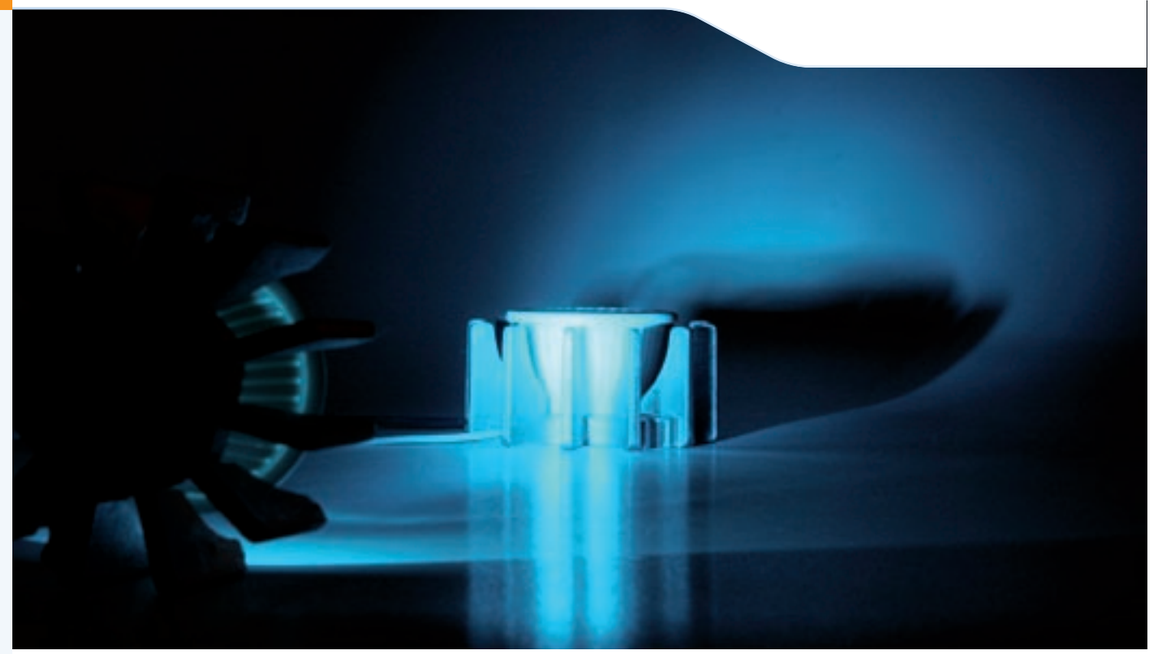
220



LED Modules

These series of led modules and spotlights stand out because of the integrated state-of-the-art LED-technology. “Luxeon TM LED light sources have the efficiency, power, durability and reliability which are necessary to live up to the promise of solid-state lighting. Not only are Luxeon TM the brightest LEDs, these light sources also offer an industry-leading lumen conservation in a mercury-free casing, without heat or UV-radiation in the light bundle. Nor do they contain synthetic resin, because that is susceptible to optic decay over a period of time, which results in a bad lumen conservation”. (Source:Philips) The table underneath gives an overview of the available wavelength/ colourtemperatures and light yield of the applied Luxeon I & III leds.

TRIO light
5.1 LED Modules

Luxeon I

Type LED	LED-colour	Wavelength (nm) / Colourtemperature (K)	Luminous flux (lm)
Luxeon I	Red	625nm	44lm
Luxeon I	Amber	590nm	42lm
Luxeon I	Green	530nm	53lm
Luxeon I	Blue	470nm	16lm
Luxeon I	White	5000K	45lm
Luxeon I	Warmwhite	3500K	20lm

Luxeon III

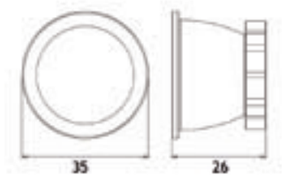
Type LED	LED-colour	Wavelength (nm) / Colourtemperature (K)	Luminous flux (lm)
Luxeon III	Red	627nm	140lm for 1,4A
Luxeon III	Amber	590nm	70lm for 1,4A
Luxeon III	Green	530nm	51lm for 700mA
Luxeon III	Blue	470nm	13lm for 700mA
Luxeon III	White	5500K	60lm for 700mA

Configuration possibilities and applications

Led-modules are available with different lenses, radiation angles, casings and light colours, which makes them suitable for many applications and which gives designers a lot of flexibility to look for the most creative and perfect light solutions. All modules are provided with a cooling device in order to control warmth optimally and guarantee quality. Most led-modules are also waterproof (IP67-65) which makes them the ideal solution for outdoors applications. There are specific connection material and special LED-drivers (350mA/700mA) and dimmers available for the use and application of the the led-modules.

LED Module 10°

Luxeon I

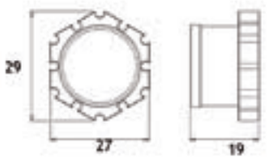


Dimensions	Ø35xH26mm
Power (W)	1W
Degree of protection (IP)	IP65
Housing	polymer lens moulded on aluminium heat sink
Radiation angle (°)	10° lens
LED colour(s)	amber (590nm), red (625nm), green (530nm), blue (470nm), white (5000K) or warm white (3500K)
Packing	per piece, connection material not included
Weight (g)	22g
LED	Luxeon I
Cord	250mm, 0,5mm² teflon
Mounting	with M3 screws
Luminous flux (lm)	amber (42lm), red (44lm), green (53lm), blue (16lm), white (45lm) or warm white (20lm)
To be used with	350mA or 700mA LED Driver and connection material
Current (mA)	350mA

Product code	Description
011053	LED Module, 10˚, Luxeon I, amber [pc]
011059	LED Module, 10˚, Luxeon I, red [pc]
011057	LED Module, 10˚, Luxeon I, green [pc]
011055	LED Module, 10˚, Luxeon I, blue [pc]
011061	LED Module, 10˚, Luxeon I, white [pc]
011063	LED Module, 10˚, Luxeon I, warm white [pc]

LED Module 15°

Luxeon I

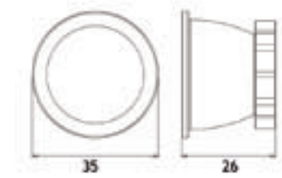


Dimensions	Ø22xH18.8mm
Power (W)	1W
Degree of protection (IP)	IP65
Housing	polymer lens moulded on aluminium heat sink
Radiation angle (°)	15° lens
LED colour(s)	amber (590nm), red (625nm), green (530nm), blue (470nm), white (5000K) or warm white (3500K)
Packing	per piece, connection material not included
Weight (g)	15g
LED	Luxeon I
Cord	250mm, 0.5mm² teflon
Mounting	with M3 screws
Luminous flux (lm)	amber (42lm), red (44lm), green (53lm), blue (16lm), white (45lm) or warm white (20lm)
To be used with	350mA or 700mA LED Driver and connection material
Current (mA)	350mA

Product code	Description
011065	LED Module, 15˚, Luxeon I, amber [pc]
011071	LED Module, 15˚, Luxeon I, red [pc]
011069	LED Module, 15˚, Luxeon I, green [pc]
011067	LED Module, 15˚, Luxeon I, blue [pc]
011073	LED Module, 15˚, Luxeon I, white [pc]
011075	LED Module, 15˚, Luxeon I, warm white [pc]

LED Module 45°

Luxeon I

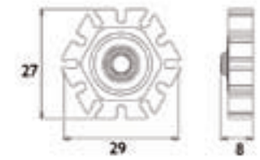


Dimensions	Ø35xH26mm
Power (W)	1W
Degree of protection (IP)	IP65
Housing	polymer lens moulded on aluminium heat sink
Radiation angle (°)	45° lens
LED colour(s)	amber (590nm), red (625nm), green (530nm), blue (470nm), white (5000K) or warm white (3500K)
Packing	per piece, connection material not included
Weight (g)	22g
LED	Luxeon I
Cord	250mm, 0.5mm² teflon
Mounting	With M3 screws
Luminous flux (lm)	amber (42lm), red (44lm), green (53lm), blue (16lm), white (45lm) or warm white (20lm)
To be used with	350mA or 700mA LED Driver and connection material
Current (mA)	350mA

Product code	Description
011087	LED Module, 45˚, Luxeon I, amber [pc]
011093	LED Module, 45˚, Luxeon I, red [pc]
011091	LED Module, 45˚, Luxeon I, green [pc]
011089	LED Module, 45˚, Luxeon I, blue [pc]
011095	LED Module, 45˚, Luxeon I, white [pc]
011097	LED Module, 45˚, Luxeon I, warm white

LED Module 110°

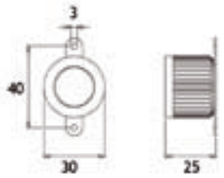
Luxeon I



Dimensions	Ø35xH5.7mm
Power (W)	1W
Degree of protection (IP)	IP65
Housing	moulded on aluminium heat sink
Radiation angle (°)	110°
LED colour(s)	amber (590nm), red (625nm), green (530nm), blue (470nm), white (5000K) or warm white (3500K)
Packing	per piece, connection material not included
Weight (g)	11.5g
LED	Luxeon I
Cord	250mm, 0.5mm² teflon
Mounting	with M3 screws
Luminous flux (lm)	amber (42lm), red (44lm), green (53lm), blue (16lm), white (45lm) or warm white (20lm)
To be used with	350mA or 700mA LED Driver and connection material
Current (mA)	350mA

Product code	Description
011109	LED Downlight, 110˚, Luxeon I, amber [pc]
011115	LED Downlight, 110˚, Luxeon I, red [pc]
011113	LED Downlight, 110˚, Luxeon I, green [pc]
011111	LED Downlight, 110˚, Luxeon I, blue [pc]
011117	LED Downlight, 110˚, Luxeon I, white [pc]
011119	LED Downlight, 110˚, Luxeon I, warm white [pc]

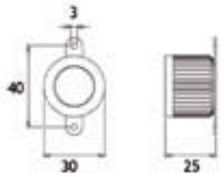
LED Module Alu 10°



	Luxeon I
Dimensions	Ø30xH25mm
Power (W)	1W
Degree of protection (IP)	IP65
Housing	anodised aluminium with polymer lens
Radiation angle (°)	10° lens
LED colour(s)	amber (590nm), red (625nm), green (530nm), blue (470nm), white (5000K) or warm white (3500K)
Packing	per piece, connection material not included
Weight (g)	40g
LED	Luxeon I
Cord	250mm, 0.5mm² teflon
Mounting	with M3 screws
Luminous flux (lm)	amber (42lm), red (44lm), green (53lm), blue (16lm), white (45lm) or warm white (20lm)
To be used with	350mA or 700mA LED Driver and connection material
Current (mA)	350mA

Product code	Description
011121	LED Module Alu, 10˚, Luxeon I, amber [pc]
011127	LED Module Alu, 10˚, Luxeon I, red [pc]
011125	LED Module Alu, 10˚, Luxeon I, green [pc]
011123	LED Module Alu, 10˚, Luxeon I, blue [pc]
011129	LED Module Alu, 10˚, Luxeon I, white [pc]
011131	LED Module Alu, 10˚, Luxeon I, warm white [pc]

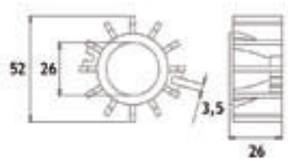
LED Module 45°



	Luxeon I
Dimensions	Ø30xH25mm
Power (W)	1W
Degree of protection (IP)	IP65
Housing	anodised aluminium with polymer lens
Radiation angle (°)	45° lens
LED colour(s)	amber (590nm), red (625nm), green (530nm), blue (470nm), white (5000K) or warm white (3500K)
Packing	per piece, connection material not included
Weight (g)	40g
LED	Luxeon I
Cord	250mm, 0.5mm² teflon
Mounting	with M3 screws
Luminous flux (lm)	amber (42lm), red (44lm), green (53lm), blue (16lm), white (45lm) or warm white (20lm)
To be used with	350mA or 700mA LED Driver and connection material
Current (mA)	350mA

