

# L E E D



# CATALOGUE

ET LUMIERE

# **ET LUMIERE** THE LED CATALOGUE

INTRODUCTION TO LED LIGHTING



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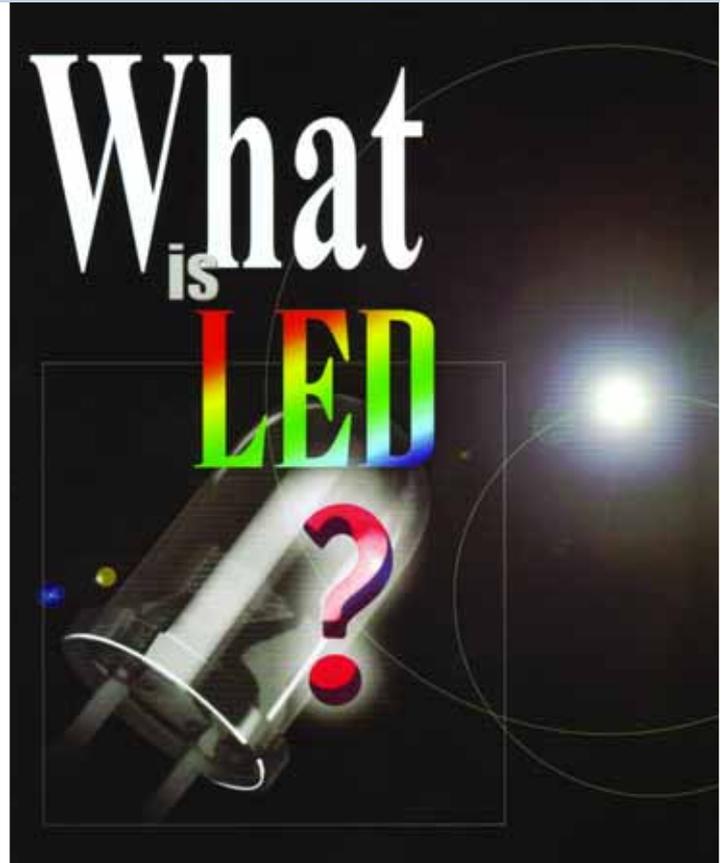
**WHAT ARE LEDS?**

LED stands for Light Emitting Diode, which is a semiconductor device that emits visible light when an electric current passes through it.

Light is not generated by heating an incandescent coil (incandescent and halogen bulbs) or by gas discharges (fluorescent lamps), but it is an electronic effect in the semiconductor.

A LED provides the light in a very narrow spectrum, that is only a small part of the total light radiation available. This is why each LED has its own specific colour.

A different process deals with the creation of white LEDs. There are two methods of manufacture, either using several LED chips in different colours (red, green and blue) combined in a single case so that the different colours are mixed up and give white light, or using blue LEDs which have an internal luminescent layer whose task is to convert blue light into different colours. Thus all spectrals are produced and this is the basis for white light.

**WHAT ARE THE BENEFITS OF USING LED LIGHTING?**

The benefits of LEDs compared with incandescent and fluorescent illuminating devices, include:

Low power requirement

High efficiency

Long life

No heat

Upto 20 metres distance between LED and Driver

# components

cabinet - bookcase - emergency lighting - feature lights - night lights - nightclub - cinema

open / bubble 6

lens / clip 8

ropelight 10

neon flex 12

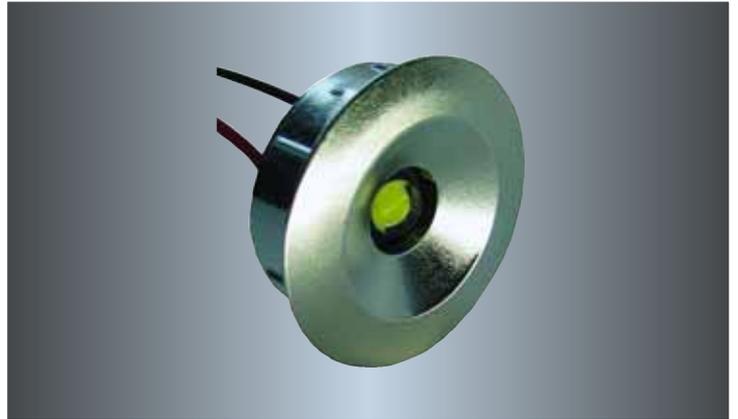
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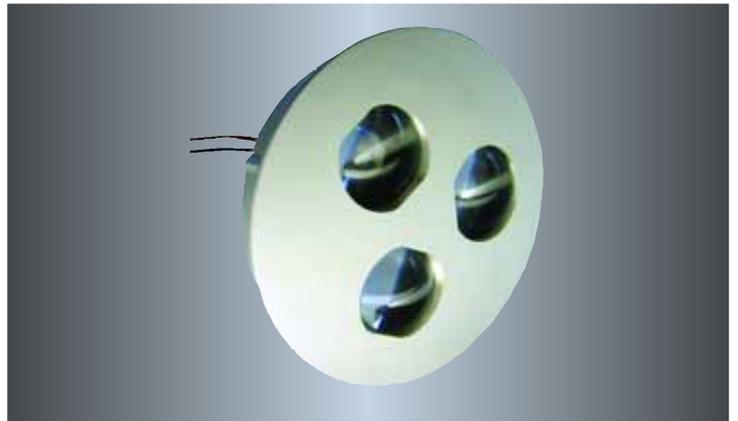
**COMPONENT RANGE**

The mini spot LED is a versatile unit. It can be used separately or together with a light fitting. It has a 25mm cut out. It has a high power 1 Watt LED.

This LED has a silver reflector that is available with no lens which produces a 110° angle of light or with a lens that produces a 45° angle of light.



DIMENSIONS	Diameter 30mm Height 10mm
CUT-OUT	25mm
OUTPUT	1 Watt
VOLTAGE	12V DC
PART No.	LED OPEN1 (No lens, 110°) BLUE LED OPEN1 (No lens, 110°) GREEN LED OPEN1 (No lens, 110°) RED LED OPEN1 (No lens, 110°) WHITE LED OPEN1 (No lens, 110°) YELLOW



DIMENSIONS	Diameter 30mm Height 15mm
CUT-OUT	25mm
OUTPUT	1 Watt
VOLTAGE	12V DC
PART No.	LED BUBBLE1 (45° lens) BLUE LED BUBBLE1 (45° lens) GREEN LED BUBBLE1 (45° lens) RED LED BUBBLE1 (45° lens) WARM WHITE LED BUBBLE1 (45° lens) BRIGHT WHITE LED BUBBLE1 (45° lens) YELLOW

Also available, a triple LED unit.

DIMENSIONS	Diameter 56mm Height 13mm
CUT-OUT	50mm
OUTPUT	4.5 Watts
VOLTAGE	12V DC
PART No.	LED BUBBLE3 (45° lens x 3) WHITE LED x 3

**COMPONENT LED DRIVERS**

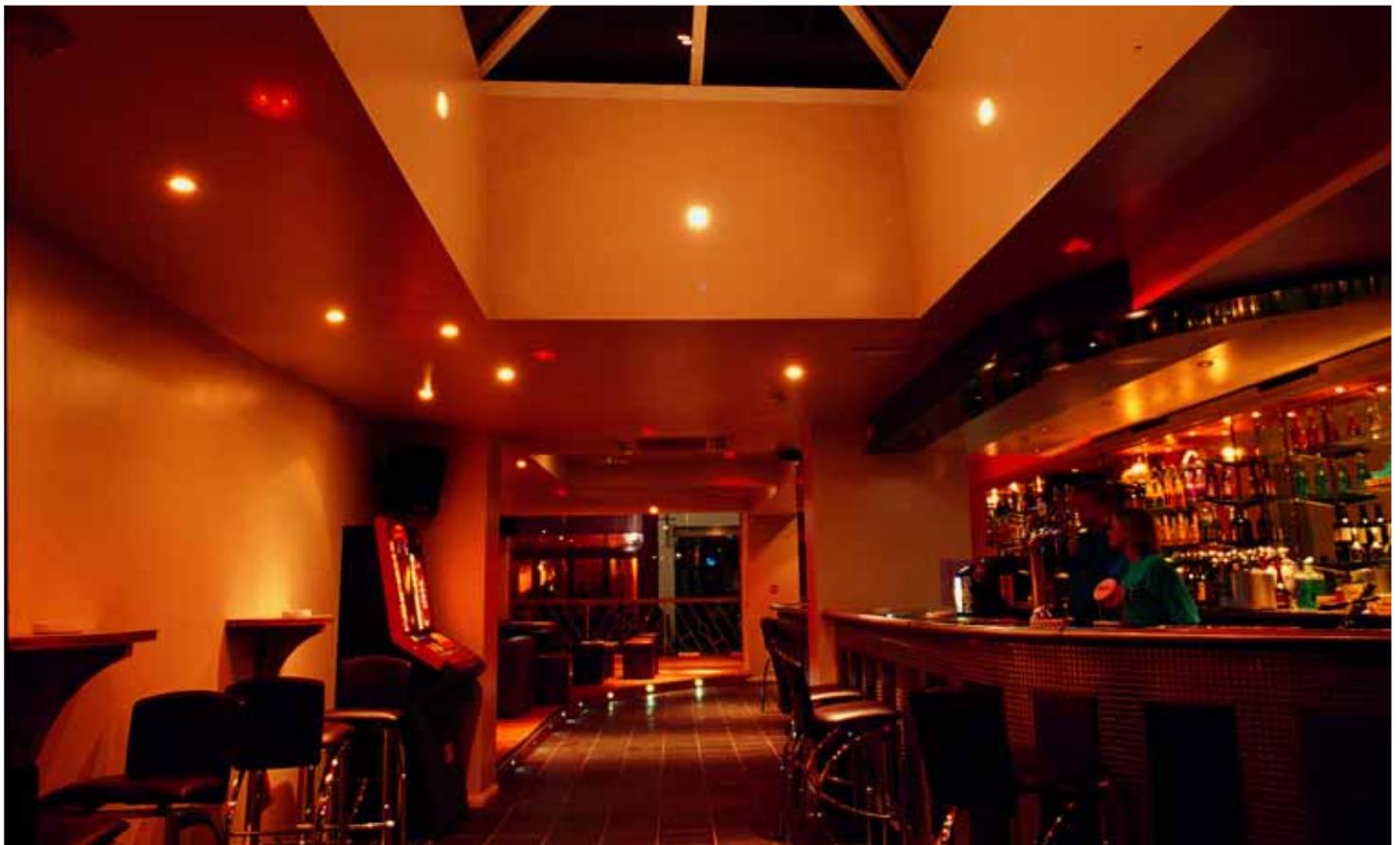
DIMENSIONS	H 42mm W 40mm D 21mm
OUTPUT	3 Watts 3 LEDs
PART NO.	PTDCC3350N

For more details please look at page 58.



DIMENSIONS	H 115mm W 34mm D 19mm
OUTPUT	10 Watts 8 LEDs
PART NO.	PTDCC10350B

For more details please look at page 58.



COMPONENT **LED** S

**OPTOLAMP / MICRO LED**

These LEDs are versatile units with a built-in lens. They can be used separately or together with a light fitting. They have a high power 1 Watt LED. These LED has a white surround which is available in a 6° spot or a 45° flood. There is also a 3 watt version in white only.

The LED CLIP is a versatile unit. It can be used in many locations. It has a 21mm cut out and is available as a high power 1 or 3 watt LED. This LED has a brushed aluminium finish.



DIMENSIONS	Diameter 34mm	Height 28mm
CUT-OUT	28mm	
OUTPUT	1 Watt	
VOLTAGE	12V DC	
LAMP SIZE	MR11	
PART No.	LED LENS1 (6° spot)	BLUE
	LED LENS1 (6° spot)	GREEN
	LED LENS1 (6° spot)	RED
	LED LENS1 (6° spot)	WHITE
	LED LENS1 (6° spot)	YELLOW
	LED LENS1 (6° spot) 3Watt	WHITE 6000K



DIMENSIONS	Diameter 34mm	Height 28mm
CUT-OUT	28mm	
OUTPUT	1 Watt	
VOLTAGE	12V DC	
LAMP SIZE	MR11	
PART No.	LED LENS1 (45° flood)	BLUE
	LED LENS1 (45° flood)	GREEN
	LED LENS1 (45° flood)	RED
	LED LENS1 (45° flood)	WHITE
	LED LENS1 (45° flood)	YELLOW



Available in a triple LED unit.

DIMENSIONS	Diameter 50mm	
	Height 26mm	
CUT-OUT	46mm	
OUTPUT	3 X 1 Watt	
VOLTAGE	12V DC	
LAMP SIZE	MR16	
PART No.	LED LENS3 (6° lens x 3)	BLUE
	LED LENS3 (6° lens x 3)	GREEN
	LED LENS3 (6° lens x 3)	RED
	LED LENS3 (6° lens x 3)	WHITE
	LED LENS3 (6° lens x 3)	YELLOW



DIMENSIONS	Diameter 25mm	Height 16mm	
CUT-OUT	21mm		
OUTPUT	1 / 3 Watts		
VOLTAGE	12V DC	LAMP SIZE	MR8
PART No.	LED CLIP1 (15° Spot) 1 Watt		BLUE
	LED CLIP1 (15° Spot) 1 Watt		GREEN
	LED CLIP1 (15° Spot) 1 Watt		RED
	LED CLIP1 (15° Spot) 1 Watt		WHITE
	LED CLIP1 (15° Spot) 1 Watt only		WARM WHITE
	LED CLIP1 (15° Spot) 1 Watt		YELLOW
	LED CLIP3 (15° Spot) 3 Watts		BLUE
	LED CLIP3 (15° Spot) 3 Watts		GREEN
	LED CLIP3 (15° Spot) 3 Watts		RED
	LED CLIP3 (15° Spot) 3 Watts		WHITE
	LED CLIP3 (15° Spot) 3 Watts		YELLOW

**COMPONENT LED DRIVERS**



DIMENSIONS	H 42mm
	W 40mm
	D 21mm
OUTPUT	3 Watts
Maximum 1Watt LEDs	3 LEDs
PART NO.	PTDC3350N

For more details please look at page 58.



