



COLLINGWOOD  
LIGHTING

## LED Colour Change by Collingwood Lighting

Mastering Light Together  
[collingwoodlighting.com](http://collingwoodlighting.com)



Create a similar look by using LED5050RGBW  
Courtesy of birchhomes.co.uk





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# Collingwood Lighting colour change LEDs

## Easy to install, easy to control











Our new RGBW range of colour change products provides increased flexibility to improve the atmosphere of indoor and outdoor spaces. The difference between RGB and RGBW is a white LED. Adding white to the colour mix gives the option to create pastel shades as well as vibrant colour choices. RGBW can also be run on white, giving you the option of more natural lighting when required.

To complement our new RGBW products we also offer a new control system range. This makes it easy to create different lighting zones allowing individual control of separate areas using a single hand held control, wall mounted control or a smart device App for Android and IOS.














## RGBW / RGB range at a glance

Use the table below to find the light fittings that give you exactly what you want.

	GL008 RGBW	GL007 RGBW	GL090 RGBW	GL040 CARGB	GL050 RGBW	GL016 RGBW	WL070 RGBW	WL075 CARGB	WL220CARGB / WL221CARGB	UL345 CARGB
										
	Page 20	Page 21	Page 21	Page 21	Page 22	Page 22	Page 24	Page 25	Page 25	Page 26
Dimmable	<input checked="" type="radio"/> *	<input checked="" type="radio"/> *	<input checked="" type="radio"/> *	<input checked="" type="radio"/> *	<input checked="" type="radio"/> *	<input checked="" type="radio"/> *	<input checked="" type="radio"/> *	<input checked="" type="radio"/> *	<input checked="" type="radio"/> *	<input checked="" type="radio"/> *
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IP rated 65+	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
Rotation angle	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
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RGBW	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Bathroom Zone 1	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
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Can drive over	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