Product code	Description
011133	LED Module Alu, 45˚, Luxeon I, amber [pc]
011139	LED Module Alu, 45˚, Luxeon I, red [pc]
011137	LED Module Alu, 45˚, Luxeon I, green [pc]
011135	LED Module Alu, 45˚, Luxeon I, blue [pc]
011141	LED Module Alu, 45˚, Luxeon I, white [pc]
011143	LED Module Alu, 45˚, Luxeon I, warm white [pc]

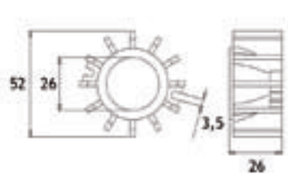
LED Module 6°



	Luxeon III
Dimensions	Ø35xH26mm
Power (W)	3W
Degree of protection (IP)	IP65
Housing	polymer lens moulded on aluminium heat sink
Radiation angle (°)	6° lens
LED colour(s)	amber (590nm), red (627nm), green (530nm), blue (470nm) or white (5500K)
Packing	per piece, connection material not included
Weight (g)	50g
LED	Luxeon III
Cord	250mm, 0.5mm² teflon
Mounting	with M3 screws
Luminous flux (lm)	amber (70lm/1.4A), red (140lm/1.4A) green (64lm), blue (23lm) or white (65lm)
To be used with	700mA LED Driver and connection material
Current (mA)	700mA

Product code	Description
011099	LED Module, 6˚, Luxeon III, amber [pc]
011105	LED Module, 38˚, Luxeon III, red [pc]
011103	LED Module, 6˚, Luxeon III, green [pc]
011101	LED Module, 6˚, Luxeon III, blue [pc]
011107	LED Module, 6˚, Luxeon III, white [pc]

LED Module 38°

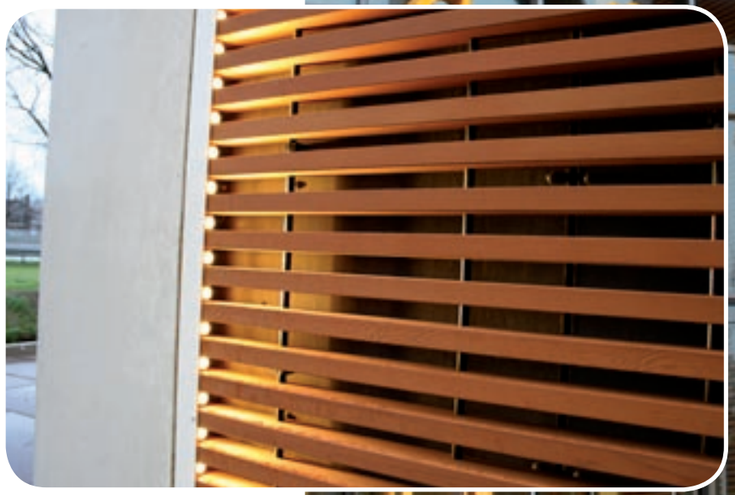


	Luxeon III
Dimensions	Ø35xH26mm
Power (W)	3W
Degree of protection (IP)	IP65
Housing	polymer lens moulted on aluminium heat sink
Radiation angle (°)	38° lens
LED colour(s)	amber (590nm), red (627nm), green (530nm), blu (470nm) or wit (5500K)
Packing	per piece, connection material not included
Weight (g)	50g
LED	Luxeon III
Input	700mA
Cord	250mm, 0.5mm² teflon
Mounting	with M3 screws
Luminous flux (lm)	amber (70lm/1.4A), red (140lm/1.4A), green (64lm), blue (23lm) or white (65lm)
To be used with	700mA LED Driver and connection material

Product code	Description
011077	LED Module, 38˚, Luxeon III, amber [pc]
011083	LED Module, 38˚, Luxeon III, red [pc]
011081	LED Module, 38˚, Luxeon III, green [pc]
011079	LED Module, 38˚, Luxeon III, blue [pc]
011085	LED Module, 38˚, Luxeon III, white [pc]

LED Module 15 - warm white

‘Pré Wonen’ in Velserbroek, The Netherlands, has been designed by KCAP and are modern business premises encased in a copper front combined with white concrete frames. Two large openings in the front, together with the atrium guarantee enough daylight inside the building. The openings, of which the entrance is one, have been illuminated in a special way, using 744 warmwhite LED Modules with a 15 degrees lens. The modules were built into the woodwork of the openings using a profile that holds the modules. The entire set-up is dimmable.



TRIO light

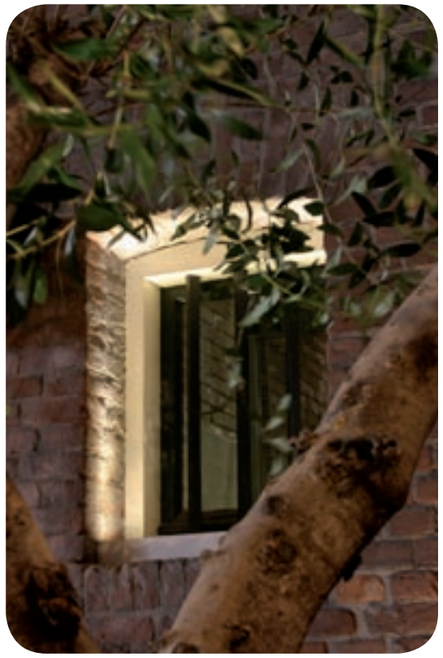
Project illustration

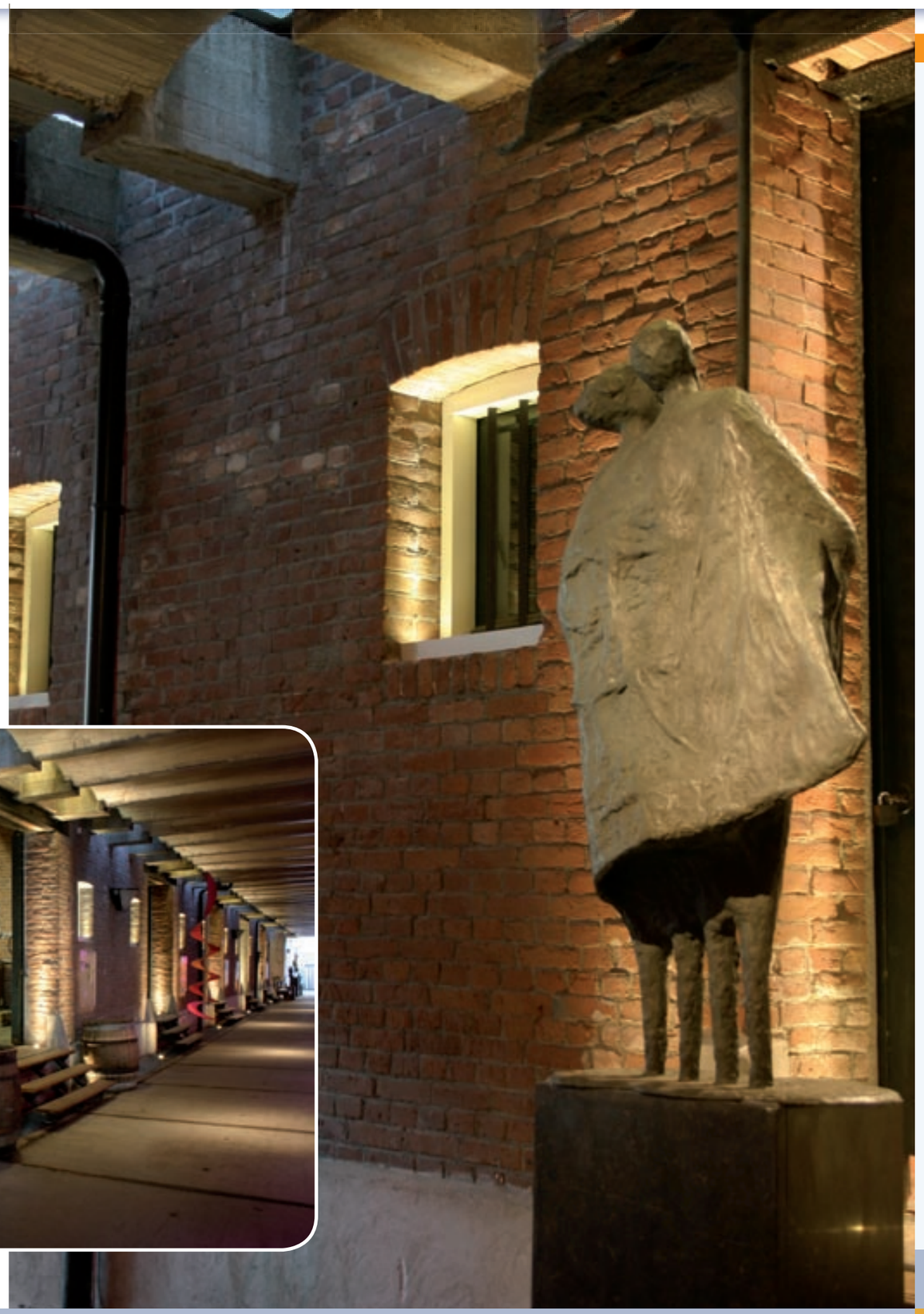
LED Module 15 - warm white

www.triolight.com Creative Lighting Concepts

LED Module - warm withe

Primo Exposures executed this project (Business park West Rotterdam The Netherlands). The Tri-O-Light transformers and led-modules have been built into ready-made fixtures, placed in the windows. In order to light the windows beautifully up, each fixture contains 6 warmwhite led-modules, including a built-in transformer.





TRIO light

Project illustration

LED Module - warm withe

www.triolight.com Creative Lighting Concepts

LED Spotlights

This series of spotlights stands out because of the integrated state-of-the-art LED-technology. “Luxeon TM LED light sources have the efficiency, power, durability and reliability which are necessary to live up to the promise of solid-state lighting. Not only are Luxeon TM the brightest LEDs, these light sources also offer an industry-leading lumen conservation in a mercury-free casing, without heat or UV-radiation in the light bundle. Nor do they contain synthetic resin, because that is susceptible to optic decay over a period of time, which results in a bad lumen conservation”. (Source:Philips) The table underneath gives an overview of the available wavelength/ colourtemperatures and light yield of the applied Luxeon I & III leds.

Luxeon I

Type LED	LED-colour	Wavelength (nm) / Colourtemperature (K)	Luminous flux (lm)
Luxeon I	Red	625nm	44lm
Luxeon I	Amber	590nm	42lm
Luxeon I	Green	530nm	53lm
Luxeon I	Blue	470nm	16lm
Luxeon I	White	5000K	45lm
Luxeon I	Warmwhite	3500K	20lm

Luxeon III

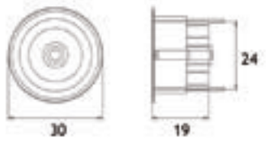
Type LED	LED-colour	Wavelength (nm) / Colourtemperature (K)	Luminous flux (lm)
Luxeon III	Red	627nm	140lm for 1,4A
Luxeon III	Amber	590nm	70lm for 1,4A
Luxeon III	Green	530nm	51lm for 700mA
Luxeon III	Blue	470nm	13lm for 700mA
Luxeon III	White	5500K	60lm for 700mA

Fixtures and applications

The leds have been built into several fixtures and are available with different lenses, radiation angles, casings and light colours, which makes them suitable for many building applications and gives huge fflexibility. All modules are provided with a cooling device in order to control warmth optimally and guarantee quality. Most led-modules are also waterproof (IP67-65) which makes them the ideal solution for outdoors applications. There are specific connection material and special LED-drivers (350mA/700mA) and dimmers available for the use and application of the the led-modules.