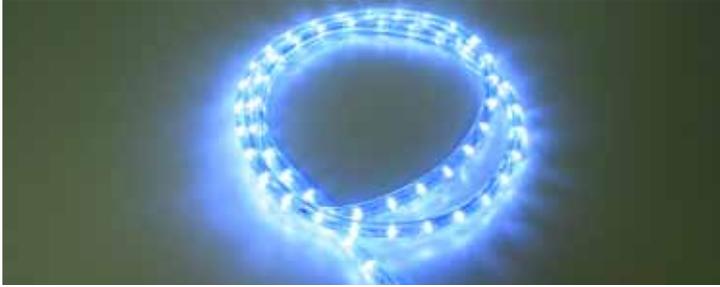
DIMENSIONS	H 115mm
	W 34mm
	D 19mm
OUTPUT	10 Watts
Maximum 1Watt LEDs	8 LEDs
PART NO.	PTDC10350B

For more details please look at page 58.



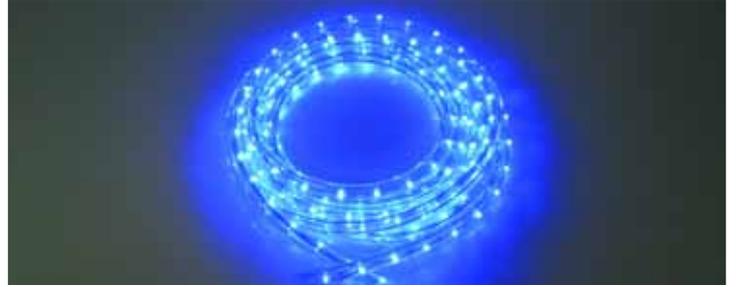
**LED ROPELIGHT**

LED Ropelight has many benefits over standard ropelight. The advantages are; 50000hrs life, bright, sharp light source, low power consumption and virtually no heat, which means that it is safe and can be rebated instead of being surface mounted. LED Ropelight has high visibility, which is ideal to use on building, signs, gardens and shows. It also gives a subtle glow of light that is ideal for mounting into shelves, under cabinets and coving. The LED Ropelight can only be cut on the unit length.



LED COLOUR White 6000k  
DIAMETER 13mm  
WATTS/METRE 2.41 Watts  
LIFE 50000hrs+  
UNIT LENGTH 2m  
VOLTAGE 240V

PART No. LEDDL2W100M CLR



LED COLOUR Blue  
DIAMETER 13mm  
WATTS/METRE 2.41 Watts  
LIFE 50000hrs+  
UNIT LENGTH 2m  
VOLTAGE 240V

PART No. LEDDL2W100M BLUE



LED COLOUR Yellow  
DIAMETER 13mm  
WATTS/METRE 1.44 Watts  
LIFE 50000hrs+  
UNIT LENGTH 3.3m  
VOLTAGE 240V

PART No. LEDDL2W100M YLW



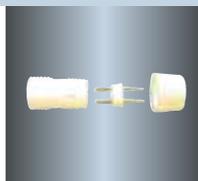
LED COLOUR Red  
DIAMETER 13mm  
WATTS/METRE 1.44 Watts  
LIFE 50000hrs+  
UNIT LENGTH 3.3m  
VOLTAGE 240V

PART No. LEDDL2W100M RED



Power cord 240V

Part No. LEDDL2W1



Power connector 240V

Part No. LEDDL2W4



Plastic end cap

Part No. DL3W6

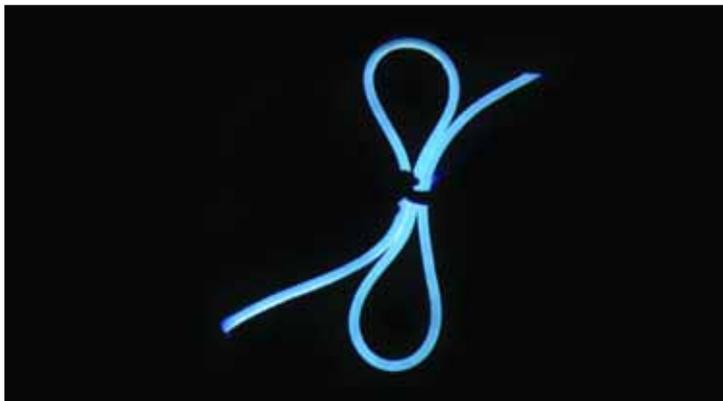
This is what can be achieved



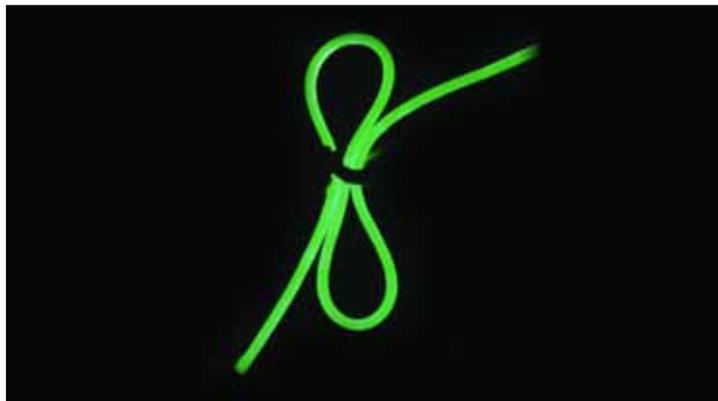
**NEON FLEX**

Though neon has long been the mainstream of the outdoor linear lighting, it still has a lot of unsolved weaknesses. They include complicated installation, fragile nature, potential shock hazard, high maintenance cost & large power consumption.

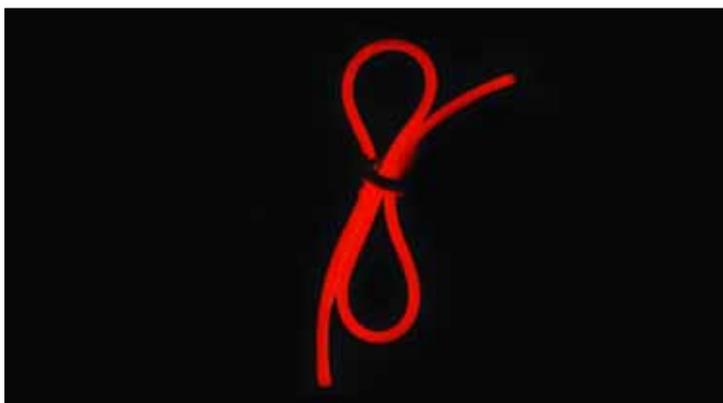
With more than 2 years work on research & development, we are proud to announce that we have finally created a perfect substitute for neon, and we bet you that nobody can observe any difference to the glass neon unless they grasp the NEON FLEX in their hands. Also named as 'bendable neon', you can bend your neon tube in whatever angles by your own hands, installation is within minutes & most important, it gives no hot spot on appearance.



DIMENSIONS	Height 26mm Width 12mm
MAX LENGTH	90M (with 5A converter) 180M (with 10A converter)
CUT MARK	0.91m
WATTS PER METER	7.9 Watts
VOLTAGE	240V
PART No.	LEDLNFX50 Blue



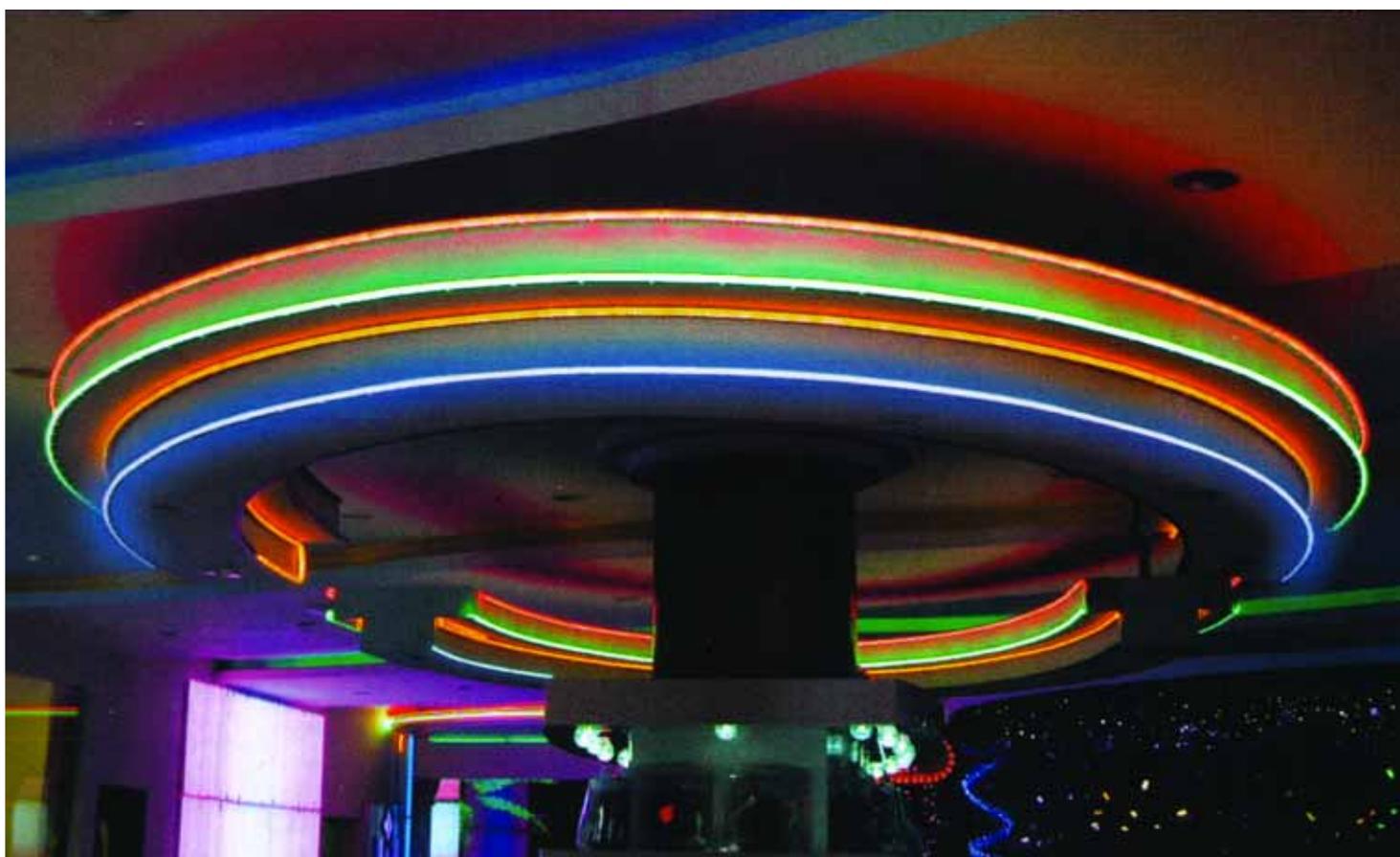
DIMENSIONS	Height 26mm Width 12mm
MAX LENGTH	90M (with 5A converter) 180M (with 10A converter)
CUT MARK	0.91m
WATTS PER METER	7.9 Watts
VOLTAGE	240V
PART No.	LEDLNFX50 Green



DIMENSIONS	Height 26mm Width 12mm
MAX LENGTH	90M (with 5A converter) 180M (with 10A converter)
CUT MARK	1.52m
WATTS PER METER	6.3 Watts
VOLTAGE	240V
PART No.	LEDLNFX50 Red



DIMENSIONS	Height 26mm Width 12mm
MAX LENGTH	90M (with 5A converter) 180M (with 10A converter)
CUT MARK	1.52m
WATTS PER METER	6.3 Watts
VOLTAGE	240V
PART No.	LEDLNFX50 Yellow



**NEON FLEX - ACCESSORIES**

The Neon Flex is a versatile and user-friendly lighting device. It can be cut, bent and formed in the field and is easily installed on the flat surface of varied materials, such as wood, plastic, steel, or concrete wall, etc to form all kinds of patterns according to your design. Below are the accessories which are required for the neon flex. To fix the Neon Flex to wall and ceiling etc, we recommend using 16mm trunking.

**LED NEON FLEX POWER CORD 240V**

With the 240v mains power lead there is no need for a transformer. You can plug this power lead into a socket or connect it to your lighting circuits.

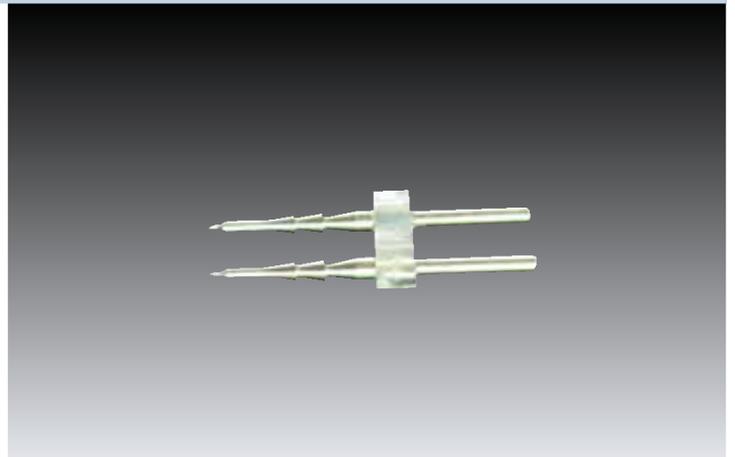
LENGTH 1530mm  
VOLTAGE 240V

PART No. LEDLNFCA1 240V

**LED NEON FLEX CONNECTING PINS**

The connecting pins go between the power cord and the neon flex.

PART No. LEDLNFCA2 240V

**LED NEON FLEX END CAP**

The end cap must be fitted to the neon flex because the end is 240V live.

PART No. LEDLNFCA4 240V

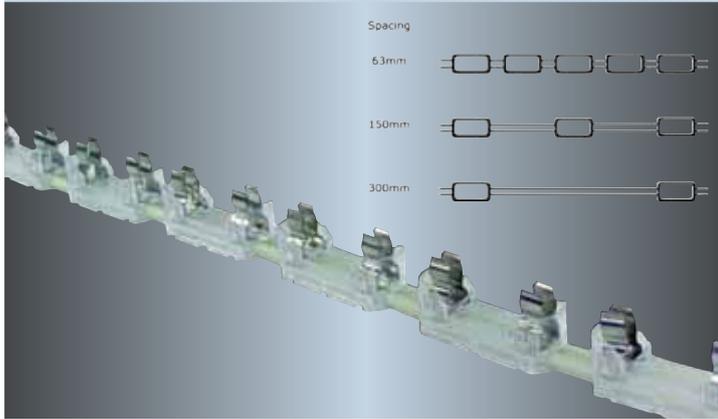




**LED DECOLUME STRIP LIGHT**

LED Decolume strip light is a decorative lighting source for indoor use. The lighting consists of a piece of PCB board with LED chips emitting various beautiful colours such as red, green, blue, lime, white and yellow. For decoration, it uses the traditional festoon bulb shape and design along with a 100,000 hour life without the high heat temperature you get with incandescent or xenon bulbs. The LED Decolume can be run at an amazing 11 metres from one 50W transformer with the 63mm spacings compared with less than 1 metre using incandescent or xenon bulbs.