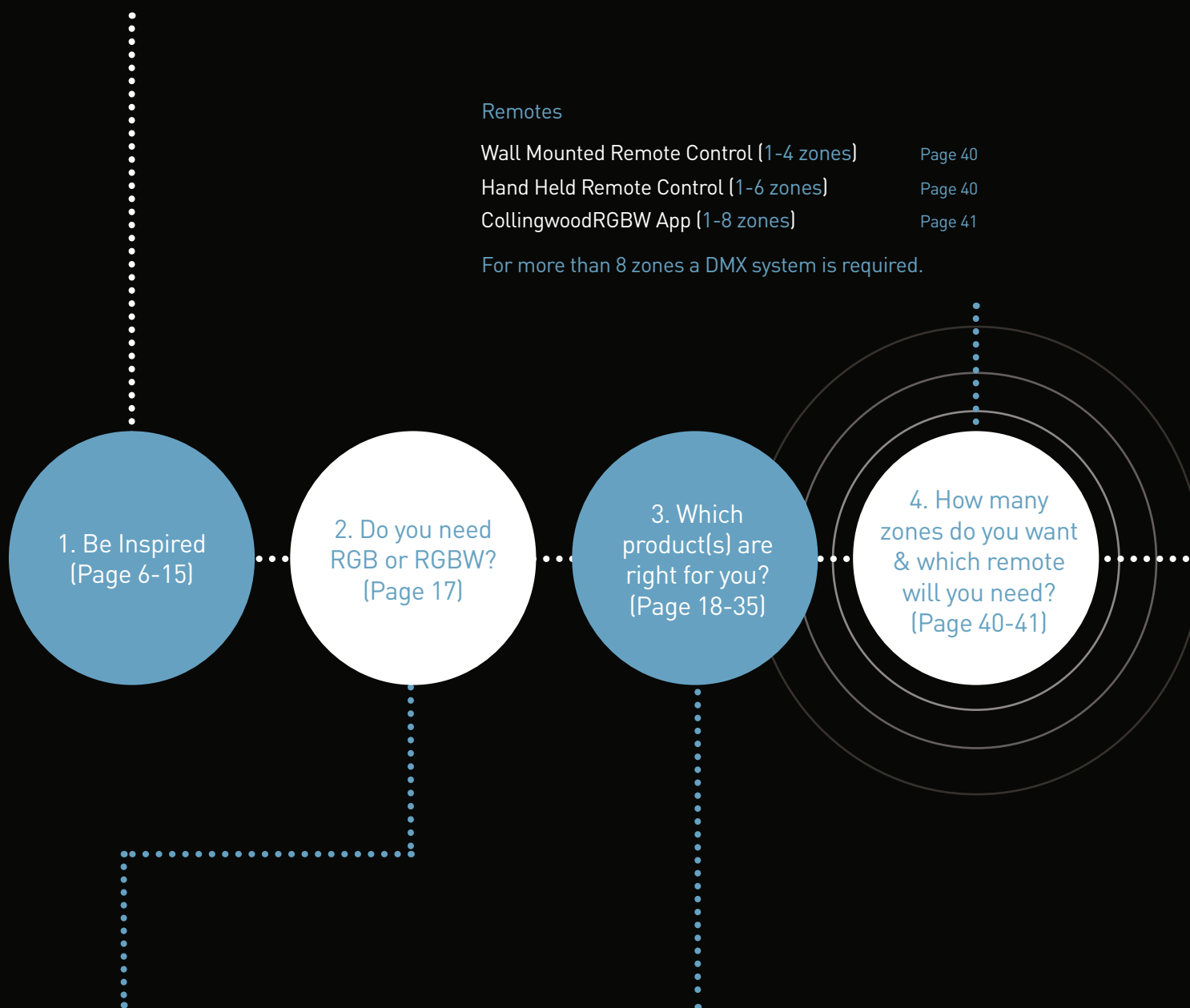


UL346 CARGB	UL347 CARGB	UL030 RGBW	UL010 RGBW	SL220CARGB / SL021CARGB	LL090 RGBW	LL030 CARGB	DL329 RGBW	LED5050 RGBW	LED5050 RGB	STARSTRIP RGB
										
Page 27	Page 27	Page 27	Page 28	Page 29	Page 30	Page 31	Page 31	Page 32	Page 33	Page 33
● *	● *	● *	● *	● *	● *	● *	● *	● *	● *	● *
●	●	●	●	●	● †	● †	○	○	○	○
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\* Driver dependent. Please refer to [collingwoodlighting.com](http://collingwoodlighting.com) or call 01604 495 151  
† Housing dependent



# EIGHT EASY STEPS TO UNDERSTANDING COLOUR CHANGE



## Remotes

Wall Mounted Remote Control (1-4 zones) Page 40

Hand Held Remote Control (1-6 zones) Page 40

CollingwoodRGBW App (1-8 zones) Page 41

For more than 8 zones a DMX system is required.

1. Be Inspired  
(Page 6-15)

2. Do you need  
RGB or RGBW?  
(Page 17)

3. Which  
product(s) are  
right for you?  
(Page 18-35)

4. How many  
zones do you want  
& which remote  
will you need?  
(Page 40-41)



### RGB

Use RGB products to select vivid red, green or blue schemes or mix the three together for even more colour options.



### RGBW

The addition of a white LED in RGBW products provides the option to create pastel shades and white in addition to vivid red, green and blue colours.

## Products

Ground Lights Page 20-23

Wall Lights Page 24-25

Universal Lights Page 26-28

Spike Lights Page 29

Downlights Page 30-31

LED Strip Page 32-35

For a full product list see page 18-19.

## Power Repeaters

PR3011 [Page 42](#)

PR3002 [Page 43](#)

For all constant current products you will need the **PR3011** and for all constant voltage products you will need the **PR3002**.

## 24V Driver

PS1524 [15W Driver](#)

PS5024 [50W Driver](#)

PS10024 [100W Driver](#)

PSIP15024 [150W Driver](#)

You will need a 24V driver to power your power repeater. The number of power repeaters will determine which driver you need.