LED downlight 110°

Luxeon I

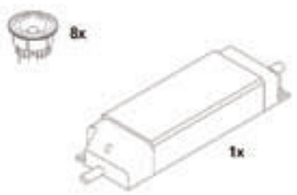


Dimensions	Ø30xH19mm
Power (W)	1W
Housing	chrome, thermal-resistant ABS
Radiation angle (°)	110°
LED colour(s)	amber (590nm), red (625nm), green (530nm), blue (470nm), white (5000K) or warm white (3500K)
Packing	per piece, connection material not included
Weight (g)	20.5g
LED	Luxeon I
Cord	250mm, 0.5mm² teflon
Mounting	with springs
Luminous flux (lm)	amber (42lm), red (44lm), green (53lm), blue (16lm), white (45lm) or warm white (20lm)
To be used with	350mA or 700mA LED Driver and connection material
Current (mA)	350mA

Product code	Description
010869	LED Downlight, 110°, Luxeon I, amber [pc]
010881	LED Downlight, 110°, Luxeon I, red [pc]
010877	LED Downlight, 110°, Luxeon I, green [pc]
010873	LED Downlight, 110°, Luxeon I, blue [pc]
010885	LED Downlight, 110°, Luxeon I, white [pc]
010889	LED Downlight, 110°, Luxeon I, warm white [pc]

LED Downlight Set 110°

8xLuxeon I

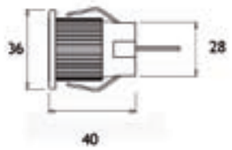


Dimensions	Ø30xH19mm
Power (W)	1W/downlight
Housing	chrome, thermal-resistant ABS
Radiation angle (°)	110°
LED colour(s)	amber (590nm), red (625nm), green (530nm), blue (470nm), white (5000K) or warm white (3500K)
Packing	8 downlights, 350mA Driver and connection material included
Weight (g)	400g/ set
LED	Luxeon I
Cord	250mm, 0,5² teflon
Mounting	with springs
Luminous flux (lm)	amber (42lm), red (44lm), green (53lm), blue(16lm), white (45lm) or warm white (20lm)
Current (mA)	350mA

Product code	Description
010871	LED Downlight Set, 110°, Luxeon I, amber [set]
010883	LED Downlight Set, 110°, Luxeon I, red [set]
010879	LED Downlight Set, 110°, Luxeon I, green [set]
010875	LED Downlight Set, 110°, Luxeon I, blue [set]
010887	LED Downlight Set, 110°, Luxeon I, white [set]
010891	LED Downlight Set, 110°, Luxeon I, warm white [set]

Mini Flood Built- in

Luxeon I

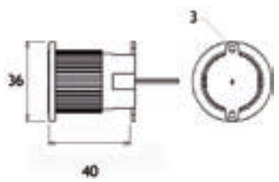


Dimensions	Ø36xH40mm
Power (W)	1W
Degree of protection (IP)	IP65
Housing	aluminium
Radiation angle (°)	45° lens
LED colour(s)	amber (590nm), red (625nm), green (530nm), blue (470nm), white (5000K) or warm white (3500K)
Packing	per piece, connection material not included
Weight (g)	58,5g
LED	Luxeon I
Cord	250mm, 0,5mm² teflon
Mounting	with springs
Luminous flux (lm)	amber (42lm), red (44lm), green (53lm), blue (16lm), white (45lm) or warm white (20lm)
To be used with	350mA or 700mA LED Driver and connection material
Current (mA)	350mA

Product code	Description
010993	Mini Flood Built-in, 45°, Luxeon I, amber [pc]
010999	Mini Flood Built-in, 45°, Luxeon I, red [pc]
010997	Mini Flood Built-in, 45°, Luxeon I, green [pc]
010995	Mini Flood Built-in, 45°, Luxeon I, blue [pc]
011001	Mini Flood Built-in, 45°, Luxeon I, white [pc]
011003	Mini Flood Built-in, 45°, Luxeon I, warm white [pc]

Mini Flood Mounted

Luxeon I

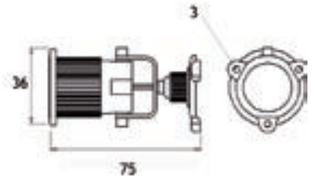


Dimensions	Ø36xH40mm
Power (W)	1W
Degree of protection (IP)	IP65
Housing	aluminium
Radiation angle (°)	45° lens
LED colour(s)	amber (590nm), red (625nm), green (530nm), blu (470nm), white (5000K) or warm white (3500K)
Packing	per piece, connection material not included
Weight (g)	59g
LED	Luxeon I
Cord	250mm, 0,5mm² teflon
Mounting	with M3 screws
Luminous flux (lm)	amber (42lm), red (44lm), green (53lm), blue (16lm), white (45lm) or warm white (20lm)
To be used with	350mA or 700mA LED Driver connection material
Current (mA)	350mA

Product code	Description
011031	Mini Flood Mounted, 45°, Luxeon I, amber [pc]
011037	Mini Flood Mounted, 45°, Luxeon I, red [pc]
011035	Mini Flood Mounted, 45°, Luxeon I, green [pc]
011033	Mini Flood Mounted, 45°, Luxeon I, blue [pc]
011039	Mini Flood Mounted, 45°, Luxeon I, white [pc]
011041	Mini Flood Mounted, 45°, Luxeon I, warm white [pc]

Miniflood adjustable

Luxeon I



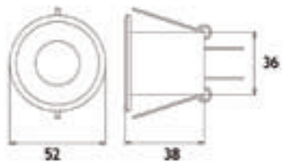
Dimensions	Ø36xH73mm
Power (W)	1W
Degree of protection (IP)	IP65
Housing	aluminium
Radiation angle (°)	45° lens
LED colour(s)	amber (590nm), red (625nm), green (530nm), blue (470nm), white (5000K) or warm white (3500K)
Packing	per piece, connection material not included
Weight (g)	78,5g
LED	Luxeon I
Cord	250mm, 0,5mm² teflon
Mounting	with M3 screws
Luminous flux (lm)	amber (42lm), red (44lm), green (53lm), blue (16lm), white (45lm) or warm white (20lm)
To be used with	350mA or 700mA LED Driver and connection material
Current (mA)	350mA

Product code / Description

Product code	Description
011017	Mini Flood Adjustable, 45°, Luxeon I, amber [pc]
011023	Mini Flood Adjustable, 45°, Luxeon I, red [pc]
011021	Mini Flood Adjustable, 45°, Luxeon I, green [pc]
011019	Mini Flood Adjustable, 45°, Luxeon I, blue [pc]
011025	Mini Flood Adjustable, 45°, Luxeon I, white [pc]
011027	Mini Flood Adjustable, 45°, Luxeon I, warm white [pc]

Ceiling spot

Luxeon I



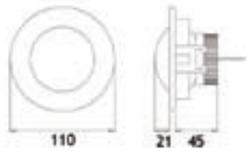
Dimensions	Ø52xH38mm
Power (W)	1W
Degree of protection (IP)	IP55
Housing	aluminium/ stainless steel
Radiation angle (°)	30° lens
LED colour(s)	amber (590nm), red (625nm), green (530nm), blue (470nm), white (5000K) or warm white (3500K)
Packing	per piece, connection material not included
Weight (g)	92g
LED	Luxeon I
Cord	200mm, 0,5mm² teflon
Mounting	with springs
Luminous flux (lm)	amber (42lm), red (44lm), green (53lm), blue (16lm), white (45lm) or warm white (20lm)
To be used with	350mA or 700mA LED Driver and connection material
Current (mA)	350mA

Product code / Description

Product code	Description
010893	Ceiling spot, 30°, Luxeon I, amber [pc]
010899	Ceiling spot, 30°, Luxeon I, red [pc]
010897	Ceiling spot, 30°, Luxeon I, green [pc]
010895	Ceiling spot, 30°, Luxeon I, blue [pc]
010903	Ceiling spot, 30°, Luxeon I, white [pc]
010905	Ceiling spot, 30°, Luxeon I, warm white [pc]

Luna Ø110

3x Luxeon I



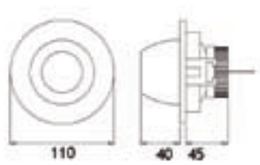
Dimensions	Ø110xH45mm
Power (W)	3W
Housing	aluminium
Radiation angle (°)	110°
LED colour(s)	white (5000K) or warm white (3500K)
Packing	per piece, connection material not included
Weight (g)	280g
LED	Luxeon III
Cord	200mm, 0,5mm² teflon
Mounting	with springs
Luminous flux (lm)	white (54lm) or warm white (60lm)
To be used with	350mA or 700mA LED Driver and connection material
Colour	white
Current (mA)	350mA

Product code / Description

Product code	Description
011597	Luna, 110mm, 3xLuxeon I, white [pc]
011599	Luna, 110mm, 3xLuxeon I, warm white [pc]

Saturnus Ø110

3x Luxeon I



Dimensions	Ø110xH45mm
Power (W)	3W
Housing	aluminium
Radiation angle (°)	110°
LED colour(s)	white (5000K) or warm white (3500K)
Packing	per piece, connection material not included
Weight (g)	280g
LED	Luxeon III
Cord	200mm, 0,5mm² teflon
Mounting	with springs
Luminous flux (lm)	white (45lm) or warm white (20lm)
To be used with	350mA or 700mA LED Driver and connection material
Current (mA)	350mA
Trim	diffuse glass

Product code / Description

Product code	Description
011791	Saturnus, 110mm, 3xLuxeon I, white [pc]
011793	Saturnus, 110mm, 3xLuxeon I, warm white [pc]

Mini Flood adjustable - warm white

The “Van Speelklok tot Pierement” museum, Utrecht (The Netherlands).
A total of 64 Mini Flood Lights - tilting have been installed in this museum. These paper dolls were made in 1870 and are not allowed to be exposed to UV radiation. Fire safety regulations also state that the spotlights are not allowed to create too much heat. The Mini Flood Lights radiate only a minimal amount of UV and are fitted with a cooling device to deliver optimal heat control.

www.triolight.com

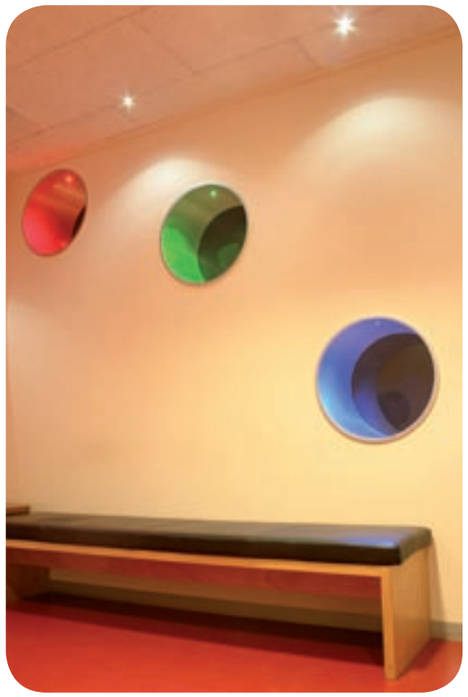
Creative Lighting Concepts

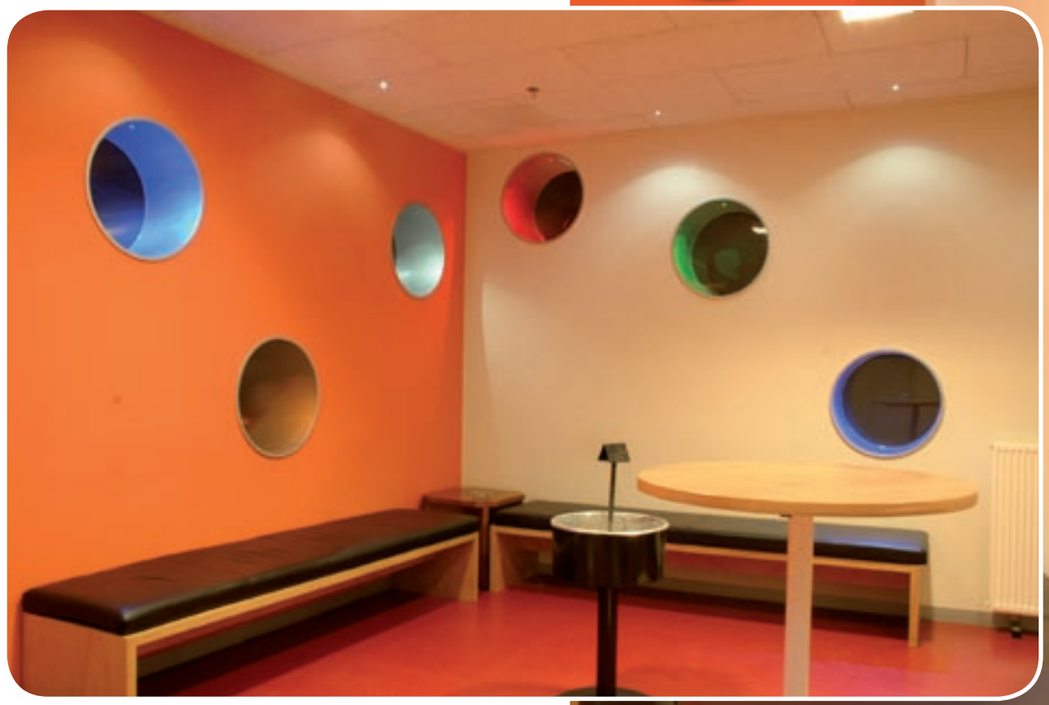
Project illustration

Mini Flood adjustable - warm white

LED Downlight 110 - various colours

The Vredenburg-theater in Utrecht (The Netherlands) used downlight spotlights with a Luxeon I led (1W). Using leds of different colours creates a playful effect in the smoking area.