**DECOLUME STRIPS**



DECOLUME Strips

The Decolume strips come in three different sizes. There are 300mm, 150mm and 63mm centre spacing, from the centre of the lamp holder to the centre of the next lamp holder. The Decolume strip comes in a 10 metre pack. We sell the decolume strips per metre. The decolume can be cut to any length you require.

- DSL6.310M STRIP                      63MM SPACE 12V DC LED
- DSL1510M STRIP                    150MM SPACE 12V DC LED
- DSL3010M STRIP                    300MM SPACE 12V DC LED

**LED DECOLUME LAMPS**



DECOLUME LED lamps

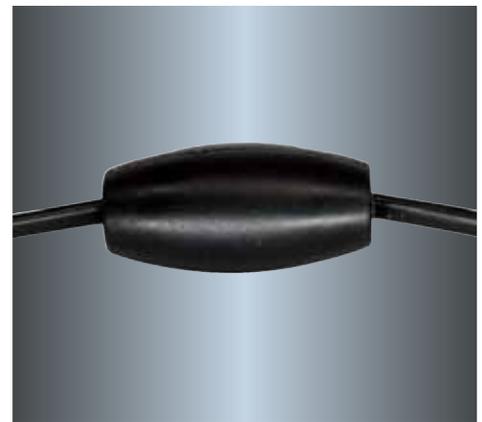
OUTPUT	0.24watts	
VOLTAGE	12V DC	
PART No.	LP008 BLUE	LED FESTOON 12V 0.24W
	LP008 GREEN	LED FESTOON 12V 0.24W
	LP008 LIME	LED FESTOON 12V 0.24W
	LP008 RED	LED FESTOON 12V 0.24W
	LP008 WHITE	LED FESTOON 12V 0.24W
	LP008 YELLOW	LED FESTOON 12V 0.24W



DSL3 FIXING CLIP



DSL7 END CAP



LP CONVERTER

You must put the inverter between the driver and the first lamp.



This is the 12V driver that is required to run the decolume above. The WP52 can run 170 LED lamps and the AL20 can run 66 LED lamps. For more details please look at page 46.

PART No.                      WP52, AL20. See page 59 for more details.

# fittings

driveway - downlights - nightclub - emergency lighting - cinema - guide light - night lights

compasso 20

downlighters 22

low level 24

wall 30

uplighters 36



**COMPASSO LED KIT**

The Compasso fitting takes three MR8 lamps that are adjustable (available in a double also). A 1 or 3 Watt high power component LED can be fitted and be switched on a separate circuit. This will give you two circuits. One with halogen light and one with a LED light. This will create different scenes in your room from bright light for working and reading to a moody light source for watching TV or just relaxing.

There are other options, for example you could put three different coloured LEDs into the Compasso and then by dimming them individually you would be able to create a colour changing light source. The options are endless.

**COMPASSO LED KIT**

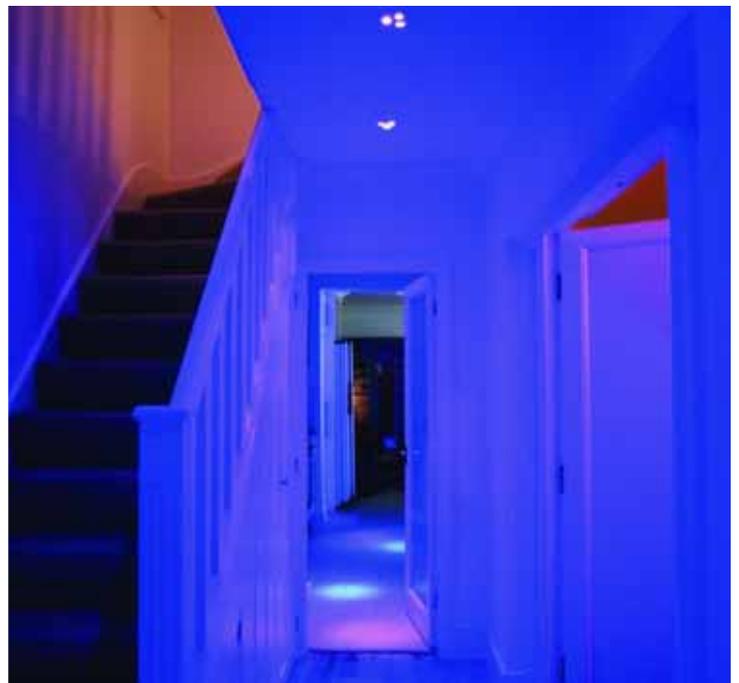
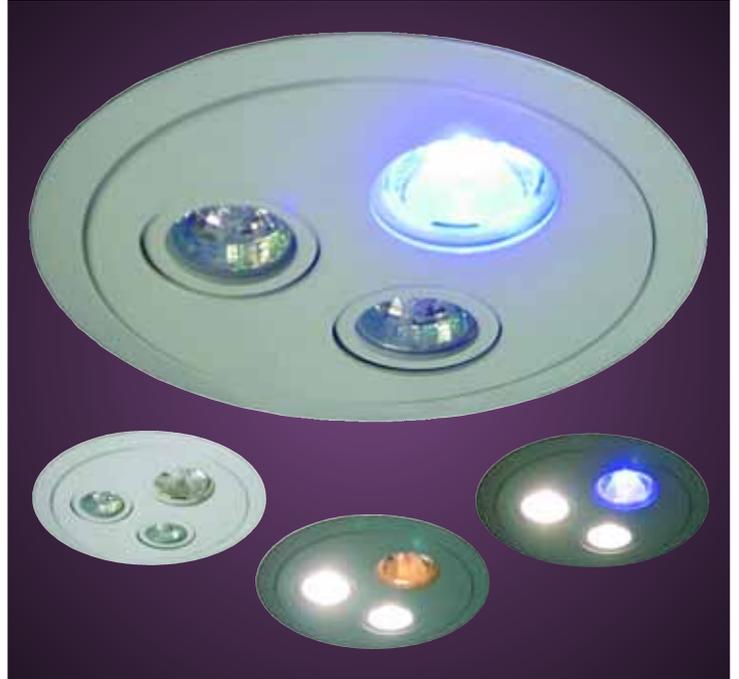
The compasso is available in White or Nickel in a double or triple. Made from cast aluminium with a convenient centre pull down plate for easy lamp replacement, also allowing a 20° tilt on each light and 360° rotation.

## SPECIFICATION

Height	126mm
Diameter	120mm
Cut-Out	113mm
Max Wattage	20 Watts per Lamp

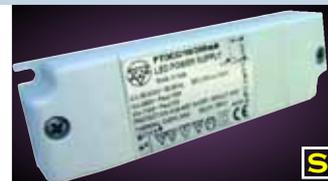
PART No.	Fitting	COMPASSO 31 White Triple COMPASSO 36 Nickel Triple
		COMPASSO 21 White Double COMPASSO 26 Nickel Double
	Lamp	M820 20W 12V 23° Flood or 8° Spot
	LEDs	LED LENS1 see page 9 LED CLIP1 see page 9

For the Dimmable Driver see page 59 - LED Driver 12V

**COMPONENT LED DRIVERS**

DIMENSIONS	H 42mm W 40mm D 21mm
OUTPUT	3 Watts Maximum 1Watt LEDs 3 LEDs
PART NO.	PTDCC3350N

For more details please look at page 58.



DIMENSIONS	H 115mm W 34mm D 19mm
OUTPUT	10 Watts Maximum 1Watt LEDs 8 LEDs
PART NO.	PTDCC10350B

For more details please look at page 58.



**DL7002 RECESSED ROUND - 24V**

This is a small, round, recessed LED fitting. It can be used in the ceiling or walls. It has a high power 1 Watt LED. This fitting must be used with a constant current driver, which are listed below.

## SPECIFICATION

Height	32mm
Diameter	43mm
Cut-Out	33mm
OUTPUT	1 Watt
VOLTAGE	12V DC

PART No.	DL7002A1 AMBER
	DL7002B1 BLUE
	DL7002W1 WHITE

**DL7003 RECESSED SQUARE - 24V**

This is a small, square, recessed LED fitting. It can be used in the ceiling or walls. It has a high power 1 watt LED. This fitting must be used with a constant current driver which are listed below.

## SPECIFICATION

Height	32mm
Diameter	43mm
Cut-Out	33mm
OUTPUT	1 Watt
VOLTAGE	12V DC

PART No.	DL7003A1 AMBER
	DL7003B1 BLUE
	DL7003W1 WHITE

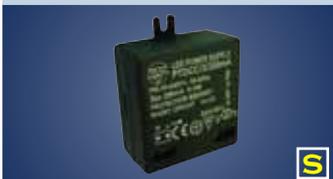
**TL6001 SURFACE SPOTLIGHT - 24V**

This is a small, surface mounted spotlight LED fitting. It can be used in the ceiling or walls. It has a high power 1 watt LED. This fitting must be used with a constant current driver which are listed below.

## SPECIFICATION

Height	32mm
Diameter	43mm
Cut-Out	33mm
OUTPUT	1 Watt
VOLTAGE	12V DC

PART No.	TL6001A1 AMBER
	TL6001B1 BLUE
	TL6001W1 WHITE

**COMPONENT LED DRIVERS**

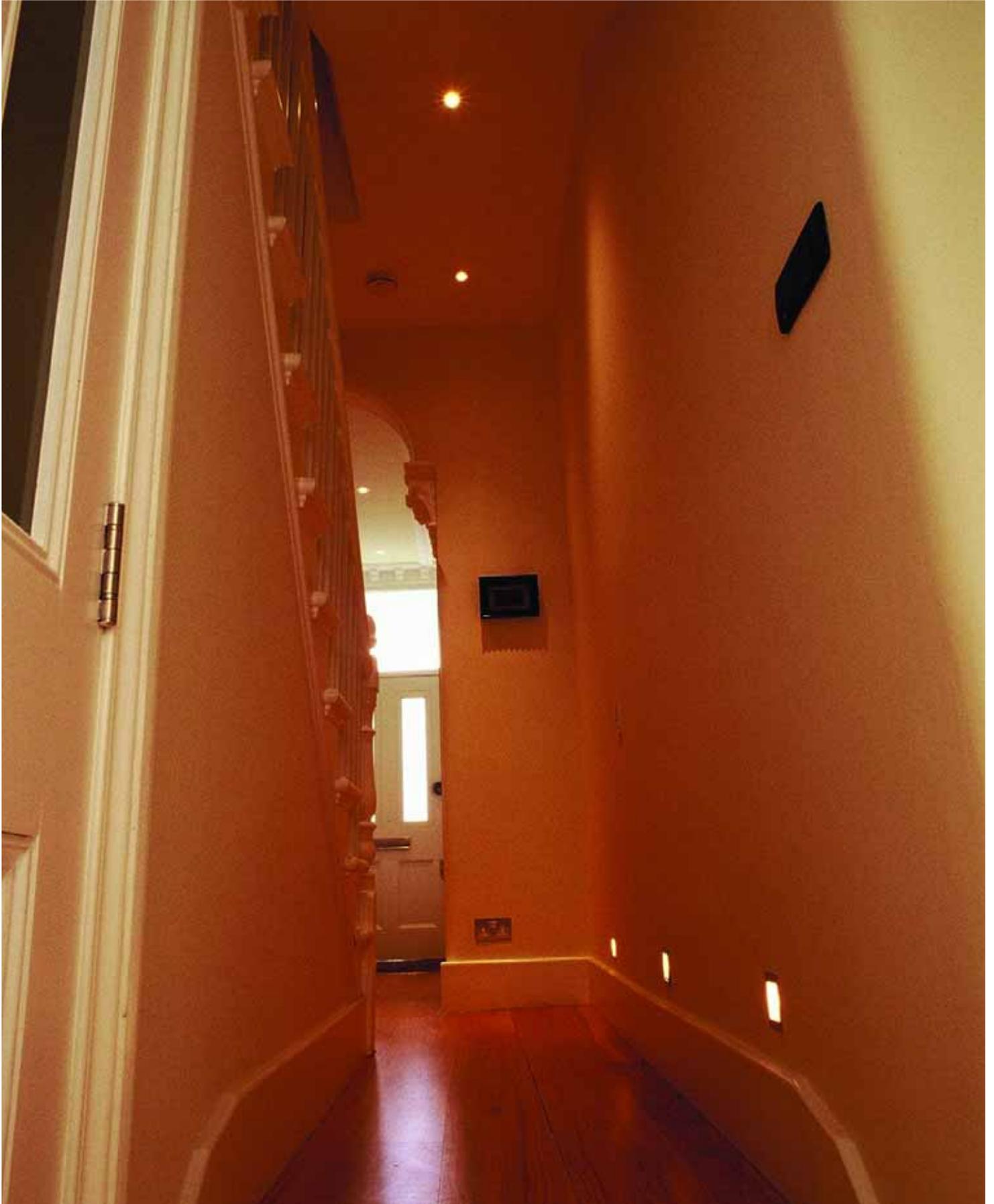
DIMENSIONS	H 42mm W 40mm D 21mm
OUTPUT	3 Watts
Maximum 1Watt LEDs	3 LEDs
PART NO.	PTDCC3350N

For more details please look at page 58.



DIMENSIONS	H 115mm W 34mm D 19mm
OUTPUT	10 Watts
Maximum 1Watt LEDs	8 LEDs
PART NO.	PTDCC10350B

For more details please look at page 58.



