 LEDs/m	6m
	<b>861624</b>	<b>FMLS68-230-GR-100</b>	green	1.65W - 36 LEDs/m	100m
	<b>861626</b>	<b>FMLS68-230-GR-50</b>	green	1.65W - 36 LEDs/m	50m
	<b>861628</b>	<b>FMLS68-230-GR-20</b>	green	1.65W - 36 LEDs/m	20m
	<b>861630</b>	<b>FMLS68-230-GR-6</b>	green	1.65W - 36 LEDs/m	6m
	<b>861632</b>	<b>FMLS68-230-RD-100</b>	red	1.65W - 36 LEDs/m	100m
	<b>861634</b>	<b>FMLS68-230-RD-50</b>	red	1.65W - 36 LEDs/m	50m
	<b>861636</b>	<b>FMLS68-230-RD-20</b>	red	1.65W - 36 LEDs/m	20m
	<b>861638</b>	<b>FMLS68-230-RD-6</b>	red	1.65W - 36 LEDs/m	6m
	<b>861640</b>	<b>FMLS68-230-GE-100</b>	yellow/amber	1.65W - 36 LEDs/m	100m
	<b>861642</b>	<b>FMLS68-230-GE-50</b>	yellow/amber	1.65W - 36 LEDs/m	50m
	<b>861644</b>	<b>FMLS68-230-GE-20</b>	yellow/amber	1.65W - 36 LEDs/m	20m
	<b>861646</b>	<b>FMLS68-230-GE-6</b>	yellow/amber	1.65W - 36 LEDs/m	6m
	<b>861648</b>	<b>FMLS68-230-RGB-100</b>	RGB colours	4.95W - 36 LEDs/m	100m
<b>861650</b>	<b>FMLS68-230-RGB-50</b>	RGB colours	4.95W - 36 LEDs/m	50m	
<b>861652</b>	<b>FMLS68-230-RGB-20</b>	RGB colours	4.95W - 36 LEDs/m	20m	
<b>861654</b>	<b>FMLS68-230-RGB-6</b>	RGB colours	4.95W - 36 LEDs/m	6m	