TRIO light

Project illustration

LED Downlight 110 - various colours

MCPCB

MCPCB (Metal Core Printed Circuit Board)
The MCPCB series is one of 6 different modular led-prints with integrated ultra bright high power leds (Luxeon I). These modular light sources have many possible uses and will inspire product designers and architects to provide ideal and creative solutions.

All MCPCBs are available in the colours red, amber, green, blue, white and warmwhite. The 3xLuxeon I MCPCB is also available in RGB finish. The leds on the standard MCPCB have a 140-degree radiation angle. This can be adjusted to a 10 or 45-degree radiation angle by using an acrylic lens. In the chart below you will find more information on the available wavelengths/ colour temperatures and light output of the integrated Luxeon I LEDs.

LED	Colour	Wave length (nm) / Colour temperature (K)	Luminous flux (lm)
Luxeon I	Red	630nm	44lm
Luxeon I	Amber	594nm	42lm
Luxeon I	Green	525nm	53lm
Luxeon I	Blue	470nm	16lm
Luxeon I	White	5500K	45lm
Luxeon I	Warm white	3000-3500K	20lm

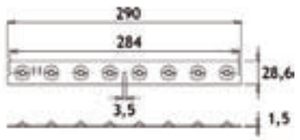
In order to guarantee quality, the prints have a ‘Metal Core’ structure. For optimum heat control, steady light output and a long lifetime it is essential to use a MCPCB in combination with a cooling device, which is available on request. Other MCPCB configurations, like RGB, are available on request. The recommended PCB temperature is 55°C.

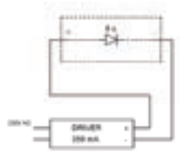
The MCPCB comes with solder connection points and is connected to a LED Driver. The chart below provides an overview of the technical specifications such as the power, number of solder connection points and compatible LED Driver per MCPCB.

Product code	No. LEDs	Power (W)	No. connection points	LED Drivers
MCPCB8	8	8W	1 (for 1x8 Luxeon I)	1 (350mA)
MCPCB3	3	3W	1 (for 1x3 Luxeon I)	1 (350mA)
MCPCB3 RGB	3 (RGB)	3W	3 (for 3x1 Luxeon I)	1 (Dimmer/Driver)
MCPCB6	6	6W	1 (for 1x6 Luxeon I)	1 (350mA)
MCPCB12	12	12W	2 (for 2x6 Luxeon I)	2 (350mA) of 1 (700mA)
MCPCB24	24	24W	3 (for 3x8 Luxeon I)	3 (350mA)

MCPCB8-140

8xLuxeon I



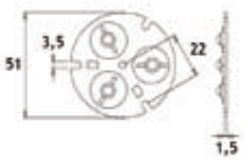


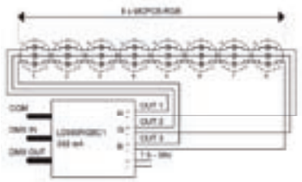
Dimensions	L290xW28.6xH1.5mm
Power (W)	8W
Housing	metal core, black-white
Radiation angle (°)	140° (warm white 110°), 10 or 45° lens on request
LED colour(s)	amber (590nm), red (625nm), green (530nm), blue (470nm), white (5000K) or warm white (3500K)
Packing	per piece, connection material not included
Weight (g)	50g
LED	Luxeon I
Luminous flux (lm)	amber (42lm/ led), red (44lm/ led), green (53lm/ led), blue (16lm/ led), white (45lm/ led) or warm white (20lm/ led)
To be used with	350mA LED Driver and connection material
Connection	1 solder connection point 1x8 Luxeon I
Number of LEDs	8
Facilities	heat sink on request
Current (mA)	350mA

Product code	Description
011665	MCPCB, 140°, 8xLuxeon I, amber [pc]
011671	MCPCB, 140°, 8xLuxeon I, red [pc]
011669	MCPCB, 140°, 8xLuxeon I, green [pc]
011667	MCPCB, 140°, 8xLuxeon I, blue [pc]
011673	MCPCB, 140°, 8xLuxeon I, white [pc]
011663	MCPCB, 110°, 8xLuxeon I, warm white [pc]

MCPCB3-140

3xLuxeon I RGB



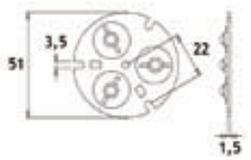


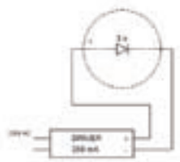
Dimensions	Ø51xH1.5mm
Power (W)	3W
Housing	metal core, black-white
Radiation angle (°)	140°, 10 of 45° lens on request
LED colour(s)	RGB
Packing	per piece, connection material not included
Weight (g)	25g
LED	Luxeon I
To be used with	350mA LED Driver and connection material
Connection	prepared with 3x connection cable 60mm
Number of LEDs	3
Facilities	heat sink on request
Current (mA)	350mA

Product code	Description
011647	MCPCB, 140°, 3xLuxeon I, RGB [pc]

MCPCB3-140

3xLuxeon I



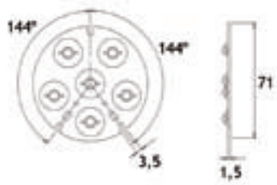


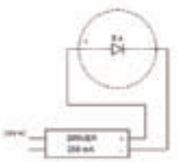
Dimensions	Ø51xH1,5mm
Power (W)	3W
Housing	metal core, black-white
Radiation angle (°)	140° (warm white 110°), 10 or 45° lens on request
LED colour(s)	amber (590nm), red (625nm), green (530nm), blue (470nm), white (5000K) or warm white (3500K)
Packing	per piece, connection material not included
Weight (g)	20g
LED	Luxeon I
Luminous flux (lm)	amber (42lm/ led), red (44lm/ led), green (53lm/ led), blue (16lm/ led), white (45lm/ led) or warm white (20lm/ led)
To be used with	350mA LED Driver and connection material
Connection	1 solder connection point 1x3 Luxeon I
Number of LEDs	3
Facilities	heat sink on request
Current (mA)	350mA

Product code	Description
011639	MCPCB, 140°, 3xLuxeon I, amber [pc]
011645	MCPCB, 140°, 3xLuxeon I, red [pc]
011643	MCPCB, 140°, 3xLuxeon I, green [pc]
011641	MCPCB, 140°, 3xLuxeon I, blue [pc]
011649	MCPCB, 140°, 3xLuxeon I, white [pc]
011637	MCPCB, 110°, 3xLuxeon I, warm white [pc]

MCPCB6-140

6xLuxeon I



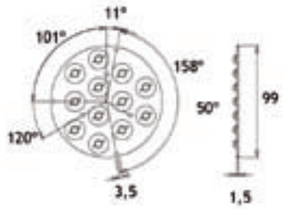


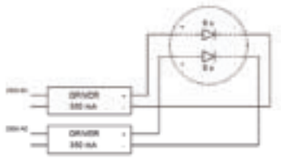
Dimensions	Ø71xH1,5mm
Power (W)	6W
Housing	metal core, black-white
Radiation angle (°)	140° (warm white 110°), 10 or 45° lens on request
LED colour(s)	amber (590nm), red (625nm), green (530nm), blue (470nm), white (5000K) or warm white (3500K)
Packing	per piece, connection material not included
Weight (g)	35g
LED	Luxeon I
Luminous flux (lm)	amber (42lm/ led), red (44lm/ led), green (53lm/ led), blue (16lm/ led), white (45lm/ led) or warm white (20lm/ led)
To be used with	350mA LED Driver and connection material
Connection	1x solder connection point 1x6 Luxeon I
Number of LEDs	6
Facilities	heat sink on request
Current (mA)	350mA

Product code	Description
011653	MCPCB, 140°, 6xLuxeon I, amber [pc]
011659	MCPCB, 140°, 6xLuxeon I, red [pc]
011657	MCPCB, 140°, 6xLuxeon I, green [pc]
011655	MCPCB, 140°, 6xLuxeon I, blue [pc]
011661	MCPCB, 140°, 6xLuxeon I, white [pc]
011651	MCPCB, 110°, 6xLuxeon I, warm white [pc]

MCPCB12-140

12xLuxeon I



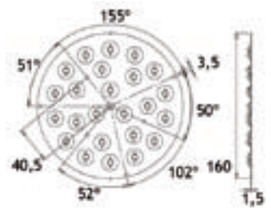


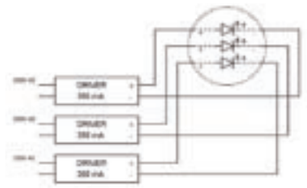
Dimensions	Ø99xH1.5mm
Power (W)	12W
Housing	metal core, black-white
Radiation angle (°)	140° (warm white 110°), 10 or 45°lens on request
LED colour(s)	amber (590nm), red (625nm), green (530nm), blue (470nm), white (5000K) or warm white (3500K)
Packing	per piece, connection material not included
Weight (g)	45g
LED	Luxeon I
Luminous flux (lm)	amber (42lm/ led), red (44lm/ led), green (53lm/ led), blue (16lm/ led), white (45lm/ led) or warm white (20lm/ led)
To be used with	350mA LED Driver and connection material
Connection	2 solder connection points for 2x6 Luxeon I
Number of LEDs	12
Facilities	heat sink on request
Current (mA)	350mA

Product code	Description
011611	MCPCB, 140°, 12xLuxeon I, amber [pc]
011617	MCPCB, 140°, 12xLuxeon I, red [pc]
011615	MCPCB, 140°, 12xLuxeon I, green [pc]
011613	MCPCB, 140°, 12xLuxeon I, blue [pc]
011619	MCPCB, 140°, 12xLuxeon I, white [pc]
011609	MCPCB, 110°, 12xLuxeon I, warm white [pc]

MCPCB24-140

24xLuxeon I





Dimensions	Ø160xH1,5mm
Power (W)	24W
Housing	metal core, black-white
Radiation angle (°)	140° (warm white 110°), 10 or 45° lens on request
LED colour(s)	amber (590nm), red (625nm), green (530nm), blue (470nm), white (5000K) or warm white (3500K)
Packing	per piece, connection material not included
Weight (g)	100g/ piece
LED	Luxeon I
Luminous flux (lm)	amber (42lm/ led), red (44lm/ led), green (53lm/ led), blue (16lm/ led), white (45lm/ led) or warm white (20lm/ led)
To be used with	350mA LED Driver and connection material
Connection	3x solder connection 3x8 Luxeon I
Number of LEDs	24
Facilities	heat sink on request
Current (mA)	350mA

Product code	Description
011627	MCPCB, 140°, 24xLuxeon I, amber [pc]
011633	MCPCB, 140°, 24xLuxeon I, red [pc]
011631	MCPCB, 140°, 24xLuxeon I, green [pc]
011629	MCPCB, 140°, 24xLuxeon I, blue [pc]
011635	MCPCB, 140°, 24xLuxeon I, white [pc]
011625	MCPCB, 110°, 12xLuxeon I, warm white [pc]

Product code	Description	Output current	Input voltage	Application
010861	LED Driver	350mA	230VAC	1-8xLuxeon I
010865	LED Driver	700mA	230VAC	1-12xLuxeon I/ 1-4xLuxeon III
010851	Cable Driver	350mA	12-34VAC/DC	1-7xLuxeon I
010847	Driver Rectangular	350mA	12-36VAC/DC	1-9xLuxeon I
010849	Driver Round	350mA	230VAC	1-6xLuxeon I
010859	Driver Rounc	350mA	12-36VAC/DC	1-9xLuxeon I
010853	Miki Driver	350mA	230VAC	1-6xLuxeon I
010855	Miki Driver	700mA	230VAC	1-2xLuxeon III
010867	Dimmer/Driver	350mA	12-36VAC/DC	1-9xLuxeon I

Connection
Note that you are working with an electrical device. Make sure the LED Driver is not connected to the 230V power supply when connecting the LED modules. This could severely damage the LED or cause a malfunction, shortening its lifetime
considerably!