**WINDOW LOW LEVEL LED**

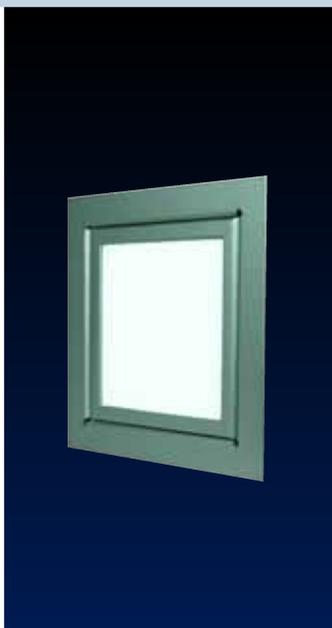
The WINDOW low level LED is a versatile unit that can be used as a decorative light in any modern home. It has wing clips for installation into plasterboard walls and the FM BOX is used if you are fitting it into brick or concrete walls. The WINDOW low level led can have two different windows attached, either the ROUND or the SQUARE window frame.

**WL2301 LED 240V**

## DIMENSIONS

Height	80mm
Width	80mm
Depth	58mm
CUT-OUT	65mm
OUTPUT	1.4 Watts
VOLTAGE	240v

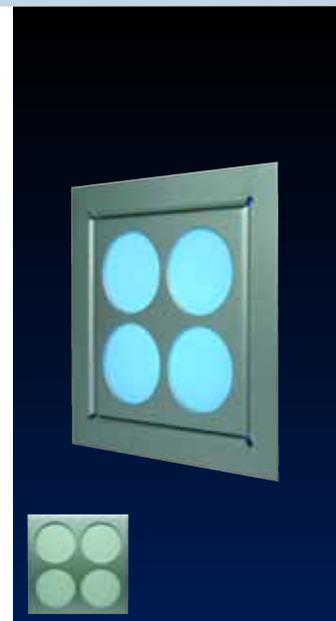
PART No.	
WL2301B4	BLUE
WL2301W4	WHITE

**ROUND WINDOW FRAME ONLY**

## FRAME ONLY

This is the four round window version. The four round window frame is sold separately and then added to the WL2301 to complete the fitting.

PART No.	
WL2303 FRAME	4 Round Window

**SQUARE WINDOW FRAME ONLY**

## FRAME ONLY

This is the four square window version. The four square window frame is sold separately and then added to the WL2301 to complete the fitting.

PART No.	
WL2302 FRAME	4 Square Window

**WL2300 LED 240V / 24V**

## DIMENSIONS

Height	80mm
Width	80mm
Depth	58mm
CUT-OUT	65mm
OUTPUT	1.4 Watts
VOLTAGE	240V / 24V

PART No.	
WL2300W2	White 240v IP40
WL2300B2	Blue 240v IP40
WL2300W2N	White 24v IP44
WL2300B2N	Blue 24v IP44

**Options**

This Box is for use with all the above fittings when installing into brick or concrete.

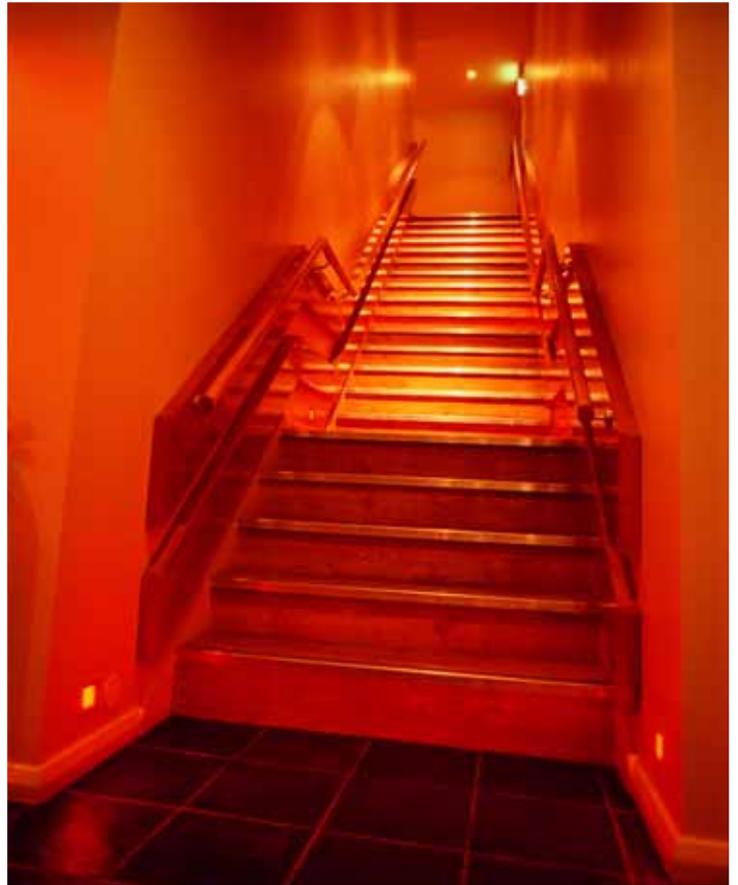
PART No.  
FM BOX ONLY



This 24v LED driver is to be used with the 24v WL2300 fittings.

PART NO. PTDC1024VB

For more details please look at page 58.



**STAIR LOW LEVEL LED**

The STAIR low level LED is a versatile unit that can be used as a decorative light in any modern home. It has wing clips for installation into plasterboard walls and the FM BOX is used if you are fitting it into brick or concrete walls. The semi-frosted glass means that you can see the LEDs, which is sometimes preferred. The moving LED is great to show a path, for example, the exits of restaurant, Clubs and Bars in emergencies. It can also be used domestically for fun wall lighting.



DIMENSIONS      Height 80mm  
                       Width 80mm  
                       Depth 58mm  
 CUT-OUT         65mm  
 OUTPUT            1.4 Watts  
 VOLTAGE          240V  
 PART No.         WL4001F WHITE



DIMENSIONS      Height 80mm  
                       Width 80mm  
                       Depth 58mm  
 CUT-OUT         65mm  
 OUTPUT            0.8 Watts  
 VOLTAGE          240V  
 PART No.         WL4001F RED



DIMENSIONS      Height 80mm  
                       Width 80mm  
                       Depth 58mm  
 CUT-OUT         65mm  
 OUTPUT            1.4 Watts  
 VOLTAGE          240V  
 PART No.         WL4001M WHITE



DIMENSIONS      Height 80mm  
                       Width 80mm  
                       Depth 58mm  
 CUT-OUT         65mm  
 OUTPUT            0.8 Watts  
 VOLTAGE          240V  
 PART No.         WL4001M RED

**MOVING LED**

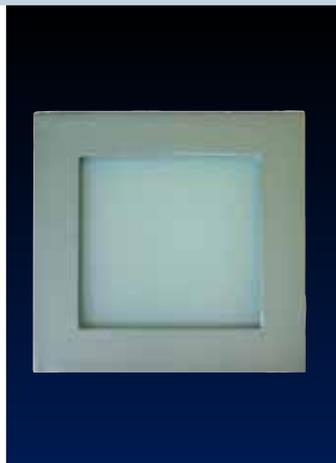
WL4001M WHITE and WL4001M RED are moving LEDs. The sequence is shown from left to right.



**INTERIOR**  **LOW LEVEL**
**WL22114 WHITE LED / SILVER FRAME - BODY AND FRAME**
**DIMENSIONS**

Height	87mm
Width	87mm
Depth	70mm
CUT-OUT	75mm
OUTPUT	1.4 Watt
VOLTAGE	240v
IP Rating	IP44

PART No.	
WL22114B	BLUE LED


**WL22114 BLUE LED / SILVER FRAME - BODY AND FRAME**
**DIMENSIONS**

Height	87mm
Width	87mm
Depth	70mm
CUT-OUT	75mm
OUTPUT	1.4 Watts
VOLTAGE	240V
IP Rating	IP44

PART No.	
WL22114W	WHITE LED


**AQUA SQUARE IP44**

This fitting is a low level light that is IP44. The main unit is sold with either blue or white LEDs and a silver frame. You have the option on this fitting to change the frame to a different colour to match your taste. The frames are available in Chrome, Nickel and White. The frame can be changed very easily. All frames have the same frosted glass to give you diffused light. This fitting will only fit into plaster walls as there is no back box for a brick or concrete wall.

**WL22114 CHROME FRAME ONLY**
**FRAME ONLY**

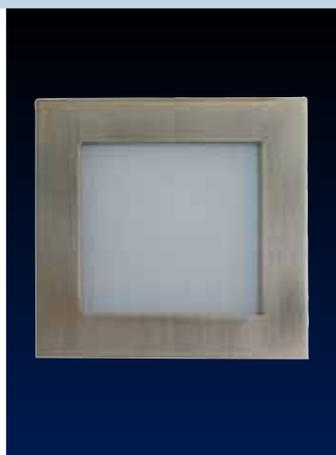
This is the Chrome frame only. The frames are sold separately and then added to the WL22114 to complete the fitting.

PART No.	
WL22114 CHR/OPAL	


**WL22114 NICKEL FRAME ONLY**
**FRAME ONLY**

This is the Nickel frame only. The frames are sold separately and then added to the WL22114 to complete the fitting.

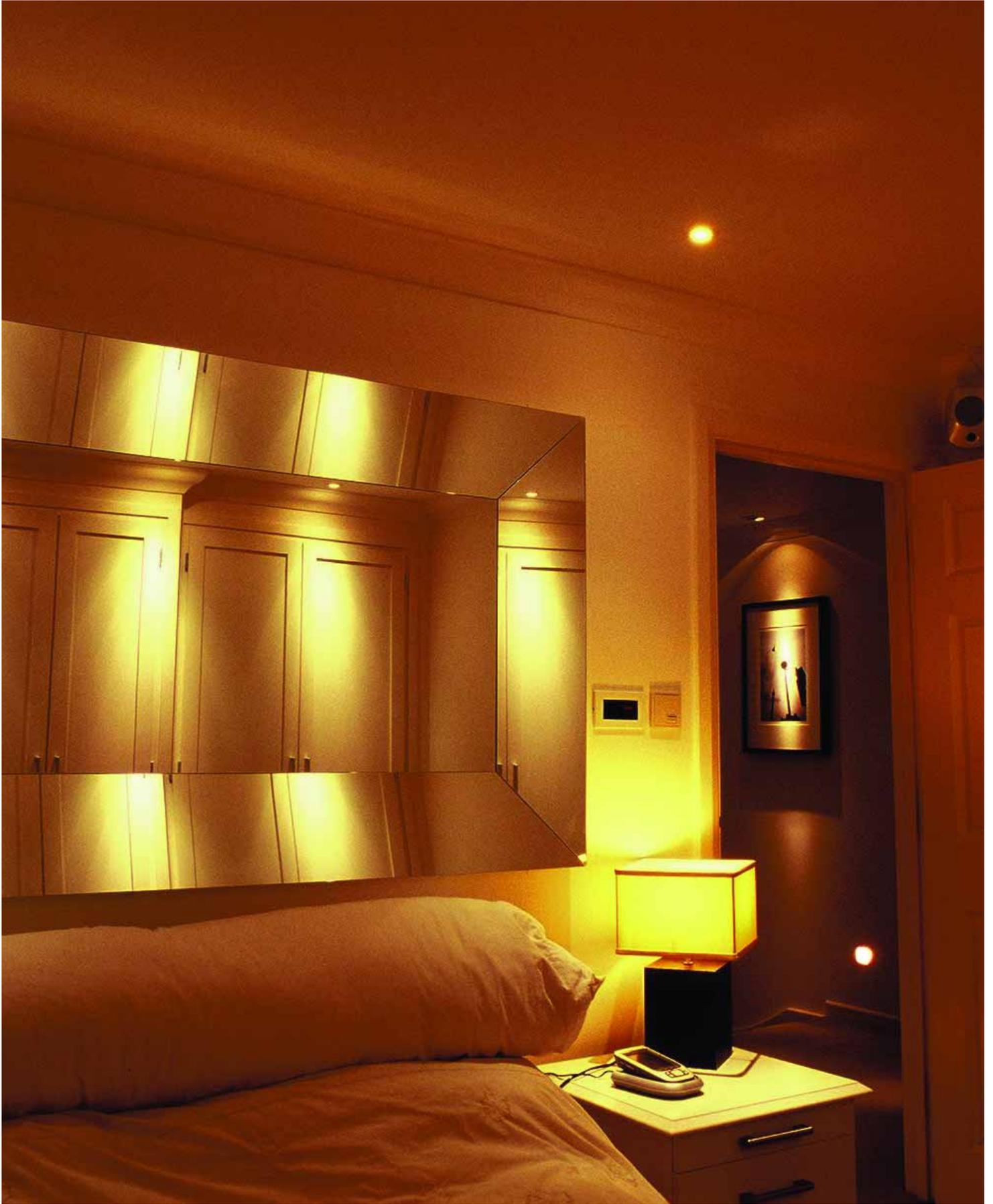
PART No.	
WL22114 NKL/OPAL	


**WL22114 WHITE FRAME ONLY**
**FRAME ONLY**

This is the White frame only. The frames are sold separately and then added to the WL22114 to complete the fitting.

PART No.	
WL22114 WHT/OPAL	





**WL110056 LED SQUARE - IP55**

This fitting is a low level light that is IP55. It can be used in bathrooms and kitchens and even outside. The fitting has a polished chrome bezel with a frosted glass to give a diffused light. There are three LED colours to choose from, Amber, Blue and White.

DIMENSIONS:	Height	71mm
	Width	71mm
	Depth	52mm
	CUT-OUT	64mm
	OUTPUT	1 Watt
	VOLTAGE	24V
	IP Rating	IP55

PART No.	
WL110056A4	POLISHED CHROME BEZEL / AMBER LED
WL110056B4	POLISHED CHROME BEZEL / BLUE LED
WL110056W4	POLISHED CHROME BEZEL / WHITE LED

**WL110057 LED GRID - IP55**

This fitting is a low level light that is IP55. It can be used in bathrooms and kitchens and even outside. The fitting has a polished chrome bezel with a frosted glass to give a diffused light. There are three LED colours to choose from, Amber, Blue and White.

DIMENSIONS:	Height	71mm
	Width	71mm
	Depth	52mm
	CUT-OUT	64mm
	OUTPUT	1 Watt
	VOLTAGE	24V
	IP Rating	IP55

PART No.	
WL110057A4	POLISHED CHROME BEZEL / AMBER LED
WL110057B4	POLISHED CHROME BEZEL / BLUE LED
WL110057W4	POLISHED CHROME BEZEL / WHITE LED

**WL110058 LED MESH - IP55**

This fitting is a low level light that is IP55. It can be used in bathrooms and kitchens and even outside. The fitting has a polished chrome bezel with a frosted glass to give a diffused light. There are three LED colours to choose from, Amber, Blue and White.