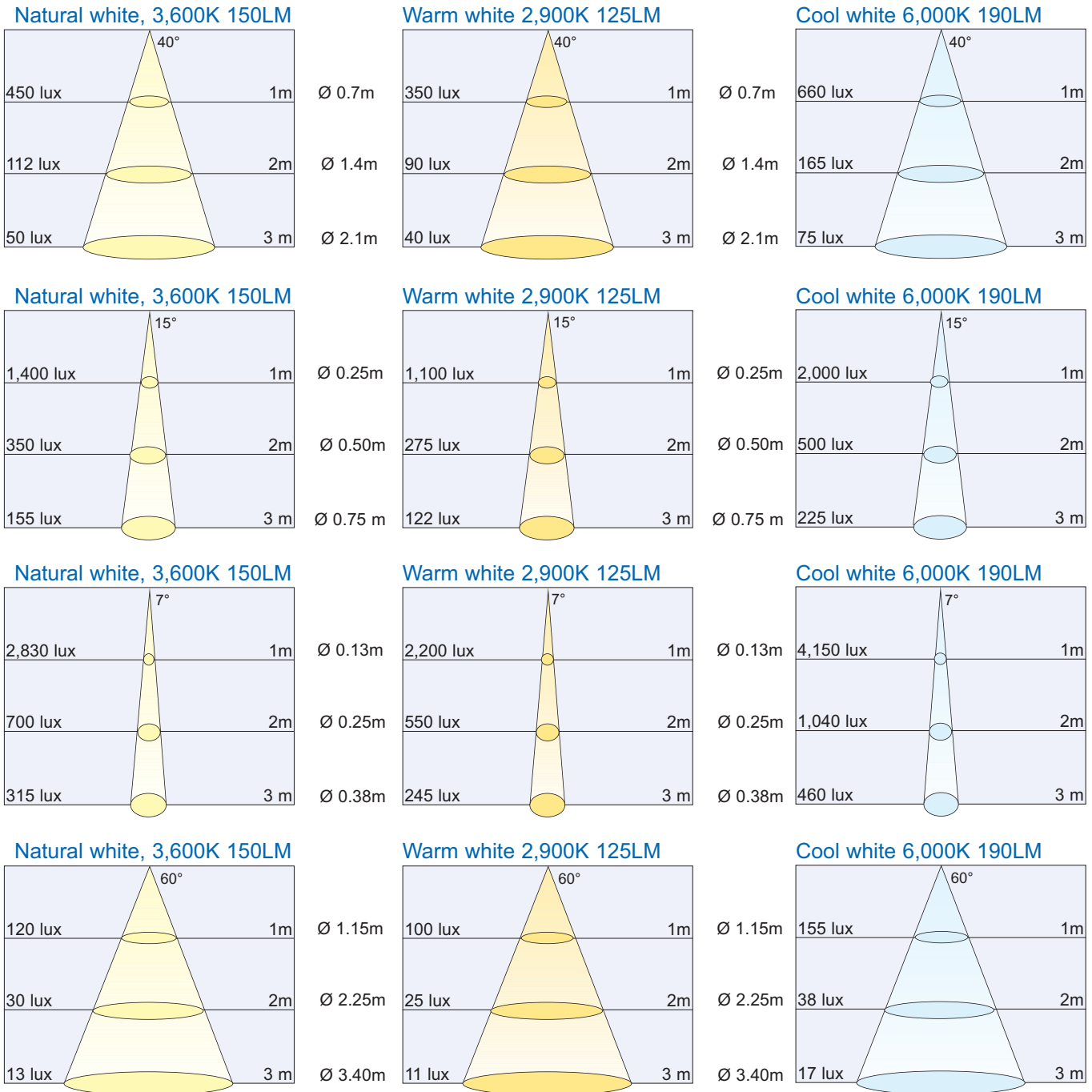
## Rigid LED strips

	Art. No. Klemko number	Specifications
	<p>Flush-mounting aluminium LED strip, length 330mm, with 24 0.06W white LEDs.</p> <p><b>861010 LS-1A-24V0,06WH</b> white lamps</p>	<p>Dimensions : L330xW58xD68mm Recess dimensions : L314xW46xD66mm</p>
	<p>Aluminium LED strip, length 306mm, with 3V LEDs, with plastic window. Power consumption of 4.8W per 30cm.</p> <p><b>861015 LS-ALU-30CW-12</b> white lamps <b>861016 LS-ALU-30WW-12</b> warm white lamps <b>861017 LS-ALU-30BL-12</b> blue lamps <b>861018 LS-ALU-30GR-12</b> green lamps <b>861019 LS-ALU-30RD-12</b> red lamps <b>861020 LS-ALU-30GE-12</b> yellow lamps</p>	<p>L306mm L306mm L306mm L306mm L306mm L306mm</p>
	<p>Aluminium LED strip, length 505mm, with 3V LEDs, with plastic window. Power consumption of 7,2W per 50cm.</p> <p><b>861029 LS-ALU-50CW-12</b> white lamps <b>861030 LS-ALU-50WW-12</b> warm white lamps <b>861031 LS-ALU-50BL-12</b> blue lamps <b>861032 LS-ALU-50GR-12</b> green lamps <b>861033 LS-ALU-50RD-12</b> red lamps <b>861034 LS-ALU-50GE-12</b> yellow lamps</p>	<p>L505mm L505mm L505mm L505mm L505mm L505mm</p>
	<p>LED strip, IP20, for indoor applications, simple to connect together, equipped with double-sided tape. The beam angle is 120°. The strip has 30 LEDs per 50cm (RGB: 15 LEDs). Power consumption of 2.4W (RGB: 3.6W).</p> <p><b>861035 LS20-24V-WH</b> white lamps <b>861037 LS20-24V-WW</b> warm white lamps <b>861039 LS20-24V-BL</b> blue lamps <b>861041 LS20-24V-GR</b> green lamps <b>861043 LS20-24V-RD</b> red lamps <b>861045 LS20-24V-GE</b> yellow lamps <b>861047 LS20-24V-RGB</b> RGB colours, colours can be mixed</p>	<p>L500 x W8 x H2mm L500 x W8 x H2mm L500 x W8 x H2mm L500 x W8 x H2mm L500 x W8 x H2mm L500 x W8 x H2mm L500 x W8 x H2mm</p>
	<p>Flexible LED strip, IP44, length 300mm, simple to connect to each other. With 3V LEDs in various colours. The power consumption is 2.88W per strip. Equipped with double-sided 3M tape.</p> <p><b>861060 FLS44-12V-WH</b> cool white lamps <b>861061 FLS44-12V-WW</b> warm white lamps <b>861062 FLS44-12V-BL</b> blue lamps <b>861063 FLS44-12V-GR</b> green lamps <b>861064 FLS44-12V-RD</b> red lamps <b>861065 FLS44-12V-GE</b> yellow lamps</p>	<p>130LM/strip L300mm 130LM/strip L300mm 18LM/strip L300mm 90LM/strip L300mm 18LM/strip L300mm 18LM/strip L300mm</p>
	<p>24VDC flexible LED strip for indoor use, with IC sections so that each section can be controlled separately. The LED strip is configured with its own protocol and can be controlled solely with the colour controller (art.no. 860266) that has 84 programs. Power consumption of 4.8W per metre.</p> <p><b>861123 FLS44-IC-RBG</b> cool white lamps</p>	<p>L300mm</p>