## Controller / Decoder

C100924 (controller) [Page 44](#)

DMX2102 (decoder) [Page 45](#)

For all installations using 1-8 zones you will need the **C100924** controller. If there is already a DMX control system in place or you plan to use more than 8 zones you will need the **DMX2102** decoder.

We've included a handy fold out notes page at the back of this guide so you can take notes as you read through the guide.

If you need any help our team are on hand on 01604 495 151.

5. Which power repeater do you need & how many of them?  
(Page 42-43)

6. Do you need a controller or a DMX decoder?  
(Page 44-45)

7. What cable will you need?  
(Page 46-49)

8. Place your order  
(Page 56-57)

## 24V Driver

PS1524 [15W Driver](#)

PS5024 [50W Driver](#)

PS10024 [100W Driver](#)

PSIP15024 [150W Driver](#)

You will need a 24V driver to power your controller / decoder. The number of power repeaters will determine which driver you need.

You will need **CF505RGBW** cable to wire your controller / decoder to your power repeaters, and your power repeaters to each other (Page 46-47).

You may also need extension cable.

## Extension Cable

LED 0.75 RGB CABLE [Page 48](#)


LED 3 RGB EXT [Page 49](#)


STARSTRIP RGB 1M EXT [Page 49](#)


CR575RGBW [Page 49](#)


LEDRGBWEXT [Page 49](#)


HERE'S SOMETHING TO INSPIRE YOU  
AND IF YOU WANT TO SEE MORE VISIT OUR  
WEBSITE AND SOCIAL MEDIA PAGES TO  
SEE OUR LATEST STUNNING PROJECTS

 [collingwoodlighting.com](http://collingwoodlighting.com)

 [facebook.com/collingwoodlighting](https://facebook.com/collingwoodlighting)

 [twitter.com/collingwoodLED](https://twitter.com/collingwoodLED)

 [youtube.com/user/collingwoodlighting](https://youtube.com/user/collingwoodlighting)

 [pinterest.com/collingwoodLED](https://pinterest.com/collingwoodLED)



# LOURENZOS SCOTLAND

CREATE THIS  
LOOK BY USING...



LED5050RGBW

Page 32



LED5050RGB

Page 33

# AAKASH RESTAURANT CLECKHEATON

CREATE THIS  
LOOK BY USING...



LL030CARGB

Page 31



LED5050RGB

Page 33










WATCH THE VIDEO OF THIS  
EXCITING COLOUR CHANGE  
INSTALLATION

 [youtube.com/user/collingwoodlighting](https://youtube.com/user/collingwoodlighting)



# THE HALSTON APARTHOTEL CARLISLE

CREATE THIS  
LOOK BY USING...



LED5050RGBW

Page 32



# LOURENZOS SCOTLAND

CREATE THIS  
LOOK BY USING...



LED5050RGBW

Page 32



LED5050RGB

Page 33













# PRIVATE RESIDENCE

CREATE THIS  
LOOK BY USING...



UL030RGBW

Page 27



GL016RGBW

Page 22



# KEY TERMS

## REMOTE

A device that controls colour in each zone by transmitting a radio signal to a controller.

## CONTROLLER

A controller receives a radio frequency signal from a remote and distributes that signal to power repeaters via a 5 core ribbon cable.

## CYCLE

LEDs in a zone continually changing from one pre-set colour to another automatically. 10 pre-set cycles available.

## DMX CONTROL SYSTEM

A control system used for larger numbers of zones. It is used to select the colour that you want for each zone. The signal is transmitted through cable.

## DECODER

A decoder receives a signal from a DMX system, decodes it and distributes that signal to power repeaters via a 5 core ribbon cable.

## POWER REPEATER

Receives the signal from the controller and then operates the colour change LEDs.

## ZONE

A designated area (often a room) that a group of colour change LEDs will be effected via a remote or control system.

## DRIVER

A 24V DC power supply. Controllers, decoders and power repeaters all require a 24V DC power supply.

## RGB & RGBW SYMBOLS

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Products displaying this symbol are RGB products.