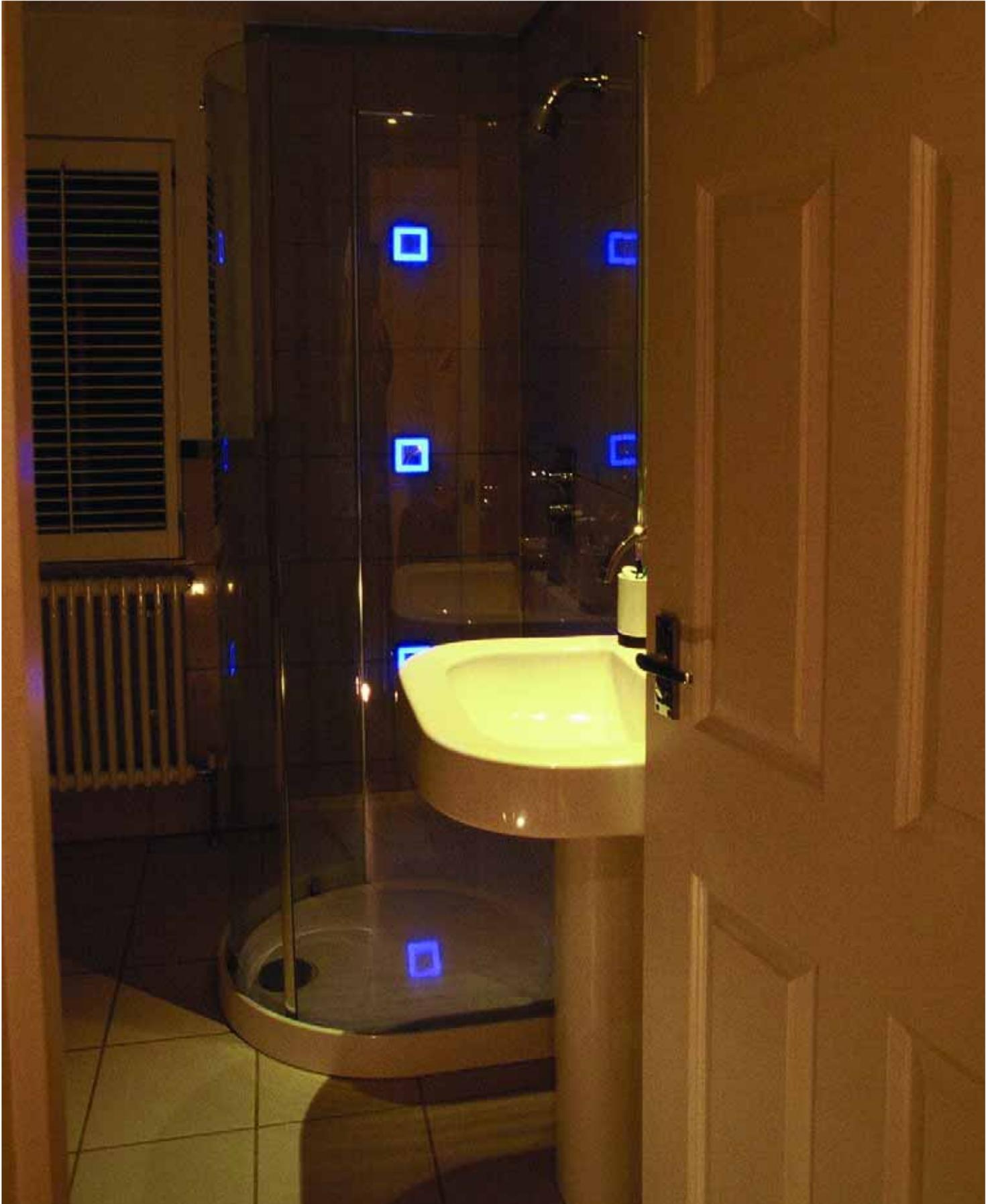
DIMENSIONS:	Height	71mm
	Width	71mm
	Depth	52mm
	CUT-OUT	64mm
	OUTPUT	1 Watt
	VOLTAGE	24V
	IP Rating	IP55

PART No.	
WL110058A4	POLISHED CHROME BEZEL / AMBER LED
WL110058B4	POLISHED CHROME BEZEL / BLUE LED
WL110058W4	POLISHED CHROME BEZEL / WHITE LED

**Options**

This is the 24V driver that is required to run any of the wall lights above. For more details please look at page 58.

PART No. PTDC1024VB



**EL504200 RECESSED RECTANGLE**

This fitting is a decorative wall light. The fitting has a brushed steel bezel with a frosted glass to give a diffused light. There are four LED colours to choose from, Blue, Red, White and Yellow.

DIMENSIONS:	Height	460mm
	Width	70mm
	Depth	63mm
	CUT-OUT	62mm x 395mm
	OUTPUT	4 Watts
	VOLTAGE	10V DC
	IP Rating	IP20

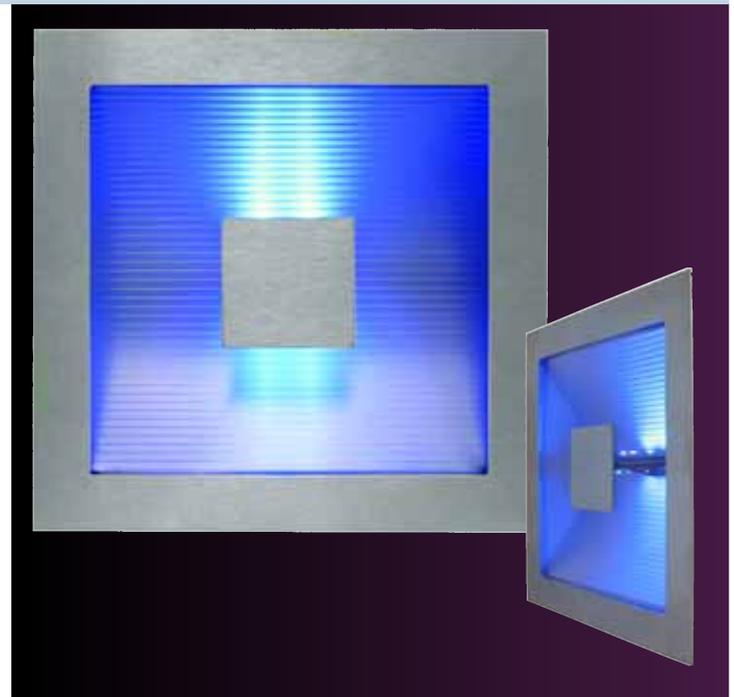
PART No.	
EL5042001X WHITE	STAINLESS STEEL BEZEL / WHITE LED
EL5042002X BLUE	STAINLESS STEEL BEZEL / BLUE LED
EL5042003X RED	STAINLESS STEEL BEZEL / RED LED
EL5042006X YELLOW	STAINLESS STEEL BEZEL / YELLOW LED

**EL501400 RECESSED SQUARE**

This fitting is a low level light that is IP20. The fitting has a stainless steel bezel with a clear glass. There are two LED colours to choose from Blue and White.

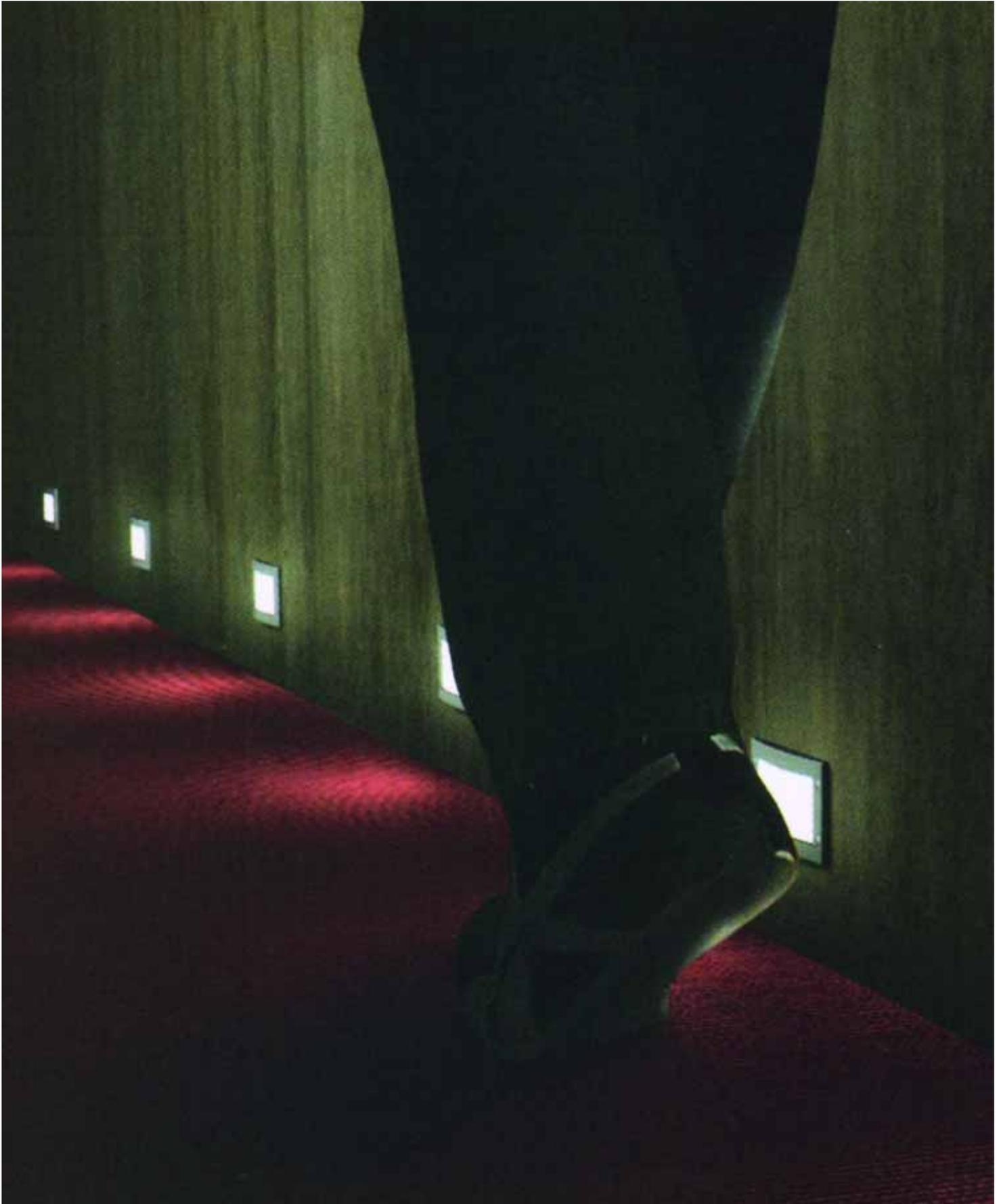
DIMENSIONS:	Height	155mm
	Width	155mm
	Depth	63mm
	CUT-OUT	145mm x 145mm
	OUTPUT	1 Watts
	VOLTAGE	10V DC
	IP Rating	IP20

PART No.	
EL5014001X	STAINLESS STEEL BEZEL / WHITE LED
EL5014002X	STAINLESS STEEL BEZEL / BLUE LED

**Options**

This is the 10V driver that is required to run the lights above. For more details please look at page 59.

PART No. RN1365



**AL4010W WALL RECTANGLE - IP67**

This fitting is a wall light that is IP67. It can be used in bathrooms, kitchens and even outside. The fitting has a satin stainless steel bezel with a clear glass. There are four LED colours to choose from, Amber, Blue, Red and White.

DIMENSIONS:	Height	202mm
	Width	80mm
	Depth	98mm
	CUT-OUT	195mm x 72mm
	OUTPUT	2 Watts
	VOLTAGE	240V / 24V DC
	IP Rating	IP67

Part Number for Mains 240V model. No LED driver required.

AL4010WA	240V - STAINLESS STEEL / AMBER LED
AL4010WB	240V - STAINLESS STEEL / BLUE LED
AL4010WR	240V - STAINLESS STEEL / RED LED
AL4010WW	240V - STAINLESS STEEL / WHITE LED

Part Number for Low Voltage model. 24V DC LED driver required.

AL4010WAN	24V - STAINLESS STEEL / AMBER LED
AL4010WBN	24V - STAINLESS STEEL / BLUE LED
AL4010WRN	24V - STAINLESS STEEL / RED LED
AL4010WWN	24V - STAINLESS STEEL / WHITE LED

**157 WALL BRICK - IP65**

This fitting is a wall brick light which is IP65. It can be used in bathrooms and kitchens and even outside. The fitting has a silver finish bezel with a opal diffuser. There are two LED colours to choose from, Blue and White.

DIMENSIONS:	Height	80mm
	Width	155mm
	Depth	61mm
	CUT-OUT	70mm x 145mm
	OUTPUT	1.5 Watts
	VOLTAGE	10V DC
	IP Rating	IP65

PART No.	
1576420 BLUE	SILVER BEZEL / BLUE LED
1573120 WHITE	SILVER BEZEL / WHITE LED



This is the 24V driver that is required to run the AL4010 fitting.

PART No. PTDC1024VB

For more details please look at page 58.

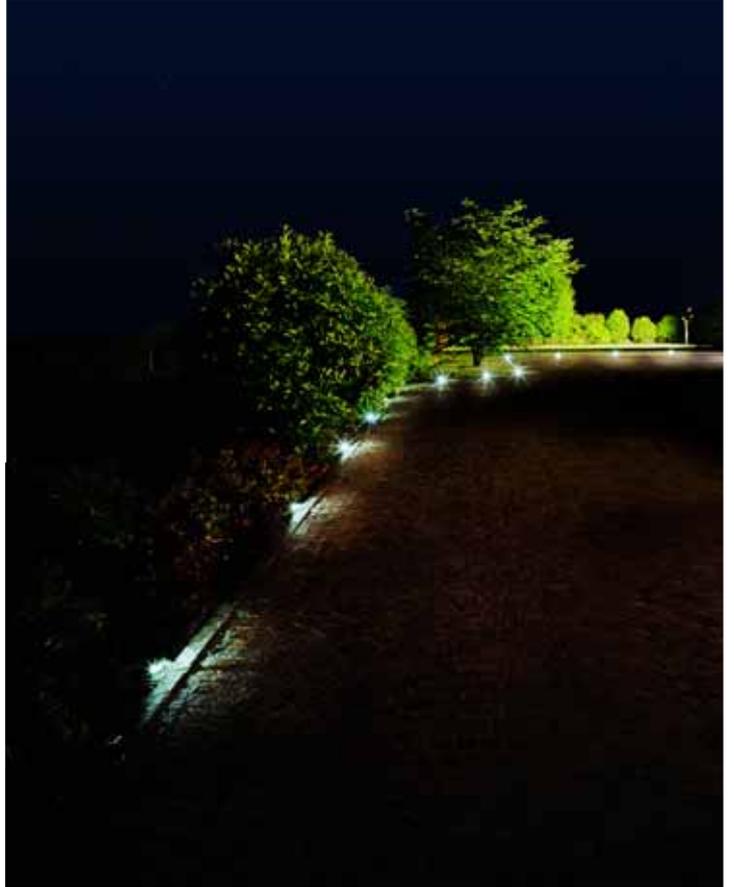


This is the 10V driver which is required to run the brick light fitting.