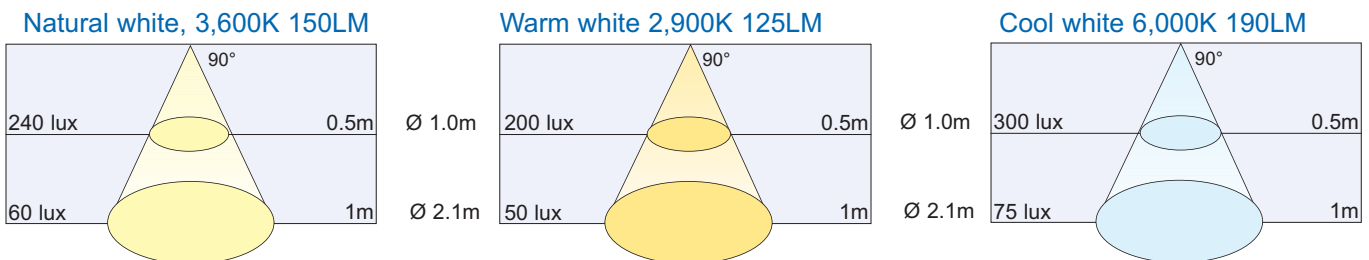
Art. No.	Klemko number	Specifications		
	876400	LA-RS-LTR4-AL-WW Aluminium	876400 : warm white lamp	
	876424	LA-RS-LTR4-AL-NW Aluminium	876424 : natural white lamp	
	876440	LA-RS-LTR4-AL-CW Aluminium	876440 : cool white lamp	
	876410	LA-RS-LTR4-ZW-WW Black	876410 : warm white lamp	
	876428	LA-RS-LTR4-ZW-NW Black	876428 : natural white lamp	
	876444	LA-RS-LTR4-ZW-CW Black	876444 : cool white lamp	
	876420	LA-RS-LTR4-WI-WW White	876420 : warm white lamp	
	876432	LA-RS-LTR4-WI-NW White	876432 : natural white lamp	
	876448	LA-RS-LTR4-WI-CW White	876448 : cool white lamp	
	LED light fitting, aluminium, black anodised or sprayed in RAL 9003 white, for 3 phase euro rail system 4 x 2.5W, rotatable and tiltable, with LED driver, 110V - 240V.		WW lamp : 2,900K 500LM NW lamp : 3,600K 600LM CW lamp : 6,000K 760LM	
			Angle : 35° Spot : Ø 75mm x L 90mm With bracket : W75 x H135 x L210mm	
		876402	LA-RS-LTR7-AL-WW Aluminium	876402 : warm white lamp
		876426	LA-RS-LTR7-AL-NW Aluminium	876426 : natural white lamp
		876442	LA-RS-LTR7-AL-CW Aluminium	876442 : cool white lamp
		876412	LA-RS-LTR7-ZW-WW Black	876412 : warm white lamp
876430		LA-RS-LTR7-ZW-NW Black	876430 : natural white lamp	
876446		LA-RS-LTR7-ZW-CW Black	876446 : cool white lamp	
876422		LA-RS-LTR7-WI-WW White	876422 : warm white lamp	
876434		LA-RS-LTR7-WI-NW White	876434 : natural white lamp	
876450		LA-RS-LTR7-WI-CW White	876450 : cool white lamp	
LED light fitting, aluminium, black anodised or sprayed in RAL 9003 white, for 3 phase euro rail system 7 x 2.5W, rotatable and tiltable, with LED driver, 110V - 240V.		WW lamp : 2,900K 875LM NW lamp : 3,600K 1,050LM CW lamp : 6,000K 1,330LM		
		Angle : 35° Spot : Ø 120mm x L 145mm With bracket : W75 x H180 x L270mm		
<p>Since the LED programme is developing rapidly the above specifications may have changed. Surf to <a href="http://www.klemko.nl">www.klemko.nl</a> for the current specifications</p>				