Products displaying this symbol are RGBW products.

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## WARRANTY

Collingwood Lighting offers a 3 or 5 year extended warranty on all products carrying the G3 or G5 symbol.



The G3 symbol means that a 3 year extended warranty is available on the product.



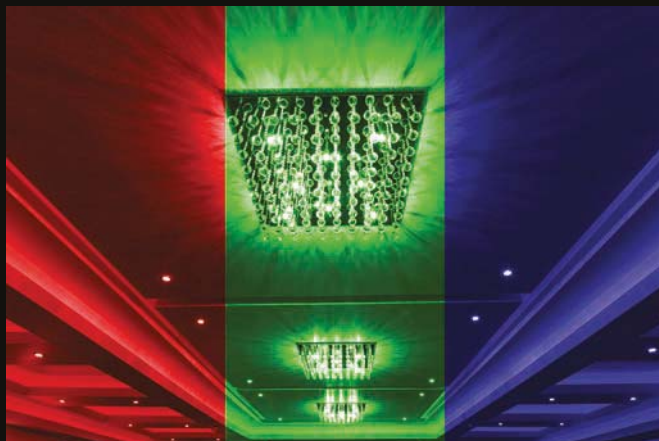
The G5 symbol means that a 5 year extended warranty is available on the product.

You can register either by contacting the customer service team on 01604 495151 or by visiting [collingwoodlighting.com](http://collingwoodlighting.com).

All applications, once accepted and processed will receive confirmation and a unique reference number for future claims.

## RGB & RGBW

Use RGB products to select vivid red, green or blue schemes or mix the three together for even more colour options.



RGB

The addition of a white LED in RGBW products provides the option to create pastel shades and white in addition to the vivid red, green and blue colours.

RGBW can also be run on white, giving you the option of more natural lighting when it is required.