LED Drivers

LED Drivers
The Luxeon I class of LED Modules & Spots need 350mA or 700mA output current. Several LED Drivers have been developedand they are protected against overload, short-circuit, overheating and over-voltage. The chart below shows an overview of the different classes of drives and applications.

www.triolight.com Creative Lighting Concepts

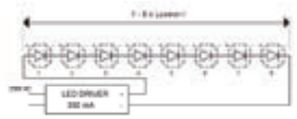
LED Driver 350mA

1-8xLuxeon I

Dimensions	L144xW45xH25mm
Housing	plastic
Packing	per piece
Weight (g)	200g
Application	1-8xLuxeon I (serial)
Output	34VDC
Colour	black
Efficiency (%)	80%
Protection	overload, short circuit, overheat and overvoltage
Input	230VAC
Current (mA)	350mA

Product code
010861

Description
LED Driver, 350mA, 230VAC [pc]



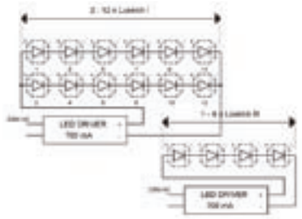
LED Driver 700mA

1-12x Luxeon I
1-4x Luxeon III

Dimensions	L144xB45xH25mm
Housing	plastic
Packing	per piece
Weight (g)	200g
Application	2 series of 1-6xLuxeon I (even numbers only) or 1 serie of 1-4x luxeon III
Output	25VDC
Colour	black
Efficiency (%)	80%
Protection	overload, short circuit, overheat and overvoltage
Input	230VAC
Current (mA)	700mA

Product code
010865

Description
LED Driver, 700mA, 230VAC [pc]



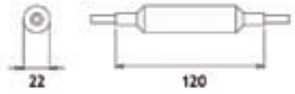
Cable Driver

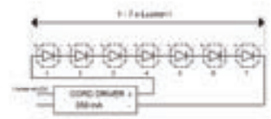
12-34VAC/DC
(1-7xLuxeon I)

Dimensions	L120xW22
Housing	plastic
Packing	per piece
Weight (g)	95g
Application	12VDC/ 12VAC 1-3xLuxeon I, 24VDC/ 23VAC 1-6xLuxeon I 34VDC/29VAC 1-7xLuxeon I
Output	350mA
Colour	black
Efficiency (%)	70%
Protection	overload, short circuit, overheat and overvoltage
Input	12-34VAC/DC
Cable dimensions	2xL30cm
Degree of protection (IP)	IP68

Product code
010851

Description
Cable Driver, 12-34VAC/DC, 1-7xLuxeon I [pc]





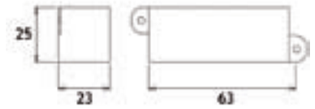
Driver rectangular

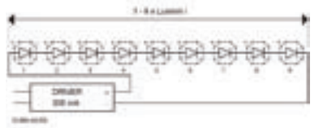
12-36VAC/DC
(1-9xLuxeon I)

Dimensions	L63xW25xH23mm
Housing	plastic
Packing	per piece
Weight (g)	63g
Application	12VDC/ 12VAC 1-2xLuxeon I, 18VDC/ 18VAC 1-4xLuxeon I 24VDC/ 23VAC 1-6Luxeon I, 36VDC/ 29VAC 1-9xLuxeon I
Output	350mA
Colour	black
Efficiency (%)	70%
Protection	overload, short circuit, overheat and overvoltage
Input	12-36 VAC/ DC
Degree of protection (IP)	IP68

Product code
010847

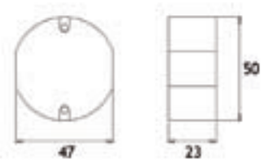
Description
Driver Rectangular, 12-36VAC/DC, 1-9xLuxeon I [pc]

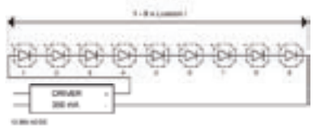




Driver round

12-36VAC/DC

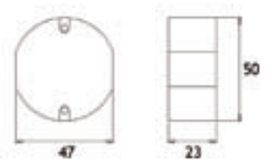


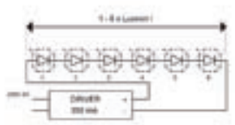


Dimensions	L47xW50xH23mm
Housing	plastic
Packing	per piece
Weight (g)	63g
Application	12VDC/ 12VAC 1-2xLuxeon I, 18VDC/ 18VAC 1-4xLuxeon I 24VDC/ 23VAC 1-6Luxeon I, 36VDC/ 29VAC 1-9xLuxeon I
Output	350mA
Colour	black
Efficiency (%)	70%
Protection	overload, short circuit, overheat and overvoltage
Degree of protection (IP)	IP65
Input	12-36VAC/DC
Product code	010849
Description	Driver Round, 12-36VAC/DC, 1-9xLuxeon I [pc]

Driver round

230VAC (1-6xLuxeon I)

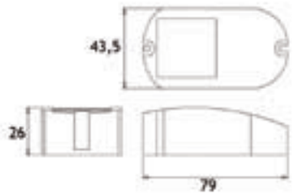


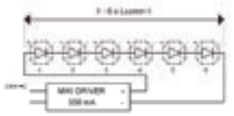


Dimensions	L47xB50xH23mm
Housing	plastic
Packing	per piece
Weight (g)	80g
Application	1-6xLuxeon I (serial)
Output	350mA
Colour	black
Efficiency (%)	70%
Protection	overload, short circuit, overheat and overvoltage
Degree of protection (IP)	IP65
Input	230VAC
Product code	010859
Description	Driver Round, 230VAC, 1-6xLuxeon I [pc]

Miki Driver

350mA (1-6xLuxeon I)

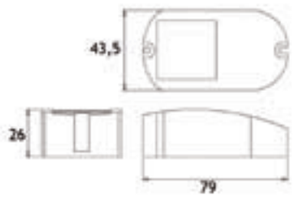


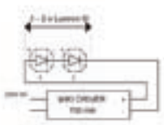


Dimensions	L79xW43.5xH26mm
Housing	Polycarbonate
Packing	per piece
Weight (g)	65g
Application	350mA/ 230VAC 1-6xLuxeon I
Output	350mA
Colour	white
Efficiency (%)	75%
Protection	overload, short circuit, overheat and overvoltage
Input	230VAC
Power (W)	6W
Product code	010853
Description	Miki Driver, 350mA/230VAC, 1-6xLuxeon I [pc]

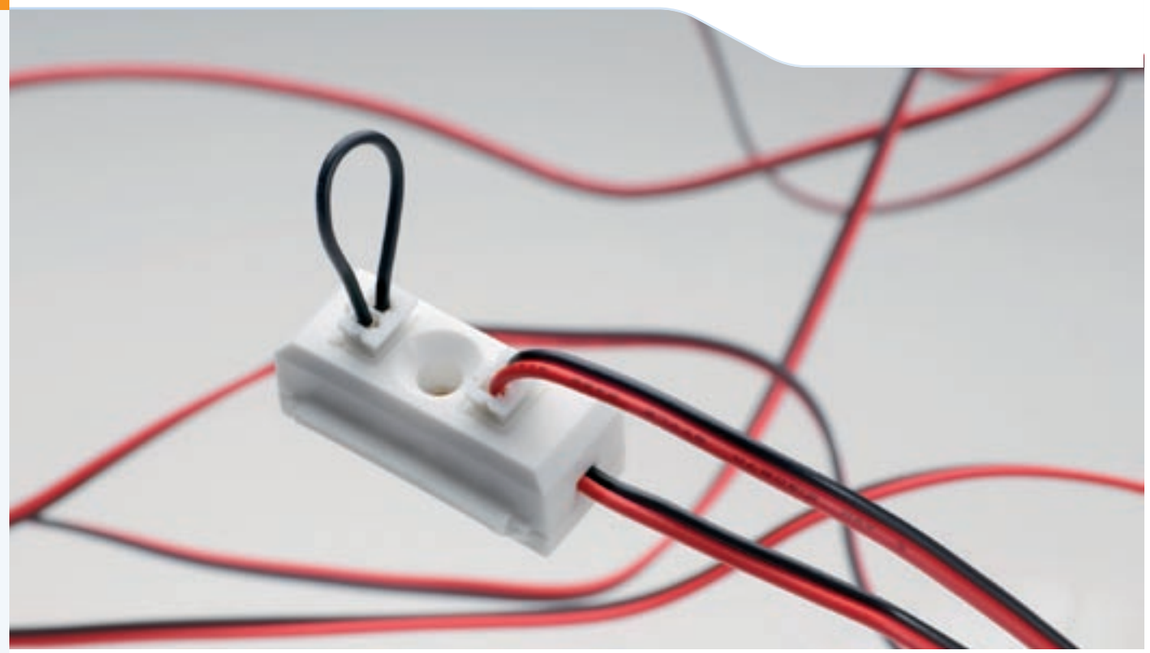
Miki Driver

700mA (1-2xLuxeon III)





Dimensions	L79xW44,5xH26mm
Housing	Polycarbonate
Packing	per piece
Weight (g)	65g
Application	700mA/ 230VAC 1-2xLuxeon III
Output	700mA
Colour	white
Efficiency (%)	75%
Protection	overload, short circuit, overheat and overvoltage
Input	230VAC
Power (W)	6W
Product code	010855
Description	Miki Driver, 700mA/230VAC, 1-2xLuxeon III [pc]



LED Connection materials

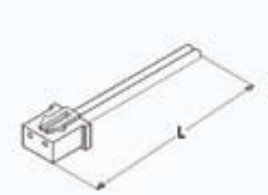
Nearly all Luxeon I and III modules and spotlights come with a 250mm 0.5 teflon cable without connector. Especially for this series of products we have plug & play connection articles available to create a serial connection. The connection cable provides the led-module or spotlight with a connector. The so-called joint clips are used to connect the cables. The connecting block series switch connects the spotlights. The endpiece series switch closes the series.