PART No. RN1365

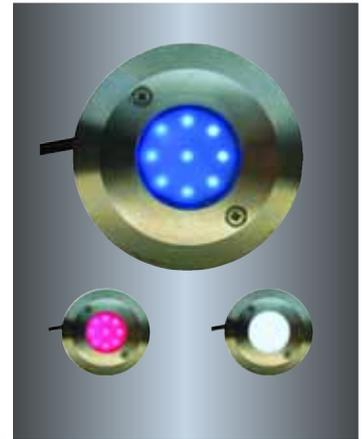
For more details please look at page 59.





**UPLIGHTER RANGE**

The ground buried, walk-over and drive-over LED uplighter is IP67. It has 9 high efficiency LEDs that equals a total power output of 1.5watts. This unit is 240v and does not require any driver or transformer. It has a stainless steel bezel with a sand blasted glass. This fitting is ideal for decking, pathways and driveways. It can be used internally as well, which is shown in the location pictures.



**DIMENSIONS:** Diameter 76mm  
Height 65mm  
**CUT-OUT:** 60mm  
**OUTPUT:** 1.5 Watts  
**VOLTAGE:** 240V

**PART NO.** E8391LB1LSS White  
E8391LBLLPSS Blue  
E8391LROLPSS Red



**DIMENSIONS:** Diameter 76mm  
Height 65mm  
**CUT-OUT:** 60mm  
**OUTPUT:** 1.5 Watts  
**VOLTAGE:** 240V

**PART No.** E8392LB1 White  
E8392LBL Blue  
E8392LRO Red

**HOUSING BOX FOR E8391/2**

**DIMENSIONS:** Diameter@Top 65.5mm  
Diameter@Bottom 111mm  
Height 65mm

**PART No.** 185 BOX Black



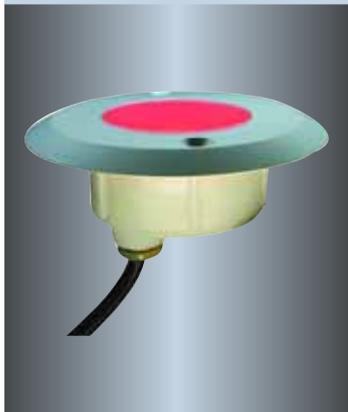


**UPLIGHTER RANGE**

The LED101 is an IP68 uplighter. An economical mini LED light which is visually bright. To be used in floors or walls. Vehicles can travel over the fitting at low speed. The fitting will bear a static load up to 1000kg, if uniformly stationed. It has an aluminium bezel and opal glass. It is available in 5 colours. This fitting is used where you require a bright signal light for decking, pathways and driveways.



**LED101**



**DIMENSIONS:** Diameter 84mm  
Height 38mm  
**CUT-OUT:** 52mm  
**OUTPUT:** 0.25 Watts  
**VOLTAGE:** 12V AC  
**PART NO.** LED101 AMBER, BLUE, GREEN, RED, WHITE

**DIMENSIONS:** Diameter 66mm  
Height 43mm  
This box is sold with the LED101 fitting.

Driver Part No. WP52 or AL20, see Page 59

**OPTIONS**



This is the 12V driver that is required to run any of the uplighters above.

**PART No.**  
WP52

For more details please look at page 59.





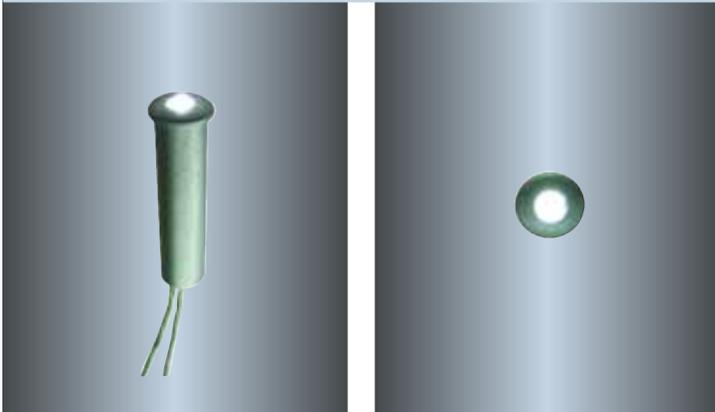


**UPLIGHTER RANGE**

The AL2110 and AL2112 are both IP65 uplighters. They can be used internally or externally. The AL2110 is very discreet, which means that it can be used in many places. For example it could be fitted into a tile in your bathroom for a very discreet light. The AL2112 is the larger light fitting. It can be used for decking, pathways and driveways. They both can be used as decorative lights internally as shown in the location pictures.



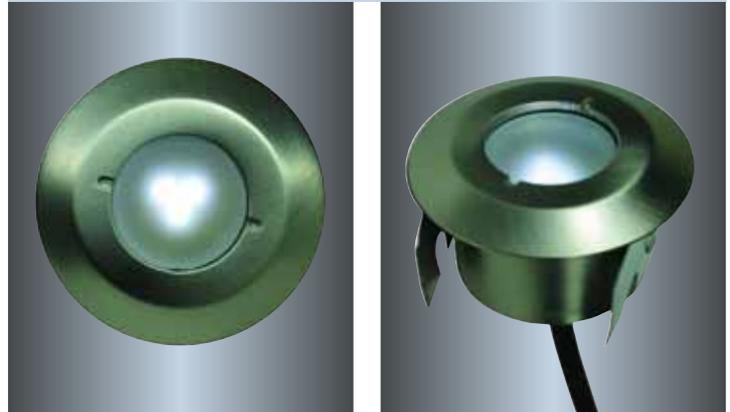
**AL2110 - IP65**



**DIMENSIONS:** Diameter 12mm  
Height 42mm  
**CUT-OUT:** 10mm  
**OUTPUT:** 0.5 Watts  
**BEAM ANGLE:** 15°  
**VOLTAGE:** 24V DC

<b>PART NO.</b>	AL2110A1	AMBER
	AL2110B1	BLUE
	AL2110G1	GREEN
	AL2110R1	RED
	AL2110W1	WHITE

**AL2112 - IP65**



**DIMENSIONS:** Diameter 65mm  
Height 30mm  
**CUT-OUT:** 53mm  
**OUTPUT:** 0.8 Watts  
**BEAM ANGLE:** 15°  
**VOLTAGE:** 24V DC

<b>PART NO.</b>	AL2112B-3	BLUE
	AL2112W-3	WHITE

**Options**



This is the 24V driver that is required to run any of the uplighters above.

**PART No.** PTDC1024VB

For more details please look at page 58.



This is the burial tube for the AL2112 fitting. It can be used in floors or walls.

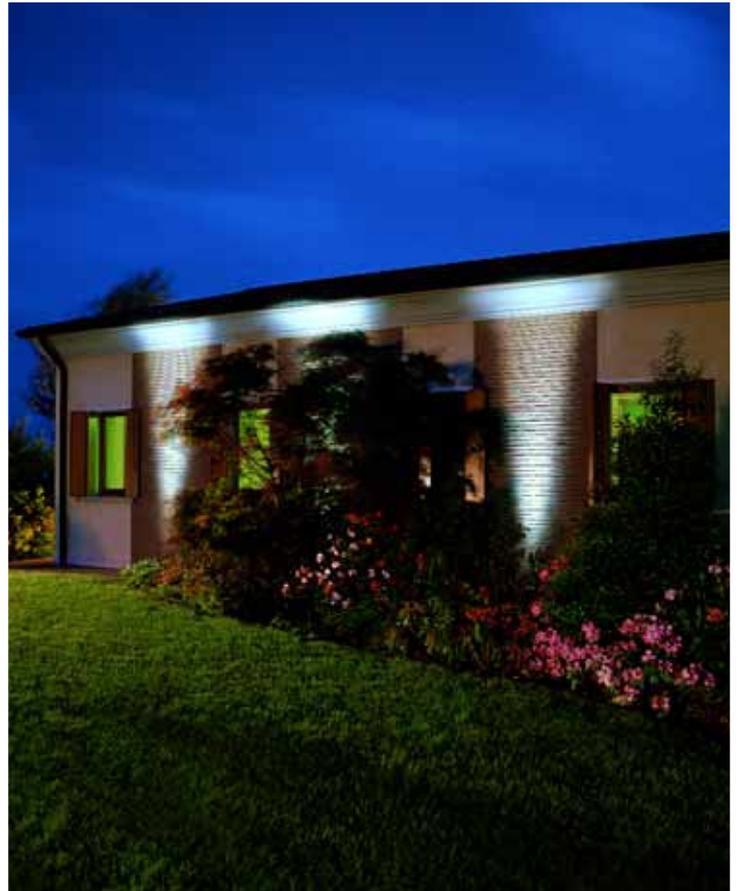
**PART No.** 3004



**UPLIGHTER RANGE**

The AL4009 and AL2007 are both IP67 square uplighters. They can be used internally or externally. They can be driven over, which makes them ideal for pathways and driveways. Available in two sizes with or without integral transformer. Without the integral transformers this fitting can be fitted near water features and swimming pools. Available in either Amber, Blue or White.

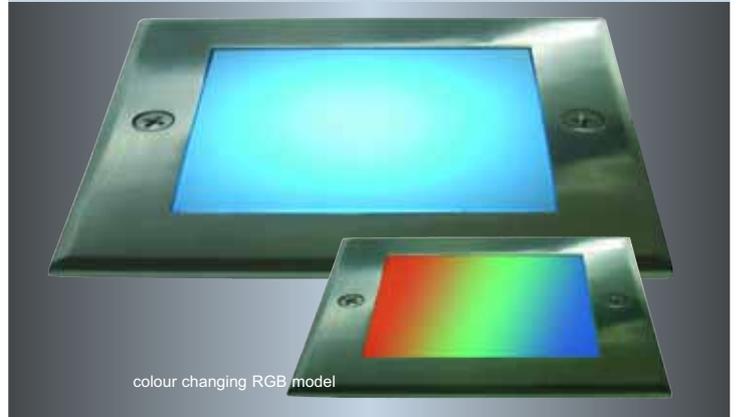
The AL2007RGB is an automatic colour changing LED light. It slowly changes between red, green and blue.



**AL4009 - IP67**



**AL2007 - IP67**



DIMENSIONS: 94mm X 94mm  
 Height 114mm  
 CUT-OUT: 86mm x 86mm  
 OUTPUT: 2 Watts  
 VOLTAGE: 240V / 24V DC

PART NO.	AL4009A4	240V AMBER
	AL4009B4	240V BLUE
	AL4009W4	240V WHITE
	AL4009A4N	24V AMBER
	AL4009B4N	24V BLUE
	AL4009W4N	24V WHITE

DIMENSIONS: 120mm X 120mm  
 Height 124mm  
 CUT-OUT: 110mm x 110mm  
 OUTPUT: 4 Watts  
 VOLTAGE: 240V / 24V DC

PART NO.	AL2007A4	240V AMBER
	AL2007B4	240V BLUE
	AL2007W4	240V WHITE
	AL2007RGB12 SS	240V RGB COLOUR
	AL2007A4N	24V AMBER
	AL2007B4N	24V BLUE
	AL2007W4N	24V WHITE

**OPTIONS**



This is the 24V driver that is required to run any of the spotlights above.

PART No. PTDC1024VB

For more details please look at page 58.

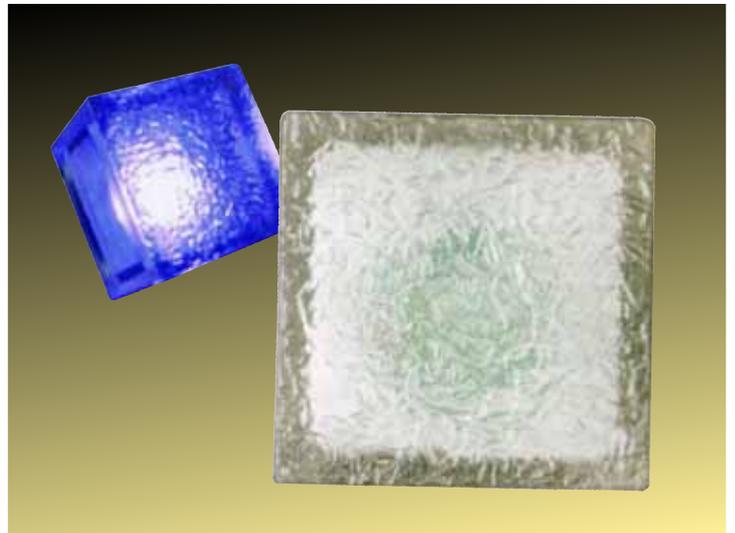
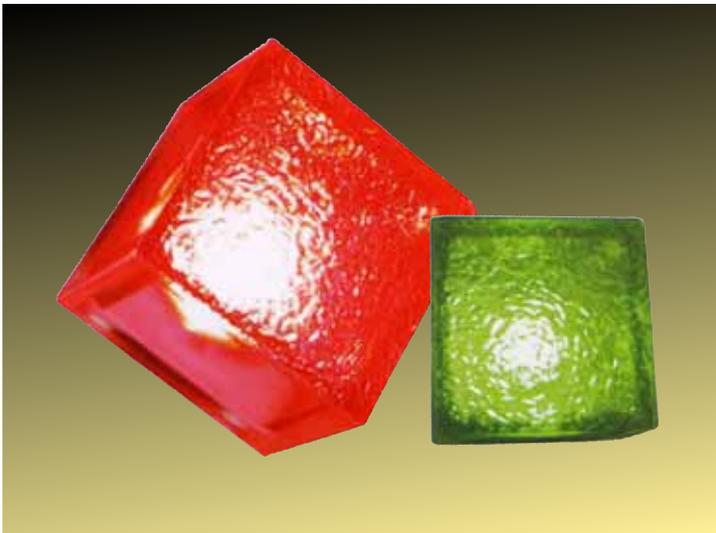




### LED BLOCK - IP68

The LED Block is a transparent brick type light. It can be used to create visual effects on driveways, payways, gardens, roads, walls etc.