	Art. No.	Klemko number	Specifications	Dimensions
	876300	LR-3F-L100-AL	<b>Colour: aluminium</b> straight rail	Length 1,000mm
	876301	LR-3F-L200-AL	straight rail	Length 2,000mm
	876302	LR-3F-L300-AL	straight rail	Length 3,000mm
	876304	LR-VBE-LI-AL	end connector, left	(65mm)
	876306	LR-VBE-RE-AL	end connector, right	(65mm)
	876308	LR-VM-AL	mini joiner	
	876310	LR-VR-4MM-AL	straight connector	(100mm)
	876312	LR-VBL-LI-AL	L-connector, left	(65x65mm)
	876314	LR-VBL-RE-AL	L-connector, right	(65x65mm)
	876316	LR-VBT-LI-AL	T-connector, left	(65x95mm)
	876318	LR-VBT-RE-AL	T-connector, right	(65x95mm)
	876320	LR-VBX-AL	X-connector	(95x95mm)
	876322	LR-VBFLEX-AL	flexible connector	(160mm)
	876324	LR-EINDKAP-AL	end cap	
	876326	LR-ADAPTER-AL	lamp adaptor	
	876336	LR-3F-L100-W	<b>Colour: white</b> straight rail	Length 1,000mm
	876337	LR-3F-L200-W	straight rail	Length 2,000mm
	876338	LR-3F-L300-W	straight rail	Length 3,000mm
	876340	LR-VBE-LI-W	end connector, left	(65mm)
	876342	LR-VBE-RE-W	end connector, right	(65mm)
	876344	LR-VM-W	mini joiner	
	876346	LR-VR-4MM-W	straight connector	(100mm)
	876348	LR-VBL-LI-W	L-connector, left	(65x65mm)
	876350	LR-VBL-RE-W	L-connector, right	(65x65mm)
	876352	LR-VBT-LI-W	T-connector, left	(65x95mm)
	876354	LR-VBT-RE-W	T-connector, right	(65x95mm)
	876356	LR-VBX-W	X-connector	(95x95mm)
	876358	LR-VBFLEX-W	flexible connector	(160mm)
	876360	LR-EINDKAP-W	end cap	
	876362	LR-ADAPTER-W	lamp adaptor	
	876368	LR-3F-L100-ZW	<b>Colour: black</b> straight rail	Length 1,000mm
	876369	LR-3F-L200-ZW	straight rail	Length 2,000mm
	876370	LR-3F-L300-ZW	straight rail	Length 3,000mm
	876372	LR-VBE-LI-ZW	end connector, left	(65mm)
	876374	LR-VBE-RE-ZW	end connector, right	(65mm)
	876376	LR-VM-ZW	mini joiner	
	876378	LR-VR-4MM-ZW	straight connector	(100mm)
	876380	LR-VBL-LI-AL	L-connector, left	(65x65mm)
	876382	LR-VBL-RE-ZW	L-connector, right	(65x65mm)
	876384	LR-VBT-LI-ZW	T-connector, left	(65x95mm)
	876386	LR-VBT-RE-ZW	T-connector, right	(65x95mm)
	876388	LR-VBX-ZW	X-connector	(95x95mm)
	876390	LR-VBFLEX-ZW	flexible connector	(160mm)
	876392	LR-EINDKAP-ZW	end cap	
	876394	LR-ADAPTER-ZW	lamp adaptor	
	876396	LR-SUSP SET W 1,5	cable suspension system for track system	
	876397	LR-SUSP SET W	mounting bracket for track system	

## Photometric data—LED-IBM / LED-SPOT / LED-OPB / LED-MOKA



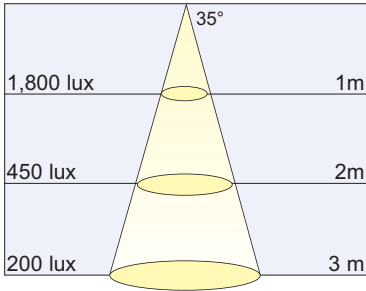
## Photometric data—LED flush-mounted spot/module LED-IB-SM



The values shown above are average values. The current photometric data is available at [www.klemko.nl](http://www.klemko.nl)

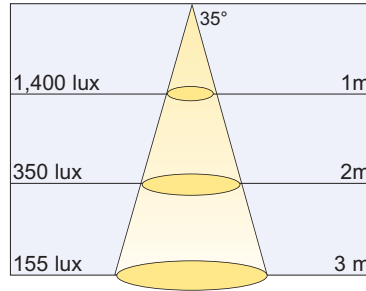
## Photometric data—LED track spot LA-RS-LTR4