TRIO light

LED Connection materials

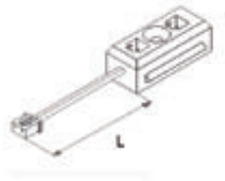
Connection cable

Packing	per piece, per 25, per 100
Weight (g)	7.5g
Application	The connection cable with connector is attached to the LED module
Length cord (m)	1m
Material	polymer
To be used with	joint clip
Colour	white
Product code	Description
010815	Connection cable 1m [pc]



Connecting system

Packing	piece, per 25, per 100
Weight (g)	13,5g
Application	The connection system is used to connect the LED Modules in serial
Length cord (m)	1m, 2m or 3m
Material	polymer
Colour	white
Product code	Description
010827	Connecting system 1m [pc]
010829	Connecting system 2m [pc]
010831	Connecting system 3m [pc]



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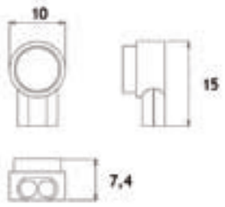
Serial connector

Packing	piece, per 25, per 100
Weight (g)	0,1g
Application	The serial connector is used to close the serial connection
Material	polymer
Colour	white
Product code	Description
010821	Serial connector [pc]

Joint clip



Packing	per 25, per 100
Weight (g)	71g/ 100
Application	The joint clip is used to connect cables. 3M Scotchlok butt connector
Colour	white/ orange
Material	plastic, filled with silicon to protect against moisture and corrosion
To be used with	cable 0.4-0.9mm
Product code	Description
011809	Joint clip [per 25]

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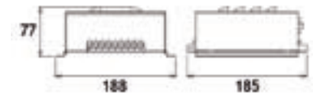
current controlled

RGB/Dim Controller

Note	RGB and/or dimfunctions
Dimensions	L185xW160xH70mm
Input	7.5V-36V
Control	by means DMX512 or 2 standard programmes
Output	350mA or 700mA per output (3 outputs)
Housing	aluminium
Connection	DMX IN, DMX UIT, OUT 1, 2, 3
Weight (g)	860g
Packing	per piece
To be used with	Luxeon I and Luxeon III LED modules en spots, 24VDC power supply
Dimmable	488Hz PWM, 15-bit resolution
Degree of protection (IP)	IP20

Product code	Description
010809	RGB/Dim Controller (current controlled) [pc]



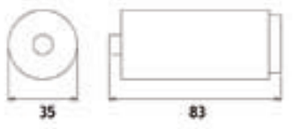
LED Controls

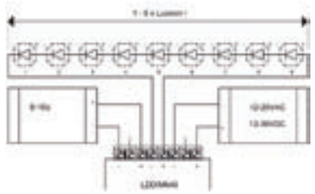
Tri-O-Light has developed a current controlled RGB/Dim Controller. This advanced RGB/Dim Controller is suitable only for Luxeon I (350mA) or III (700mA input current) leds. The RGB controller has 3 controlled exits that can be charged with a maximum current of 350mA or 700mA each. The RGB/Dim Controller is standard pre-set on 350mA. Tri-O-Light pre-sets the RGB/Dim Controller on 700mA on request. The paragraph ‘connection schemes’ shows an overview of the connection possibilities of the current controlled RGB/Dim Controller.

Control
The exits of the RGB/Dim Controller are controlled with a DMX512 panel or a very easy to use wall panel with remote control. The RGB/Dim Controller contains two standard demo programmes, which Tri-O-Light can pre-set at your request. When the dimmer/driver is used, the leds need to be controlled using an analogue 0~10V signal.

Dimmer/Driver

12-36VAC/DC (1-9xLuxeon I)





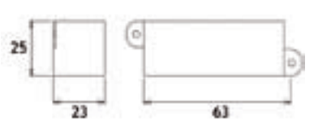
Dimensions	L83xW35mm
Input	12-36VAC/DC
Control	analogue 0~10V signal with external potentio meter (not included)
Housing	aluminium
Weight (g)	110g
Packing	per piece
To be used with	all types of Luxeon I and III LEDs
Degree of protection (IP)	IP60
Application	12VDC/12VAC 1-2xLuxeon I, 18VDC/18VAC 1-4xLuxeon I, 24VDC/23VAC 1-6xLuxeon I, 36VDC/29VAC 1-9xLuxeon I
Protection	overload, short circuit, overheat
Efficiency (%)	85%
Output	350mA

Product code
010867

Description
Dimmer/Driver 12-36VAC/DC, 1-9xLuxeon I [pc]

Twinkle Controller

Twinkle effect



Dimensions	L63xW25xH23mm
Housing	plastic
Packing	per piece
Weight (g)	63g
Application	max. 3xLuxeon I
Output	350mA
Colour	black
Efficiency (%)	80%
Protection	overload, short-circuit, overheating and overvoltage
Input	24VDC
Degree of protection (IP)	IP65
Description	dims the leds randomly from 10% to 100% light intensity
Ambient temperature (°C)	-20° ~ 60°C

Product code
010911

Description
Twinkle Controller, 24VDC/350mA [pc]

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Wiring diagrams

RGB/Dim Controller set on 350mA (standard)

Wiring diagram 1
3 series of 1-8xLuxeon I (1W); 1 series per output.

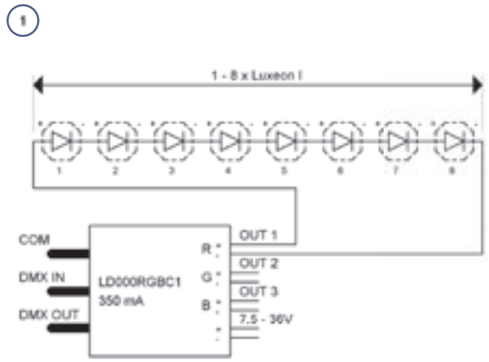
Wiring diagram 2
1 series of 1-8xMCPCB3-140RGB (3W); red, blue, green, each colour on one output.

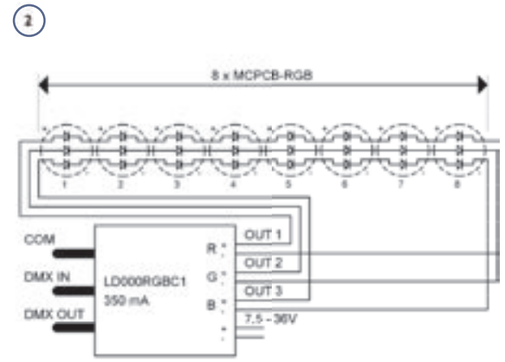
RGB/Dim Controller set on 700mA (non - standard)

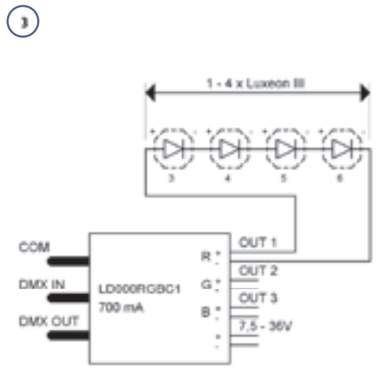
Wiring diagram 3
3 series of 1-4xLuxeon III (3W);1 series per output. Only connect even numbers; i.e. 2 or 4 LEDs per series.

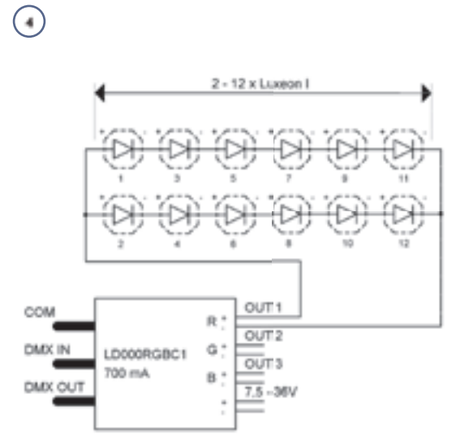
Wiring diagram 4
3 parallel series of 2-12xLuxeon I (1W); 1 series per output. Only connect even numbers; i.e. 2, 4, 6, 8, 10 or 12 LEDs per series.

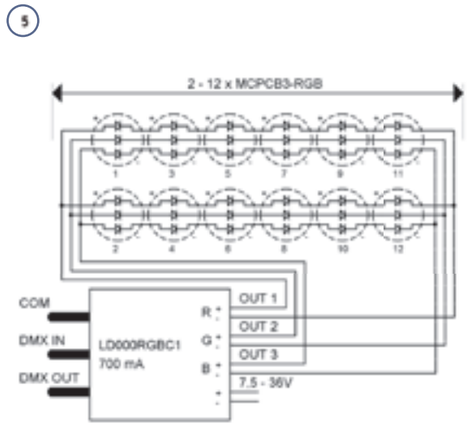
Wiring diagram 5
1 series of 2-12xMCPCB3-140RGB (3W); red, blue, green, each colour on one output.

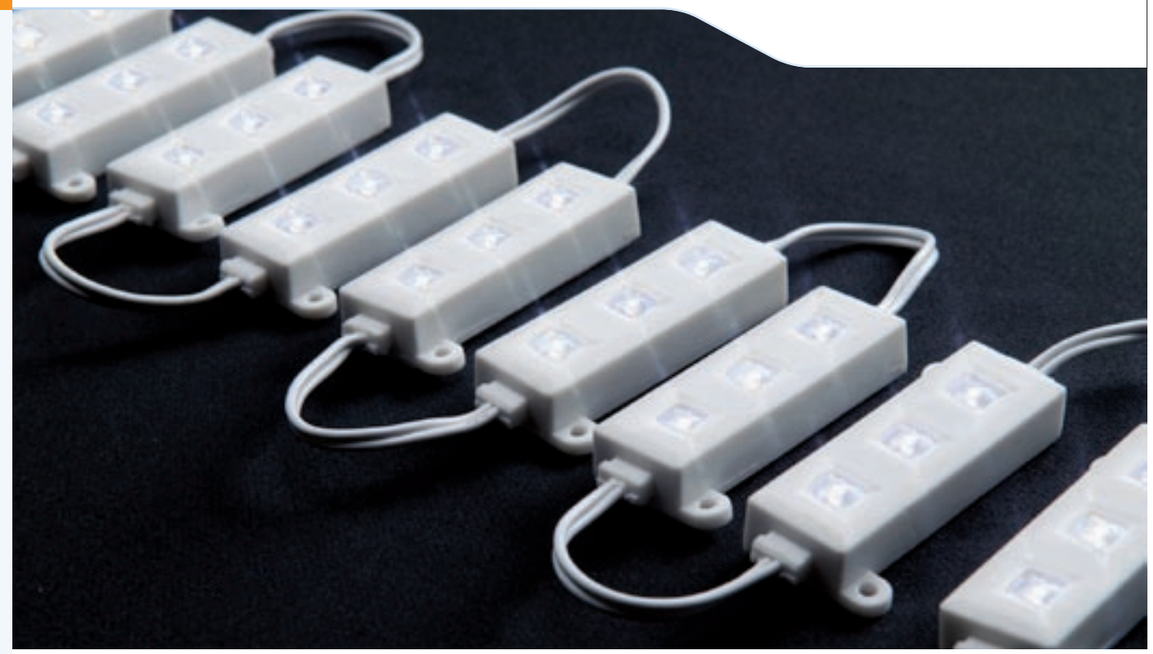












Chain LED System

Chain LED System
The Chain LED System is a Luxeon led fixture which is ideal for advertising lighting and is suitable for various architectural applications. The Chain LED System provides outstanding brightness and light output.

Features
-the best choice to substitute neon
-very user- and installation friendly
-high power Luxeon leds
-stylish appearance
-balanced light diffusion
-Several bright colours available: red, amber, green, blue and white
-IP65
-Solid and shockproof

Benefits
-Maintenance free
-Long life time
-Non-UV
-Low running cost
-Low voltage and safe in use
-Adapts to moisture and wet environment

Applications
-Advertising boards
-Frame lighting
-Indirect lighting in outdoor application
-Stair lighting
-Shopwindow lighting
-Etc.

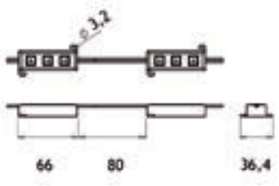
Mounting
The space between the Chain LED System and the acrylic needs to be 80mm for optimum diffusion of the light. The space between each module also needs to be 80mm. Each unit can be attached using screws or double-sided tape included in the kit.Connection

Use the included waterproof joint clips to join the cables and the included transformer to supply the Chain LED System with the right voltage (15VDC). The maximum cable length between the led-system and the power supply is 20m, except for white, where 10m is applicable

Warning
Note that you are working with an electrical device. Make sure the device is not connected to the 230V power supply when connecting it. This could severely damage the led or cause a malfunction, shortening its lifetime considerably!