DIMENSIONS	Diameter	150mm
	Height	150mm
CUT-OUT	150mm	
OUTPUT	4.5 Watts	
VOLTAGE	12V DC	
PART No.	LED BLOCK - IP68	



**INTERIOR / EXTERIOR UPLIGHTERS**
**LEDSUB - IP66**

This range uses new 1 watt narrow beam technology for highlighting your garden to create dramatic lighting. This fitting has the LED Driver built into it which means you can connect the LEDSUB to a 240V supply. It comes with a spike and a wall bracket.

DIMENSIONS	Diameter	90mm
	Height	92mm
OUTPUT		1 Watt
VOLTAGE		240V
BEAM ANGLE		10°

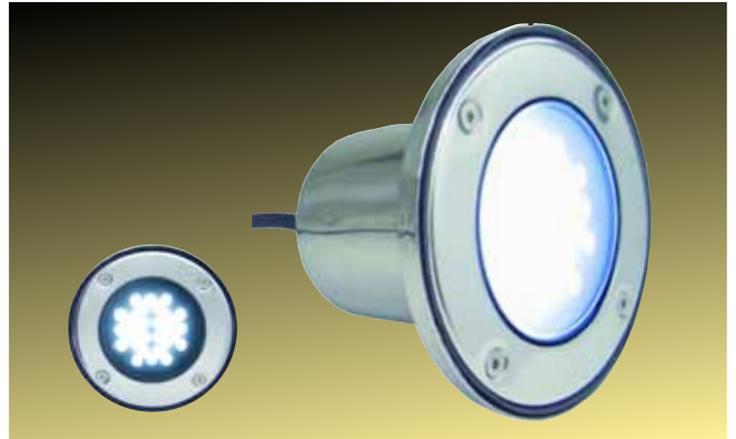
PART No.	LEDSUB706029	BLACK / BLUE LED
	LEDSUB716029	BLACK / WHITE LED
	LEDSUB716019	SILVER / WHITE LED
	LEDSUB706019	SILVER / BLUE LED


**LEDSTEP - IP68**

The LEDSTEP has 30 LEDs that give 2 watts of light. This fitting is ideal for use in your decking to highlight your garden to create dramatic lighting. This fitting has the LED Driver built into it which means you can connect the LEDSTEP to a 240V supply.

DIMENSIONS	Diameter	112mm
	Height	110mm
CUT-OUT		70mm
OUTPUT		2 Watt
VOLTAGE		240V
BEAM ANGLE		30°

PART No.	AL2003	WHITE
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**DRAGONFLY - IP66**

This range uses new 1 watt narrow beam technology for highlighting your garden to create dramatic lighting. This fitting has three separate lights each connected to the LED driver with a three metre lead.

DIMENSIONS	Diameter	50mm
	Height	80mm
OUTPUT		1 Watt
VOLTAGE		240V
BEAM ANGLE		30°

PART No.

1670239	SILVER / BLUE LED
1672039	SILVER / GREEN LED
1670339	SILVER / RED LED
1670139	SILVER / WHITE LED
1672239	SILVER / YELLOW LED





# colour changing

shower - mood light - restaurant - gardens - coloured walls - glass - atmosphere

colourstar 48

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COLOUR CHANGING LED COLOURSTAR (IR)



**COLOUR STAR LAMP**

The Colour star is a high power MR16 LED lamp. It is controlled with an infra red(IR) remote control. The remote can be used to instantly choose from the following:

- 15 preset colours or white
- 4 dimming levels
- 4 different colour change programmes which are:
  - Step colour change, fast or slow,
  - Smooth colour change, fast or slow.

The colour star will fit into most low voltage downlighter that take a 50mm dichroic lamp.

DIMENSIONS:	Height	52mm
	Diameter	50mm
	OUTPUT	1 Watt
	VOLTAGE	12V DC
	BEAM ANGLE	30°

PART No.  
CCRGB LAMP GX5.3      LED RGB 12V DC 1 WATT

**COLOUR STAR REMOTE**

One remote control can operate as many Colourstar lamp as you require. Whichever Colourstar you point the remote at will be operated. The colourstar remote is very simple to use with pre-programmed buttons. You have 15 buttons to represent all the colours and another button for white. Just press the colour button for that colour instantly. Other buttons let you pick a constantly changing colour. Takes 2 x AAA batteries, which are included.

DIMENSIONS:	Height	160mm
	Width	60mm
	Depth	16mm

PART No.  
CCRGB REMOTE      COLOUR CHANGING REMOTE

**COLOUR STAR DRIVER**

The colourstar driver is the only driver which will work with this fitting. You can run one colourstar lamps from one driver. This driver is small enough to go through the hole

DIMENSIONS:	Height	75mm
	Width	36mm
	Depth	19mm
	OUTPUT	10VA
	VOLTAGE	12V DC
	MAX LEDs	1

PART No.  
CCRGB DRIVER      LED DRIVER 10W 12V





**HAPPY TRACK**

The Happy Track is a combination between a Concord track fitting and our Colour Star colour changing lamp. This means that you have a colour changing track fitting as a kit.

DIMENSIONS:	Height	160mm maximum
	Width	145mm maximum
	Depth	55mm
	OUTPUT	1 Watt
	VOLTAGE	12V DC
	BEAM ANGLE	30°

PART No.  
HAPPY TRACK LED                      LED RGB 12V DC 1 WATT

**HAPPY DOWNLIGHT**

The Happy Downlight is a combination between our DL336 downlighter fitting and our Colour Star colour changing lamp. This means that you have a colour changing adjustable downlight fitting as a kit.

DIMENSIONS:	Diameter	88mm
	Height	72mm
	OUTPUT	1 Watt
	VOLTAGE	12V DC
	BEAM ANGLE	30°

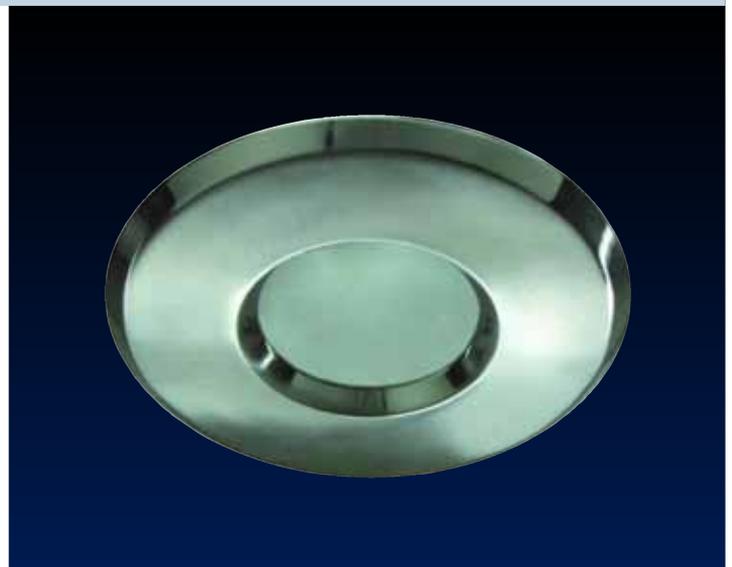
PART No.  
HAPPY DOWNLIGHT LED                      LED RGB 12V DC 1 WATT

**HAPPY SHOWER - IP55**

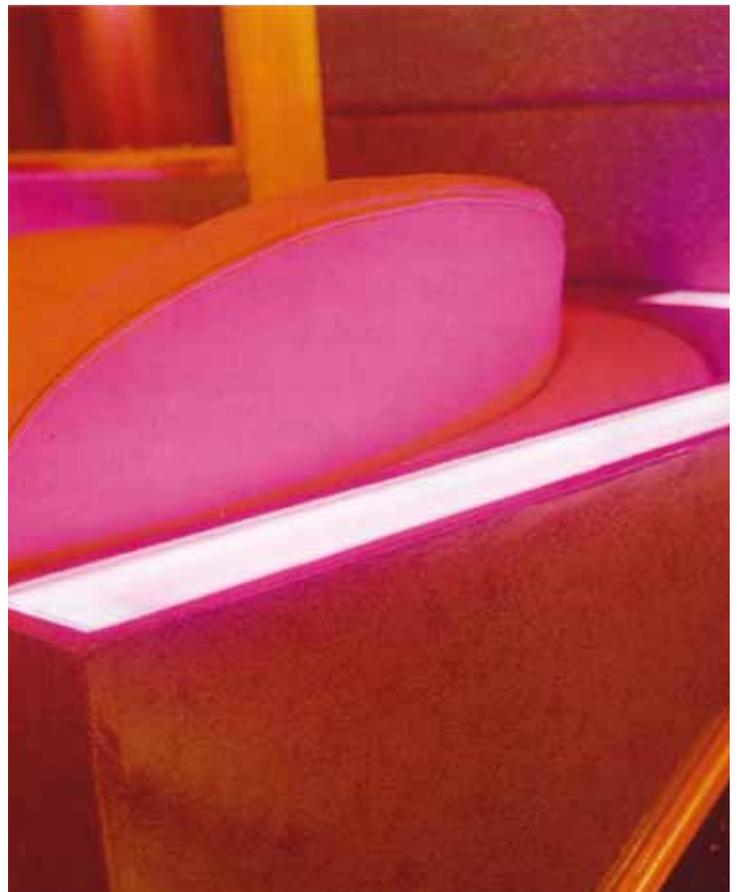
The Happy Shower is a combination between our DH2063 shower light fitting and our Colour Star colour changing lamp. This means that you have a colour changing shower fitting as a kit.

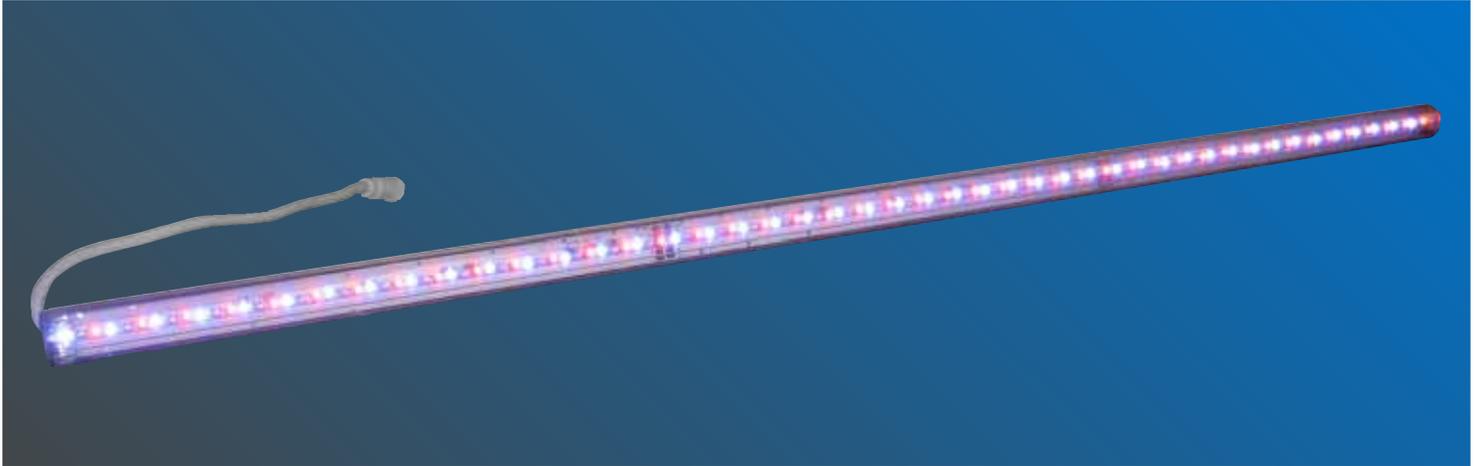
DIMENSIONS:	Diameter	85mm
	Height	72mm
	OUTPUT	1 Watt
	VOLTAGE	12V DC
	BEAM ANGLE	30°

PART No.  
HAPPY SHOWER LED                      LED RGB 12V DC 1 WATT



COLOUR CHANGING LED (RGB)  RGB COLOUR STRIP



**COLOUR CHANGING LED (RGB)  RGB COLOUR STRIP**
**LN-MN RGB COLOUR STRIP**


The LED Strip offers a 24-bit (full colour) range of colour mixing. Controllers function in stand alone mode or as a DMX interface to program numerous colour and lighting effects, to intelligently light art exhibitions, lounges, restaurants, night clubs and bars.

Length 332mm  
 Diameter 30mm  
 OUTPUT 6 Watts  
 VOLTAGE 24V DC  
 BEAM ANGLE 110°

Length 1000mm  
 Diameter 30mm  
 OUTPUT 18 Watts  
 VOLTAGE 24V DC  
 BEAM ANGLE 110°

Part No. LNMN300 24V RGB

LNMN1000 24V RGB

**SRC-171 LED RGB CONTROL**


The SRC-171 is a programmable controller for the LED strip above. It is simple to use, but is a very effective tool. This controller has colour mixing programs that are all adjustable. These include colour, speed and strobe programs. This control can be interfaced with Lutron or Rako control systems.

DIMENSIONS: Height 65mm  
 Length 360mm  
 Width 310mm  
 OUTPUT 8 Parallel Outputs, 24V, Total 10A Max  
 VOLTAGE 240V 300W Fused  
 Display LED Display

PART No. SRC171 LED RGB CONTROL



## LED AQUA RGB LA-DIA 220-12V-PI



The LED AQUA is a submersible lighting device, specially designed to operate in underwater locations up to 2 metres deep. It is perfect for fountains, garden pools, water features etc. It can project a soft-edged beam of light at a 25° beam angle, which is generated by red, green, and blue LEDs, bringing colour changing effects to you on a 256 colour scale. An assortment of colour changing shows is pre-programmed in each unit. They can be also controlled by a DMX console.