Natural white, 3,600K 600LM



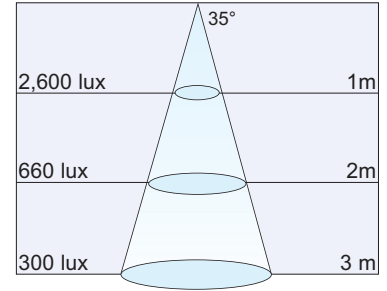
Ø 0.63m  
Ø 1.25m  
Ø 1.90m

Warm white 2,900K 500LM



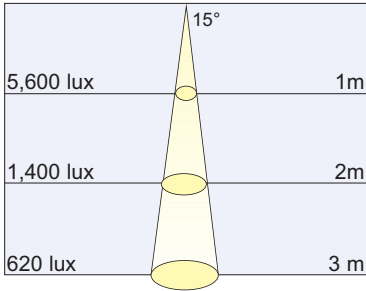
Ø 0.63m  
Ø 1.25m  
Ø 1.90m

Cool white 6,000K 760LM



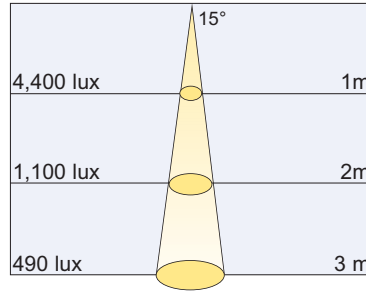
Ø 0.63m  
Ø 1.25m  
Ø 1.90m

Natural white, 3,600K 600LM



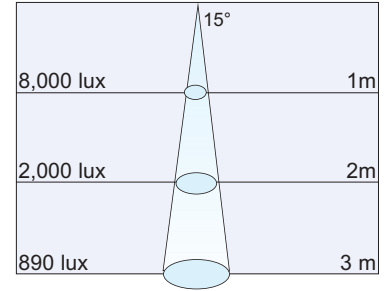
Ø 0.25m  
Ø 0.50m  
Ø 0.75m

Warm white 2,900K 500LM



Ø 0.25m  
Ø 0.50m  
Ø 0.75m

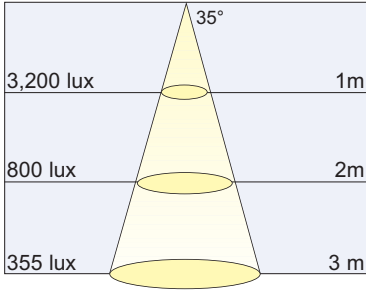
Cool white 6,000K 760LM



Ø 0.25m  
Ø 0.50m  
Ø 0.75m

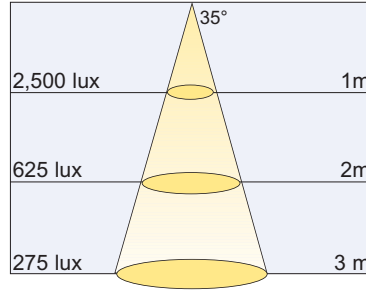
## Photometric data—LED track spot LA-RS-LTR7