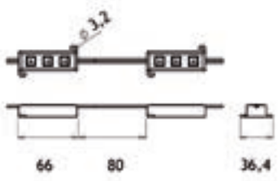
Chain LED System comes as a complete kit, including IP66 transformer and connection- and fitting materials.

Chain LED System — *Amber*



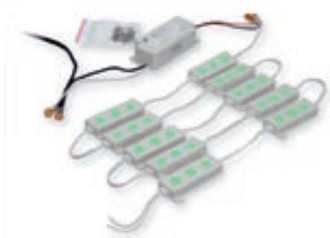
LED	Luxeon Superflux
LED colour(s)	Amber
Dimensions	L66xW36.4xH13.1mm (module)
Wavelength (nm)	594nm
Degree of protection (IP)	IP65
Power (W)	0.2W/LED, 6W/chain
Input	15VDC
Number of LEDs	30 LEDs (chain of 10 modules of 3 LEDs)
Length (m)	174cm (total)
Housing	Thermoplastic rubber (TPR)
Working temperature (°C)	-40°C ~ + 50°C
Packing	Per set (box = L17xW17xH5.5cm)
Weight (g)	600g
Radiation angle (°)	70°
Cord	0,5mm², 2xwhite PVC, both wires can be used as + and -
Composition	1x chain of 10 modules of 3 LEDs, 1x IP66 transformator 15VDC of 20W, 3M waterproof joint clips, screws, excl. connection cable (230VAC)
Application	Signage (3D boxletters), cove- and indirect lighting
Mounting	with screws included, or with double-sided 3M tape on the backside
Luminous flux (lm)	96lm
Product code	Description
012061	Chain LED System set, amber [set]

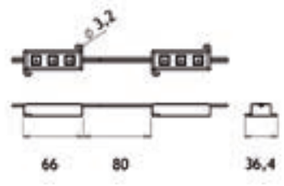
Chain LED System — *Red*



LED	Luxeon Superflux
LED colour(s)	Red
Dimensions	L66xW36.4xH13.1mm (module)
Wavelength (nm)	629nm
Degree of protection (IP)	IP65
Power (W)	0.2W/LED, 6W/chain
Input	15VDC
Number of LEDs	30 LEDs (chain of 10 modules of 3 LEDs)
Length (m)	174cm (total)
Housing	Thermoplastic rubber (TPR)
Working temperature (°C)	-40°C ~ + 50°C
Packing	Per set (box = L17xW17xH5.5cm)
Weight (g)	600g
Radiation angle (°)	70°
Cord	0,5mm², 2xwhite PVC, both wires can be used as + and -
Composition	1x chain of 10 modules of 3 LEDs, 1x IP66 transformator 15VDC of 20W, 3M waterproof joint clips, screws, excl. connection cable (230VAC)
Application	Signage (3D boxletters), cove- and indirect lighting
Mounting	with screws included, or with double-sided 3M tape on the backside
Luminous flux (lm)	96lm
Product code	Description
012063	Chain LED System set, red [set]

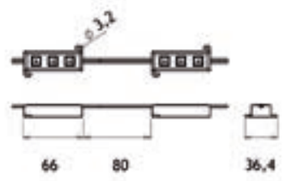
Chain LED System — *Green*





LED	Luxeon Superflux
LED colour(s)	Green
Dimensions	L66xW36.4xH13.1mm (module)
Wavelength (nm)	525nm
Degree of protection (IP)	IP65
Power (W)	0.2W/LED, 6W/chain
Input	15VDC
Number of LEDs	30 LEDs (chain of 10 modules of 3 LEDs)
Length (m)	174cm (total)
Housing	Thermoplastic rubber (TPR)
Working temperature (°C)	-40°C ~ + 50°C
Packing	Per set (box = L17xW17xH5.5cm)
Weight (g)	600g
Radiation angle (°)	90°
Cord	0,5mm², 2xwhite PVC, both wires can be used as + and -
Composition	1x chain of 10 modules of 3 LEDs, 1x IP66 transformator 15VDC of 20W, 3M waterproof joint clips, screws, excl. connection cable (230VAC)
Application	Signage (3D boxletters), cove- and indirect lighting
Mounting	with screws included, or with double-sided 3M tape on the backside
Luminous flux (lm)	90lm
Product code	Description
012065	Chain LED System set, green [set]

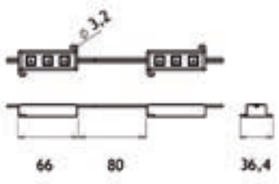
Chain LED System — *Blue*



LED	Luxeon Superflux
LED colour(s)	Blue
Dimensions	L66xW36.4xH13.1mm (module)
Wavelength (nm)	470nm
Degree of protection (IP)	IP65
Power (W)	0.2W/LED, 6W/chain
Input	15VDC
Number of LEDs	30 LEDs (chain of 10 modules of 3 LEDs)
Length (m)	174cm (total)
Housing	Thermoplastic rubber (TPR)
Working temperature (°C)	-40°C ~ + 50°C
Packing	Per set (box = L17xW17xH5.5cm)
Weight (g)	600g
Radiation angle (°)	90°
Cord	20AWG, 2xwhite PVC, both wires can be used as + and -
Composition	1x chain of 10 modules of 3 LEDs, 1x IP66 transformator 15VDC of 20W, 3M waterproof joint clips, screws, excl. connection cable (230VAC)
Application	Signage (3D boxletters), cove- and indirect lighting
Mounting	with screws included, or with double-sided 3M tape on the backside
Luminous flux (lm)	30lm
Product code	Description
012067	Chain LED System set, blue [set]

Chain LED System

White



LED	Luxeon Superflux
LED colour(s)	White
Dimensions	L66xW36.4xH13.1mm (module)
Degree of protection (IP)	IP65
Power (W)	0.1W/LED, 3W/chain
Input	15VDC
Number of LEDs	30 LEDs (chain of 10 modules of 3 LEDs)
Length (m)	174cm (total)
Housing	Thermoplastic rubber (TPR)
Working temperature (°C)	-40°C ~ + 50°C
Packing	Per set (box = L17xW17xH5.5cm)
Weight (g)	600g
Radiation angle (°)	90°
Cord	0,5mm², 2xwhite PVC, both wires can be used as + and -
Composition	1x chain of 10 modules of 3 LEDs, 1x IP66 transformator 15VDC of 20W, 3M waterproof joint clips, screws, excl. connection cable (230VAC)
Application	Signage (3D boxletters), cove- and indirect lighting
Mounting	with screws included, or with double-sided 3M tape on the backside

Product code	Description
012069	Chain LED System set, white [set]

Chain LED System

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LED Cabinet Light

The Cabinet Light, with integrated white or warmwhite highpower leds (Luxeon I), provides outstanding brightness and light output. This unique fixture is available in 3 lengths: 300mm (3 leds), 600mm (6 leds), 900mm (9 leds). The frosted acrylic cover distributes the light evenly, resulting in a beautiful light effect. The fixture also includes optimum heat control and mounting clips for easy installation.

Application
The Cabinet Light is a very stylish and flexible solution for cabinet lighting, showcase and desk lighting, indirect ceiling lighting, kitchen, bathroom and office lighting.

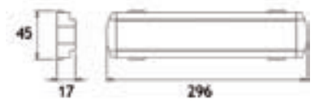
Accessories
The Cabinet Light comes standard with connection cable and is easily connectable.
The 230VAC/24VDC power supply and extension cable are available separately.

3xLuxeon I

Cabinet Light 300mm

LED	Luxeon I
Number of LEDs	3
Dimensions	L296xW45xH17mm
Radiation angle (°)	120°
Power (W)	5.5W
Degree of protection (IP)	IP20
Housing	aluminium
Cover	frosted acrylic cover
Mounting	with clips included
Packing	per piece
To be used with	extension cord and power supply for Cabinet Light
Weight (g)	200g
LED colour(s)	white (5000K), warm white (3500K)
Luminous flux (lm)	white (45lm/led), warm white (20lm/led)
Voltage (V)	24VDC

Product code	Description
010545	Cabinet Light, 300mm, 24V, 3W, white [pc]
010547	Cabinet Light, 300mm, 24V, 3W, warm white [pc]

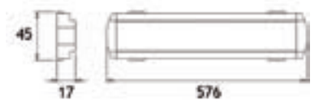


6xLuxeon I

Cabinet Light 600mm

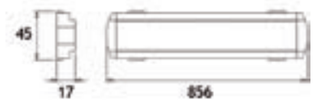
LED	Luxeon I
Number of LEDs	6
Dimensions	L576xW45xH17mm
Radiation angle (°)	120°
Power (W)	13.5W
Degree of protection (IP)	IP20
Housing	aluminium
Cover	frosted acrylic cover
Mounting	with clips included
Packing	per piece
To be used with	extension cord and power supply for Cabinet Light
Weight (g)	380g
LED colour(s)	white (5500K), warm white (3500K)
Luminous flux (lm)	white (45lm/led), warm white (20lm/led)
Voltage (V)	24VDC

Product code	Description
010553	Cabinet Light, 600mm, 24V, 6W, white [pc]
010557	Cabinet Light, 600mm, 24V, 6W, warm white [pc]



Cabinet Light 900mm

9xLuxeon I



LED	Luxeon I
Number of LEDs	9
Dimensions	L856xW45xH17mm
Radiation angle (°)	120°
Power (W)	16.5W
Degree of protection (IP)	IP20
Housing	aluminium
Cover	frosted acrylic cover
Mounting	with clips included
Packing	per piece
To be used with	extension cord and power supply for Cabinet Light
Weight (g)	540g
LED colour(s)	white (5000K), warm white (3500K)
Luminous flux (lm)	white (45lm/led), warm white (20lm/led)
Voltage (V)	24VDC

Product code
010561
010565

Description
Cabinet Light, 900mm, 24V, 9W, white [pc]
Cabinet Light, 900mm, 24V, 9W, warm white [pc]

Extension cord

Cabinet Light

Cord	black
Length cord (m)	650mm
Connection	2x Ø5.3mm Jackplug, black
Packing	per piece
Weight (g)	23.5g

Product code
020071

Description
Extension cord for Cabinet Light, 60cm, Jackplug 5.3mm [pc]

Power supply

Cabinet Light

Input	230VAC
Output	24VDC
Current (mA)	2.5A
Power (W)	60W
Dimensions	L115xB51xH32.5mm
Protection	overload, short circuit, overheat and overvoltage
Material	plastic
Cord	flat, PVC, 2x0.75mm²
Length cord (m)	2m with Ø5.3mm Jackplug
Colour	black
Packing	per piece
Weight (g)	240g

Product code
010541

Description
Power supply for Cabinet Light, 24VDC, 60W [pc]