The LED AQUA is made from stainless steel, and comes equipped with a clear, tempered glass lens and mounting yoke, which offers ease of installation and angle adjustment.

DIMENSIONS	Length	255mm
	Width	180mm
	Depth	245mm
IP Rating	IP68	
OUTPUT	25 Watts	
VOLTAGE	12V DC	
BEAM ANGLE	25°	
Colour Range	256 gray scale colour-changing effects	
Light Source	High brightness coloured LEDs	
Housing	Stainless Steel	
Connectors	3-pin signal connector	
Controlling system	Pre-programmed or DMX console	

PART No. LADIA22012VPI

## LED WALL FLOOD LIGHT RGB LW-AL-320 x 130-12V-PI

The LED WALL FLOOD LIGHT is a high output LED floor light for use indoors or outdoors.

DIMENSIONS	Length	320mm
	Width	145mm
	Height	225mm
IP Rating	IP44	
OUTPUT	25 Watts	
VOLTAGE	12V DC	
BEAM ANGLE	45°	
Colour Range	16 million static colour shows are available	
Light Source	High brightness coloured LEDs	
Housing	Stainless Steel	
Connectors	3-pin signal connector	
Controlling system	Pre-programmed or DMX console	

PART No. LWAL32013012V



**technical**

drivers 58

wiring diagrams 60

**LED DRIVER ELECTRONIC 3W - 12V DC**

This LED driver will run up to three 1 Watt high power LEDs. The maximum distance from the LEDs to the Driver is approximately 20 meters.

**SPECIFICATION**

Height	42mm
Width	40mm
Depth	21mm
OUTPUT	3 Watts
VOLTAGE	12V DC

PART No. PTDC3350N

**LED DRIVER ELECTRONIC 10W - 12V DC**

This LED driver will run up to eight 1 Watt high power LEDs. The maximum distance from the LEDs to the Driver is approximately 20 meters.

**DIMENSIONS**

Height	115mm
Width	34mm
Depth	19mm
OUTPUT	10 Watts
VOLTAGE	12V DC

PART No. PTDC10350B or DC350mA

**LED DRIVER ELECTRONIC 10W - 24V DC**

The LED driver will run up to eight 24 volt, 1 watt high power LEDs. The maximum distance from the LEDs to the Driver is approximately 20 meters.

**DIMENSIONS**

Height	115mm
Width	34mm
Depth	19mm
OUTPUT	10 watts
VOLTAGE	24V DC

PART No. PTDC1024VB

**LED DRIVER COIL 20W - 12V AC**

This LED driver will run the LED101 fitting. This driver is not water-proof. It can run a maximum of 30 LED101 fittings. The maximum distance from the LEDs to the Driver is approximately 20 meters..

**DIMENSIONS**

Diameter	60mm
Height	66mm
OUTPUT	20 Watts
VOLTAGE	12V AC

PART No. AL20M



**LED DRIVER COIL 50W - 12V AC**

This LED driver will run the LED101 fitting. This driver is IP68 water-proof. It can run a maximum of 150 LED101 fittings. The maximum distance from the LEDs to the Driver is approximately 20 meters..

## SPECIFICATION

Top diameter	80mm
Bottom diameter	98mm
Height	80mm
OUTPUT	50 Watts
VOLTAGE	12V AC
PART No.	WP52C

**LED DRIVER ELECTRONIC 15W - 10V DC**

The maximum distance from the LEDs to the Driver is approximately 20 meters.

## DIMENSIONS

Height	123mm
Width	40mm
Depth	28mm
OUTPUT	15 watts
VOLTAGE	10V DC
PART No.	RN1365

**DIMMABLE LED DRIVER 10W - 12V DC**

This LED Driver is DIMMABLE. It can dim the 1 watt component LEDs. There must be enough load on the circuit to be able to dim, i.e. if you have 3 watts of LEDs on one circuit you must add for example a 60w lamp to meet the dimmers minimum load requirements.

## DIMENSIONS

Height	57mm
Width	89mm
Depth	40mm
OUTPUT	4 Watts
VOLTAGE	12V DC
PART No.	LED DRIVER 12V

**DIMMABLE LED DRIVER 10W - 24V DC**

This LED Driver is DIMMABLE. It can dim the 1 watt component LEDs. There must be enough load on the circuit to be able to dim, i.e. if you have 3 watts of LEDs on one circuit you must add for example a 60w lamp to meet the dimmers minimum load requirements.

## DIMENSIONS

Height	57mm
Width	89mm
Depth	40mm
OUTPUT	4 watts
VOLTAGE	24V DC
PART No.	LED DRIVER 24V



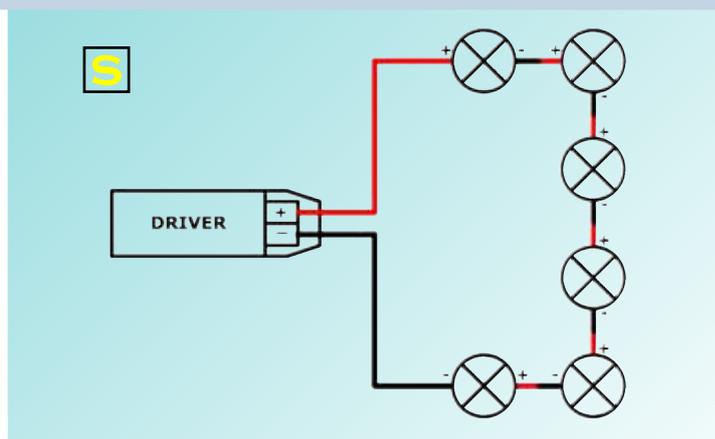
**SERIES WIRING DIAGRAM**

## GENERAL INFORMATION

All drivers that have the 'S' symbol next to them must be wired in series as shown in the diagram above. If the LEDs are not wired correctly it will result in irreparable damage to the LEDs and LED Drivers.

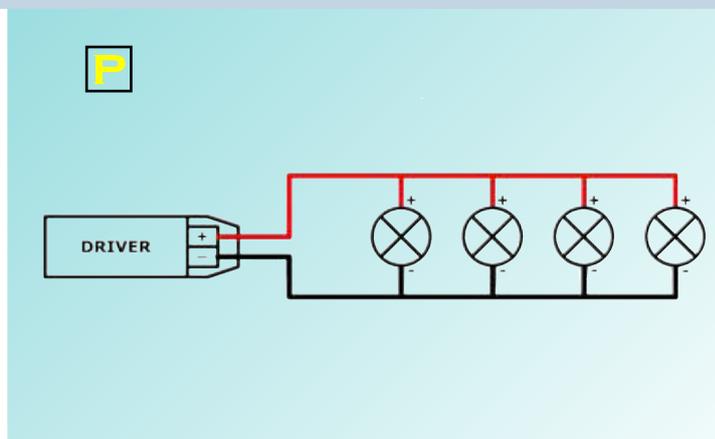
## WIRING INFORMATION

The reason that these LEDs must be wired in series is simple. When you wire in series you achieve a constant current for all components in that circuit. All the LEDs marked with the 'S' symbol require a constant current to function correctly. When the LEDs are wired in series they only require a small voltage, normally between 2-4 volts. No series LED has the same voltage it, they vary from LED to LED.

**PARALLEL WIRING DIAGRAM**

## GENERAL INFORMATION

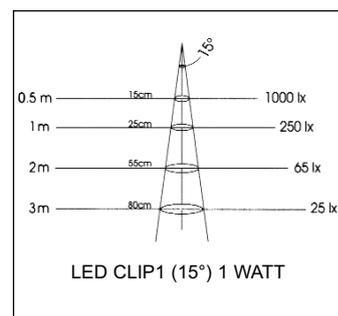
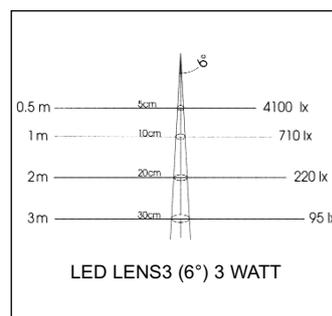
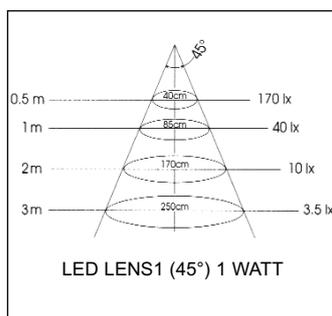
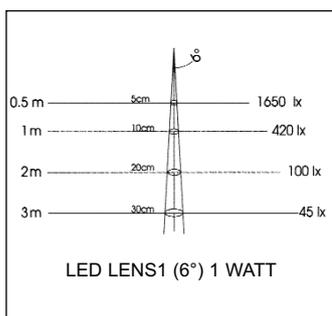
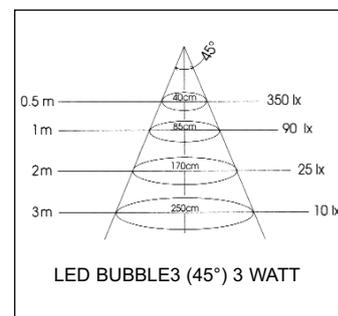
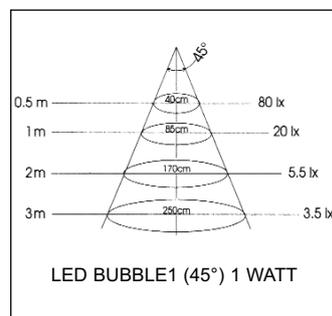
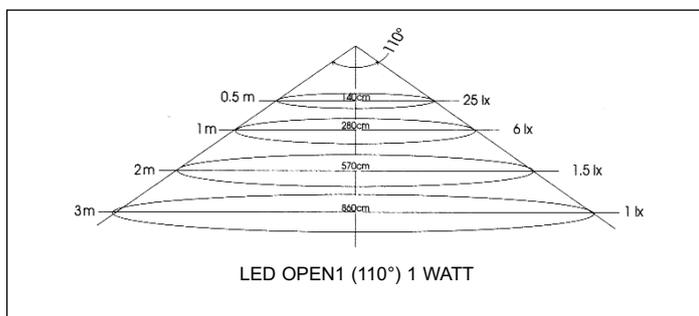
All drivers that have the 'P' symbol next to them must be wired in parallel as shown in the diagram above. If these LEDs are not wired correctly it will result in irreparable damage to the LEDs and LEDs Drivers.

**INFORMATION**

LED lights can be fitted approximately 20 metres away from the driver. This can be a huge benefit, for example when installing a wall light along a staircase you would only have to fit one driver running a series of LEDs. With low voltage you have a maximum distance of only 2 metres from the light to the transformer.

**LUX LEVELS**

Here are the component LED lux levels

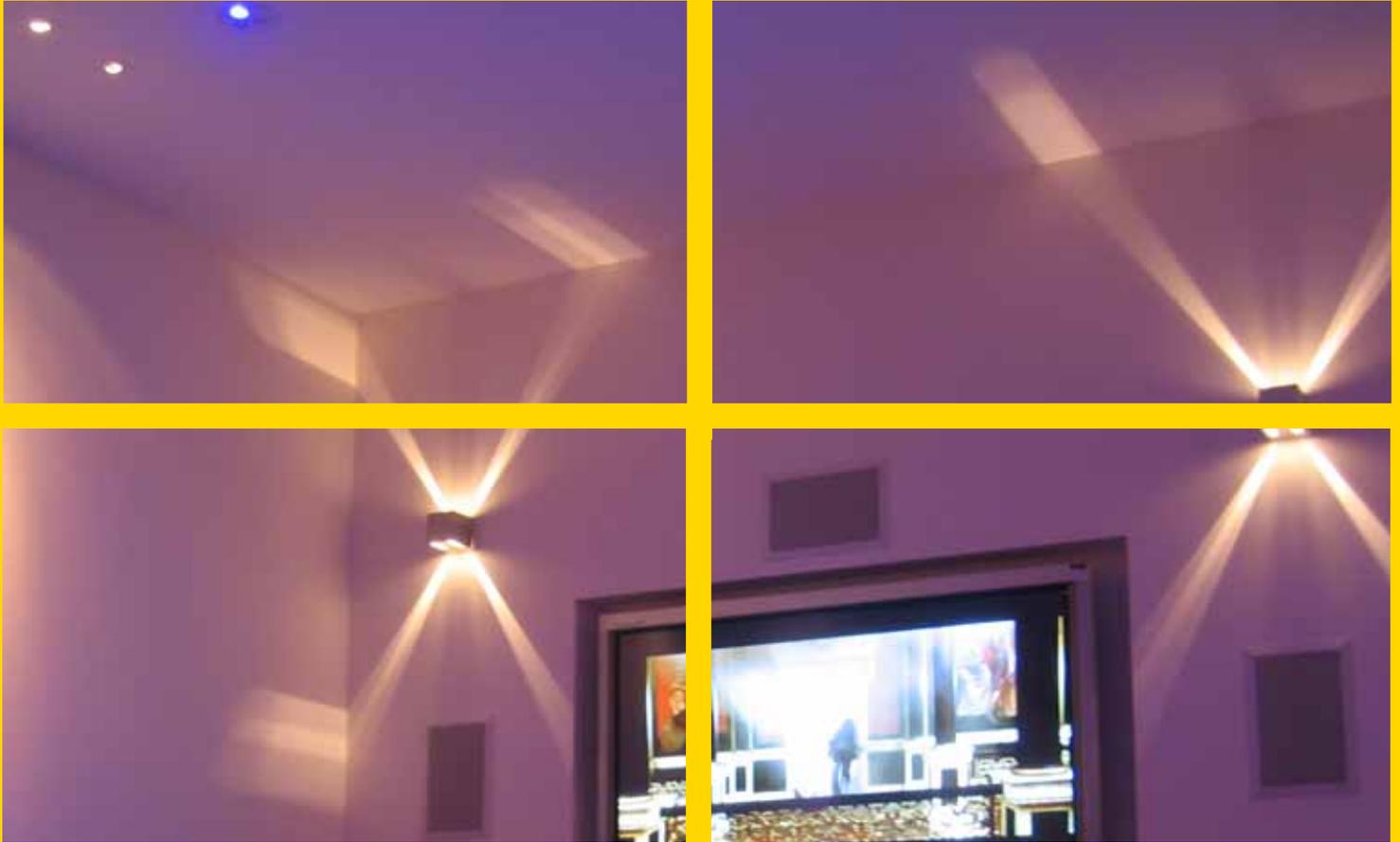


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