RGBW

# PRODUCTS

## RGB & RGBW RANGE



### GROUND LIGHTS

VERSATILE, GRACEFUL,  
ELEGANT

**GL008RGBW** Page 20  
Twin drive over colour  
change LED ground light

**GL007RGBW** Page 21  
Drive over colour change LED  
ground light with white LED

**GL090RGBW** Page 21  
High output LED colour  
change ground light

**GL040CARGB** Page 21  
Colour change LED ground  
light

**GL050RGBW** Page 22  
Colour change LED ground /  
marker light

**GL016RGBW** Page 22  
LED colour change ground  
light



### WALL LIGHTS

FUNCTIONAL, DECORATIVE,  
STYLISH

**WL070RGBW** Page 24  
Up / down LED colour change  
wall light

**WL075CARGB** Page 25  
High output LED colour  
change wall light

**WL220CARGB** Page 25  
Colour change LED wall light

**WL021CARGB** Page 25  
Colour change LED wall light



### UNIVERSAL LIGHTS

FLEXIBLE, MODEST,  
ENCOMPASSING

**UL345CARGB** Page 26  
110° Colour change LED wall  
washing light bar

**UL346CARGB** Page 27  
25x6° Colour change LED  
wall washing light bar

**UL347CARGB** Page 27  
45° Colour change LED wall  
washing light bar

**UL030RGBW** Page 27  
Colour change LED light

**UL010RGBW** Page 28  
Colour change LED light



All constant  
current (CC)  
products will need  
PR3011 power  
repeaters

All constant  
voltage (CV)  
products will need  
PR3002 power  
repeaters

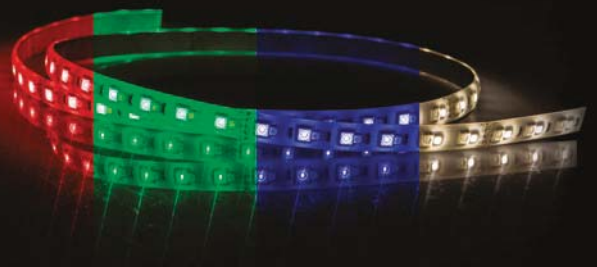
CC



CC



CV



## SPIKE LIGHTS

PRACTICAL, FLEXIBLE,  
EFFORTLESS

## DOWNLIGHTS

CONSUMMATE,  
RESOURCEFUL, SUPERIOR

## STRIP LIGHTS

VERSATILE, STRIKING,  
DISCREET

**SL220CARGB** Page 29  
Colour change LED spike  
light

**SL021CARGB** Page 29  
Colour change LED spike  
light

**DL329RGBW** Page 31  
Colour change LED injector  
with white LED

**LL090RGBW** Page 30  
Colour change LED light

**LL030CARGB** Page 31  
Colour change LED unit

**LED5050RGBW** Page 32  
Colour change self adhesive  
LED flexible strip with  
white LED

**LED5050RGB** Page 33  
Colour change self adhesive  
LED flexible strip

**STARSTRIP RGB** Page 33  
Fixed colour change  
LED strip

GL050RGBW

Photo Credit: Lumiere



# GROUND LIGHTS

CC Constant Current

GL008RGBW

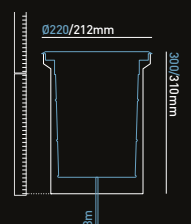
TWIN DRIVE OVER COLOUR CHANGE  
LED GROUND LIGHT



This is the powerful 24W colour-change ground light that goes where the traffic is heaviest and the features you want to illuminate are highest. With twin LED units independently tiltable to 20°, you can direct the light towards the features that count.

The 10mm toughened glass cover withstands feet and vehicles (max 15mph), while the IP67 rating keeps out the worst of the British weather.

Containing two RGBW LED lights, is more than enough colour to keep trees and other lofty features of drives and car parks cheerfully visible all year long. The addition of the white LED means you can flood the scene with functional white light for evenings when practicality is more important than atmosphere.







It is not advised to put RGB & RGBW products in the same zone as the colours will not always match.

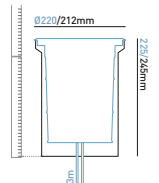
## GL007RGBW

### DRIVE OVER COLOUR CHANGE LED GROUND LIGHT WITH WHITE LED

For bold outdoor colour effects, this 12W ground light is unbeatable. The LED tilts up to 20° so you can throw light back against trees, walls, or other architectural or ornamental features. No one need ever suffer direct glare.

For complete versatility, the white LED gives you the option to switch to a functional, see-exactly-where-you're-going, white light.

Since this ground light is part of our drive-over range (max speed 15mph), there's no limits on where you place it. With a strong glass cover and stainless-steel cover ring that support up to 2000kg, it will take the weight of a car.

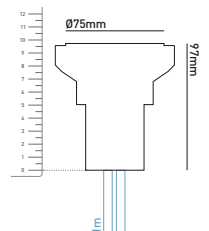


## GL090RGBW

### HIGH OUTPUT LED COLOUR CHANGE GROUND LIGHT

No garden need ever be monochrome with this powerful 12W ground light. With four colour-change LEDs (including white), it gives you just about every colour you can imagine, including the softest pastels and the purest bright white.

The 5mm toughened glass will take your weight, which makes this ground light ideal for patios and paths. Since the product is made from marine-grade stainless steel with an IP67 rating, you could instead light up your bathroom or swimming pool.

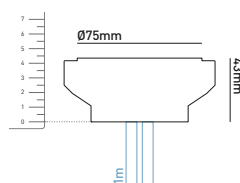


## GL040CARGB

### COLOUR CHANGE LED GROUND LIGHT

For imaginative lighting effects involving shrubs or low-level architectural features, this 3W walk-over ground light is ideal. Using Red, Green and Blue LEDs this ground light will bring out the subtle detail of your garden.

Made from marine-grade stainless steel casing and an IP67 rating, this ground light takes on a life of its own in the most inhospitable corners of your garden. Place a network of them across your premises, and you'll see the familiar in a completely different light after dark.