LED Cabinet Light

TRIO light

Project illustration

LED Cabinet Light

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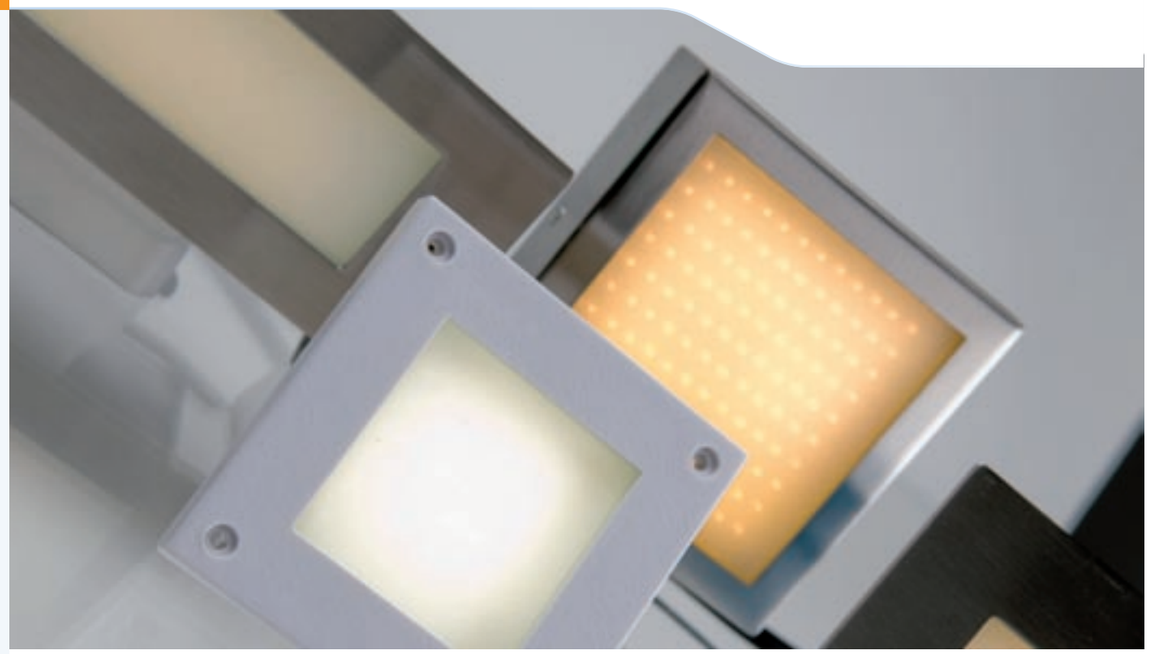


Wall spotlights

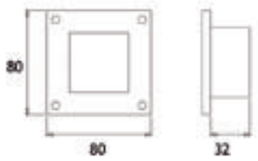
These wall spotlights are suitable as decorative and orientation lighting in various wall applications. The fixtures are reliable and durable because of the aluminium housing in combination with stainless steel. The fixtures are waterproof (IP67/68) and therefore ideal for outdoor applications. These wall spotlights are suitable for installations where mounting a transformer is a problem. The transformer is integrated so the spotlight can be connected directly to 230VAC. The leds have a soft warmwhite colour in combination with diffuse glass.

TRIO light

square — Wall spot

Dimensions	L80xW80xH41mm
Power (W)	4.4W
Degree of protection (IP)	IP68
Voltage (V)	230VAC
Housing	white Polymer
Number of LEDs	36
Trim	diffuse glass
Radiation angle (°)	90°
LED colour(s)	warm white
Packing	per piece
Weight (g)	140g

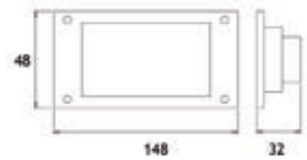
Product code	Description
011821	Wall spot square, diffuse, 230VAC, warm white [pc]



rectangular — Wall spot

Dimensions	L170xW48xH41mm
Power (W)	4.4W
Degree of protection (IP)	IP68
Voltage (V)	230VAC
Housing	white polymer
Number of LEDs	36
Trim	diffuse glass
Radiation angle (°)	90°
LED colour(s)	warm white
Packing	per piece
Weight (g)	160g

Product code	Description
011779	Wall spot rectangular, diffuse, 230VAC, warm white [pc]



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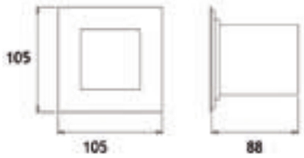
Wall spot



	105x105
Dimensions	L105xW105xH88mm
Power (W)	5W
Degree of protection (IP)	IP67
Voltage (V)	230VAC (built-in trafo)
Housing	aluminium
Number of LEDs	60
Trim	stainless steel, diffuse glass
Radiation angle (°)	90°
LED colour(s)	warm white
Packing	per piece
Weight (g)	420g
Back box	L96xW96xH83
Colour temperature (K)	3000K
Product code	011827
Description	Wall spot 105x105, warm white [pc]

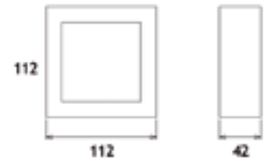
Wall spot

	170x68
Dimensions	L170xW68xH88mm
Power (W)	5W
Degree of protection (IP)	IP67
Voltage (V)	230VAC (built- in trafo)
Housing	aluminium
Number of LEDs	60
Trim	stainless steel, diffuse glass
Radiation angle (°)	90°
LED colour(s)	warm white
Packing	per piece
Weight (g)	420g
Back box	L158xW55xH84
Colour temperature (K)	3000K
Product code	011781
Description	Wall spot 170x68, warm white [pc]

TRIO light
3.9.1
Wall spotlights

Wall spot

	112x112
Dimensions	L112xW112xH42mm
Power (W)	10W
Degree of protection (IP)	IP67
Voltage (V)	230VAC (built- in trafo)
Housing	aluminium
Number of LEDs	120
Trim	stainless steel, diffuse plastic
Radiation angle (°)	90°
LED colour(s)	warm white
Packing	per piece
Weight (g)	420g
Colour temperature (K)	3000K
Product code	011825
Description	Wall spot 112x112, warm white [pc]



LED Underwater spotlights

These LED Underwater spotlights are especially suitable for cosy lighting in several underwater and outside applications, such as fountains and swimming pools, ponds, garden lighting and water features. They each contain 9 Luxeon I leds which together offer a powerful spotlight like light bundle, lighting up objects perfectly.

The fixtures are reliable and durable using a heavy brass casing and 8mm toughened glass. The fixtures are 100% waterproof (IP68) and stainless. The spotlights are connectable. You can use Tri-O-Light Y-joints to make waterproof connections. The fixtures must be used with a 12VDC power supply, installed in a dry place.

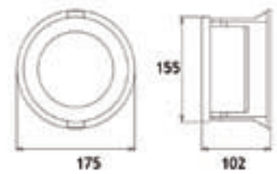
The standard underwater spotlights are available with different radiation angles, sorts of glass (clear/diffuse) and the led-colours red, amber, green, blue, white and warmwhite. It is also available in RGB with a standard RGB programme which neatly and calmly changes the colours.

We also have available an advanced RGB underwater spotlight, enabling you to mix fascinating colours. Using several light programmes and fixed colour adjustments you can create the right atmosphere. This underwater spotlight is controlled with the Tri-O-Light current controlled RGB Controller through a DMX512 panel or a very easy to use wall panel with remote control. This product is available with both clear and diffuse glass.

9xLuxeon I

Underwater spot diffuse

Dimensions	Ø175xH102mm
Power (W)	9W
Degree of protection (IP)	IP68
Housing	Brass
Radiation angle (°)	140° (warm white 110°)
LED colour(s)	amber (590nm), red (625nm), green (530nm), blue (470nm), white (5000K), warm white (3500K) or RGB (fixed programme)
Packing	per piece, connection material not included
Weight (g)	3330g
LED	9x Luxeon I
Input	12VDC
Cord	20cm, brown +, blue -
Luminous flux (lm)	amber (42lm), red (44lm), green (53lm), blue (16lm), white (45lm) or warm white (20lm)
To be used with	12VDC supply
Number of LEDs	9

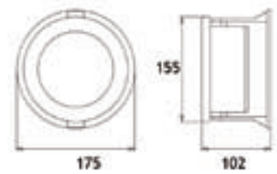


Product code	Description
012015	Underwater spot, diffuse, 9xLuxeon I, amber [pc]
012021	Underwater spot, diffuse, 9xLuxeon I, red [pc]
012019	Underwater spot, diffuse, 9xLuxeon I, green [pc]
012017	Underwater spot, diffuse, 9xLuxeon I, blue [pc]
012025	Underwater spot, diffuse, 9xLuxeon I, white [pc]
012013	Underwater spot, diffuse, 9xLuxeon I, warm white [pc]
012023	Underwater spot, diffuse, 9xLuxeon I, RGB [pc]

9xLuxeon I

Underwater spot clear

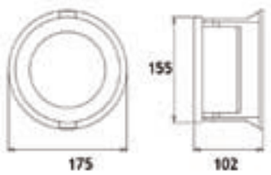
Dimensions	Ø175xH102mm
Power (W)	9W
Degree of protection (IP)	IP68
Housing	Brass
Radiation angle (°)	45° lens
LED colour(s)	amber (590nm), red (625nm), green (530nm), blue (470nm), white (5000K) warm white (3500K) or RGB (fixed programme)
Packing	per piece, connection material not included
Weight (g)	3330g
LED	9xLuxeon I
Input	12VDC
Cord	20cm, brown +, blue -
Luminous flux (lm)	amber (42lm), red (44lm), green (53lm), blue (16lm), white (45lm) or warm white (20lm)
To be used with	12VDC power supply
Number of LEDs	9



Product code	Description
012029	Underwater spot, clear, 9xLuxeon I, amber [pc]
012033	Underwater spot, clear, 9xLuxeon I, red [pc]
012031	Underwater spot, clear, 9xLuxeon I, green [pc]
012045	Underwater spot, clear, 9xLuxeon I, blue [pc]
012041	Underwater spot, clear, 9xLuxeon I, white [pc]
012043	Underwater spot, clear, 9xLuxeon I, warm white [pc]
012035	Underwater spot, clear, 9xLuxeon I, RGB [pc]

Underwater spot RGB diffuse

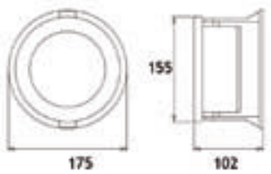
9xLuxeon I



Dimensions	Ø175xH102mm
Power (W)	9W
Degree of protection (IP)	IP68
Housing	Brass
Radiation angle (°)	140° lens RGB
LED colour(s)	RGB, 3xred (625nm), 3xgreen (530nm), 3xblue (470nm)
Packing	per piece, connection material not included
Weight (g)	3330g
LED	9xLuxeon I
Cord	20m, 6x0,5mm²
To be used with	RGB/Dim Controller current controlled, 24VDC power supply, connection joints
Number of LEDs	9
Current (mA)	350mA
Trim	8mm tempered glass, diffuse
Product code	Description
012039	Underwater spot, diffuse, 9xLuxeon I, RGB (DMX) [pc]

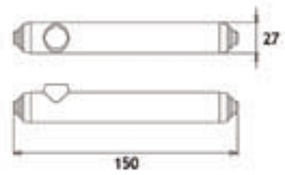
Underwater spot RGB clear

9xLuxeon I



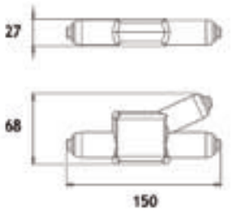
Dimensions	Ø175xH102mm
Power (W)	9W
Degree of protection (IP)	IP68
Housing	Brass
Radiation angle (°)	45° lens RGB
LED colour(s)	RGB, 3xred (625nm), 3xgreen (530nm), 3xblue (470nm)
Packing	per piece, connection material not included
Weight (g)	3330g
LED	9xLuxeon I
Cord	20m, 6x0,5mm²
To be used with	RGB/Dim Controller current controlled, 24VDC power supply, connection joints
Number of LEDs	9
Current (mA)	350mA
Trim	8mm tempered glass, clear
Product code	Description
012037	Underwater spot, clear, 9xLuxeon I, RGB (DMX) [pc]

Straight joint



Dimensions	Ø27xL150mm
Weight (g)	240g
Composition	cast joint with transparent sealf sealing moulds, cast resin and necessities
Packing	per piece
Cord	Ø7-16mm
Application	indoor, outdoor, underground, under water
Product code	Description
010795	Straight joint 7-16mm [pc]

Y-joint



Dimensions	L150xW68xH45mm
Weight (g)	380g
Composition	cast joint with transparent sealf sealing moulds, cast resin and necessities
Packing	per piece
Cord	Ø7-18mm
Application	indoor, outdoor, underground, under water
Product code	Description
020265	Y-joint 7-18mm [pc]