Natural white, 3,600K 1050LM



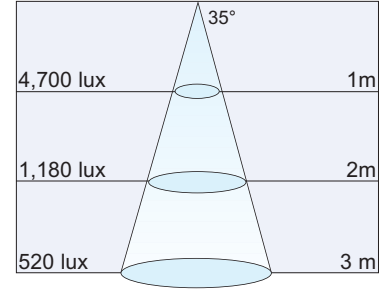
Ø 0.63m  
Ø 1.25m  
Ø 1.90m

Warm white 2,900K 875LM



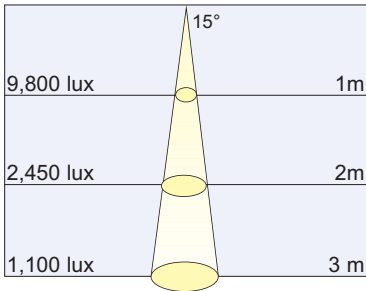
Ø 0.63m  
Ø 1.25m  
Ø 1.90m

Cool white 6,000K 1330LM



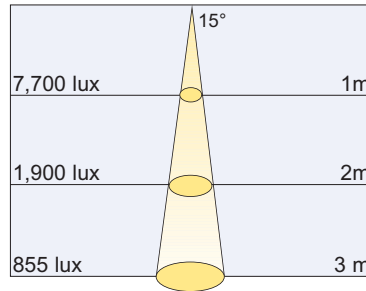
Ø 0.63m  
Ø 1.25m  
Ø 1.90m

Natural white, 3,600K 1050LM



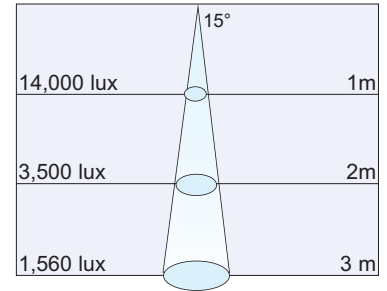
Ø 0.25m  
Ø 0.50m  
Ø 0.75m

Warm white 2,900K 875LM



Ø 0.25m  
Ø 0.50m  
Ø 0.75m

Cool white 6,000K 1330LM

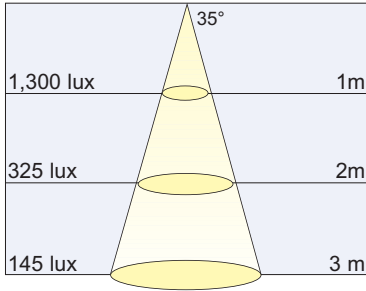


Ø 0.25m  
Ø 0.50m  
Ø 0.75m

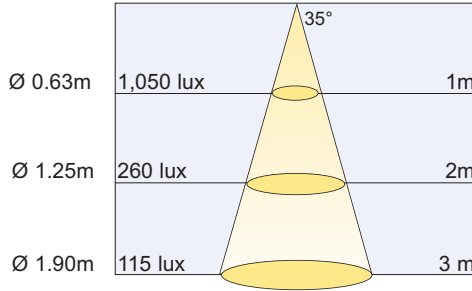
The values shown above are average values. The current photometric data is available at [www.klemko.nl](http://www.klemko.nl)

## Photometric data—LED LD-BAN-SPOT

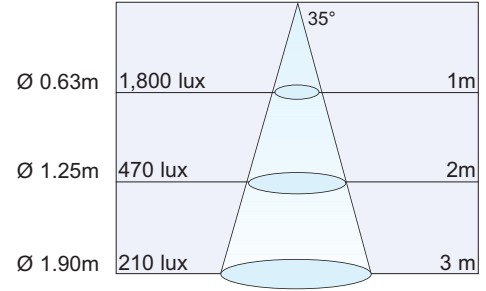
Natural white, 3,600K 450LM



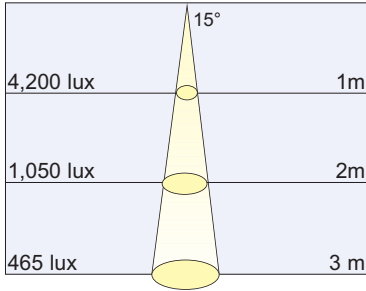
Warm white 2,900K 375LM



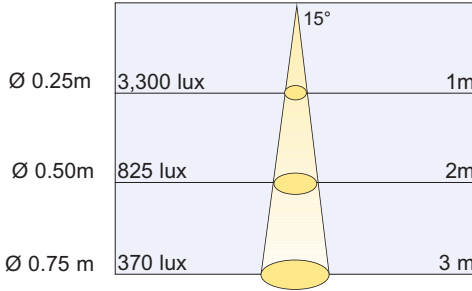
Cool white 6,000K 570LM



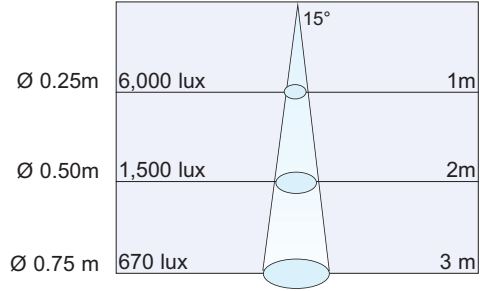
Natural white, 3,600K 450LM



Warm white 2,900K 375LM

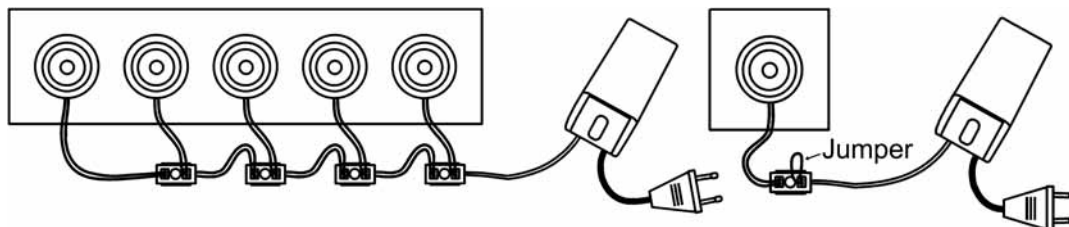


Cool white 6,000K 570LM



## Connecting and working with LEDs

**Note:** when only one LED is used the open connector output must be closed with a jumper (see diagram) to close the series circuit.  
**Note:** always disconnect the power supply from the LED driver before removing or fitting a LED. This is necessary since an unloaded LED driver will supply an excessive voltage that may damage the LEDs.



Klemko introduced its LED lighting product range in 2006, and has since developed many new products to expand the range. The rapid developments in the production methods used to manufacture LED chips with warm white colours have, in particular, truly pioneering. These warm white LEDs have given cause to many users deciding to change from halogen lighting to Klemko LEDs. The LEDs with a colour temperature of 2,900K and a luminous intensity of 125 lumens resulting from these developments have taken over from halogen lamps and incandescent lamps.

### Understanding and knowledge

Developments in LED technology continue to take place at a rapid pace. Our goal is to obtain the maximum amount of pleasing light from LEDs to further increase the users' appreciation of this new technology. Further developments in LEDs are, on average, taking place every quarter—and, consequently, the specifications are also changing every quarter. The light beam is now more concentrated and of a higher light intensity. Even the RA has been improved to the current level of about 0.85.

In view of these favourable developments it is extremely important that you recommend that your clients place one order for all the equipment they require for a specific project. This will avoid annoying differences in colour within one area. In addition, your logistics process will need to be based on the FIFO principle to ensure that LED light fittings with different production dates and codes are used in one area.

We print a production code on the packaging of LED light fittings to enable you to determine the binning/production badge for the LED light fitting.

For example, the meaning of **number P3 08 25 1** is as follows:

**P3** is the LED chip number / **08** is the year of manufacture / **25** is the number of the week in which the LED chip was manufactured and **1** is an additional sub-binning code used to tighten the tolerance of the colour temperature. This code can vary between 1 and 3. The installation of products with the same production code will guarantee that the colour temperature of all LED light fittings is the same.

### Changing over is easy.

Klemko's sophisticated LED products can often be installed as replacements for existing halogen lighting without drastic alterations, since the unique primary dimmable LED driver in combination with a click & go LED module can be connected to the existing dimmer (tronic) and wiring. A universal LED driver is also available which is equipped with DIP switches to configure the driver for the supply of either a constant voltage or a constant current. In addition—and in contrast to halogen lighting - the LED driver does not need to be installed near the LED light fittings, thereby avoiding aerial effects and reducing the risk of heat generation. Klemko LED lighting can achieve energy savings of as much as more than 90%, as a result of which LEDs are relatively cool in comparison with halogen lighting and forced cooling is unnecessary. The savings achieved by the lower power consumption and elimination of cooling result in a short payback time of both financial and environmental benefit. Moreover, further savings are achieved in maintenance costs, since LEDs require much less maintenance than halogen lamps.

We expect to see many more developments in LED lighting during the coming years. We shall keep you up to date on these developments via our website [www.klemko.nl](http://www.klemko.nl).

Klemko has compiled a starter's package intended specifically for users and electrical engineers wishing to be come acquainted with these LED products. This starter's package contains 1 LED driver, 3 warm white luxor flush-mounted spots complete with connection cable and 1 length 2-metre connector cable.

### Luxor starter's package:

LUXOR-PAKKET article number 876850



## Xe Hybrid conversion lamps

Maximum choice, minimum effort, no waste.

**Xe-Hybrid conversion lamps, reusable housing and a replaceable capsule (service life of 5,000 hours).**

The Marexim Hybrid concept was developed to combine the benefits of modern LED/energy-saving lamps and traditional incandescent lamps. Marexim Hybrid resolves most of the shortcomings in the system with an extremely simple and logical concept: why throw away the entire lamp when you can also simply replace the defective component? You can enjoy lamps that reach their full intensity immediately and support all standard dimmers. The lamps contain no mercury or lead—which is beneficial to the health and safety of your employees, and to the environment. In addition, you can save on storage space by standardising your light fittings and stocking just a small number of replaceable Hybrid Capsules.

### Properties

- \* Superior, replaceable Hybrid capsule (service life of 5,000 hours)
- \* Reusable glass envelope and lamp base
- \* Perfect power factor and CRI
- \* Patented filament design
- \* Resistant to vibration, overvoltages and peak voltages
- \* Energy savings of up to almost 35%
- \* No UV radiation

### Benefits






- \* Fully dimmable with all dimmers
- \* reaches full light intensity immediately
- \* Substantial reduction of maintenance and storage costs
- \* Simple replacement of Hybrid capsule
- \* No transformer required



### Applications

- \* Business premises and stores
- \* Cruise ships and superyachts
- \* Homes
- \* Bars and restaurants
- \* Hotels

### Equivalent light intensities

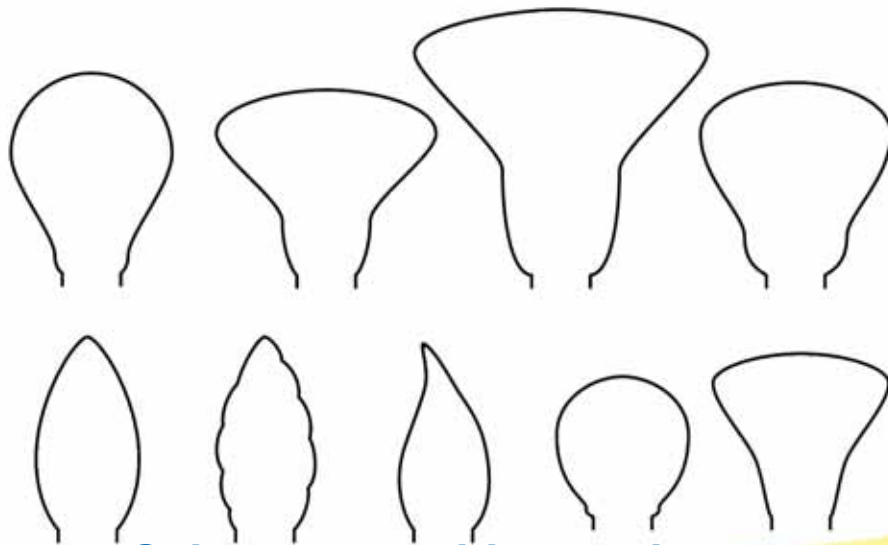
75W replaces	100W incandescent lamp
60W replaces	75W incandescent lamp
40W replaces	60W incandescent lamp
25W replaces	40W incandescent lamp
15W replaces	25W incandescent lamp

	Art. No.	Klemko number	Specifications
	878300	HYB-VOET-E26	Lamp base E26
	878302	HYB-VOET-E27	E27
	878304	HYB-VOET-BC	B22d
	878306	HYB-VOET-SES	E14
	878308	HYB-VOET-E12	E12
	878310	HYB-VOET-SBC	Ba15d
	878312	HYB-VOET-GU10	GU10

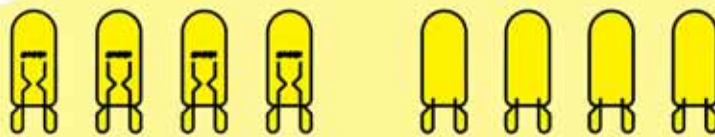
	Art. No.	HYB-XXXX-H-240V	Voltage	Power	Finish
	878400	HYB-15-H-240V	240V	15W	clear glass
	878402	HYB-25-H-240V	240V	25W	clear glass
	878404	HYB-40-H-240V	240V	40W	clear glass
	878406	HYB-60-H-240V	240V	60W	clear glass
	878408	HYB-75-H-240V	240V	75W	clear glass
	878410	HYB-15-M-240V	240V	15W	frosted glass
	878412	HYB-25-M-240V	240V	25W	frosted glass
	878414	HYB-40-M-240V	240V	40W	frosted glass
	878416	HYB-60-M-240V	240V	60W	frosted glass
	878418	HYB-75-M-240V	240V	75W	frosted glass

## Xe Hybrid conversion lamps

	Art. No.	Klemko number	Specifications
<p>878350      878352</p>	878350 878352	HYB-GLS-H HYB-GLS-M	<b>Envelope</b> Glass top—gls Glass top—gls <b>Finish</b> clear glass frosted glass
<p>878354      878356</p>	878354 878356	HYB-CAN-ST-H HYB-CAN-ST-M	Glass top—candle Glass top—candle clear glass frosted glass
<p>878358      878360</p>	878358 878360	HYB-CAN-TW-H HYB-CAN-TW-M	Top twisted candle Top twisted candle clear glass frosted glass
<p>878362      878364      878366</p>	878362 878364 878366	HYB-CAN-FT-H HYB-CAN-FT-M HYB-CAN-FT-GLD	Top flametip candle Top flametip candle Top flametip candle clear glass frosted glass gold
<p>878368      878370      878372</p>	878368 878370 878372	HYB-LUSTRE-H HYB-LUSTRE-M HYB-LUSTRE-GLD	Top—p45 lustre Top—p45 lustre Top—p45 lustre clear glass frosted glass gold
<p>878374      878376</p>	878374 878376	HYB-PAR20 HYB-PAR30	Glass top—par20 Glass top—par30
<p>878378      878380</p>	878378 878380	HYB-R80-H HYB-R80-M	Glass top—r25/r80 Glass top—r25/r80 clear glass frosted glass
<p>878382      878384</p>	878382 878384	HYB-R63-H HYB-R63-M	Glass top—r20/r63 Glass top—r20/r63 clear glass frosted glass

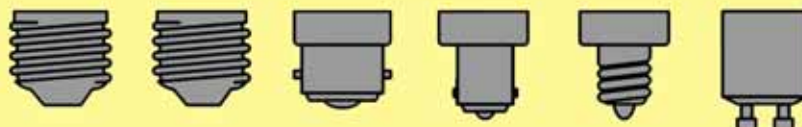


**Select a reusable envelope**



**Select a replaceable capsule (service life of 5,000 hours)**

+



**Select a reusable base**

With more than 1,200 possible combinations you will always be able to select the energy-saving Hybrid lamp for your lighting application. Moreover, the lamps produce no waste—which is to your financial benefit and to the benefit of our planet.

**Create your perfect lamp**