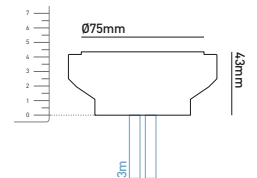
It is not advised to put RGB & RGBW products in the same zone as the colours will not always match.

## GL050RGBW

### COLOUR CHANGE LED GROUND / MARKER LIGHT

This is the ground light that gives you the most subtle colour changes for indoor and outdoor use. Mount an array of them on the ground or on walls.

The inclusion of RGBW, a frosted glass cover, and a wide 100° beam angle gives this walk-over ground light the ability to flood the scene with soft light. Installed in a wall, it's ideal for illuminating pathways. Recessed in the ground, it has the ability to fill a shrub or border with colour.

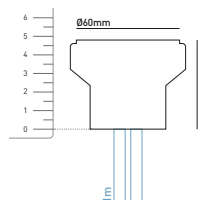


## GL016RGBW

### LED COLOUR CHANGE GROUND LIGHT

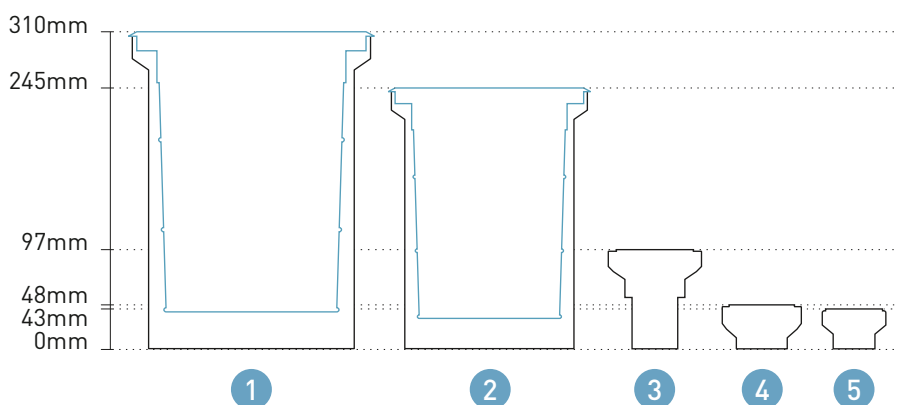
Ground lights like this are popular for a reason: they provide the pools of colour that bring the outdoors to life – and you can put them wherever you like. They'll light up steps and pathways, the floor of your wet room, the boards of your decking, or a distant corner of a car park.

Marine-grade stainless steel is what gives this ground light its ability to shine even when the ground puddles over. A 5mm toughened glass cover lets you walk all over it, and the RGBW LEDs give you the option to create as much colour as you like. With the white LED, you can go further and bathe your grounds in pure white light, which is practical as well as attractive.



## SIZE COMPARISON

### GROUND LIGHTS



- 1 GL008RGBW
- 2 GL007RGBW
- 3 GL090RGBW
- 4 GL040CARGB
- 4 GL050RGBW
- 5 GL016RGBW



GL090RGBW

Photo © Janine Pattison Studios





Barnsley Metrodome Leisure Centre  
WL070RGBW



# WALL LIGHTS

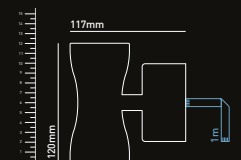
CC Constant Current

## WL070RGBW UP / DOWN LED COLOUR CHANGE WALL LIGHT



This 24W wall-mounted colour-change LED is practical and versatile. By throwing light upwards towards the ceiling and downwards towards the floor, it provides a much wider zone of illumination. As well as giving you the entire range of colours, including the most subtle pastels, you can choose pure white light for the times when practicality is more important than atmosphere.

With anodised aluminium casing, this light suits the most sophisticated environments. Used singly, it brings out the detail of a wall, used as an array; they turn a wide expanse of wall into a series of colourful zones.







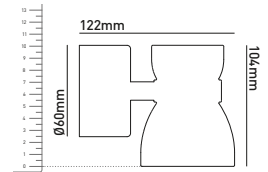
It is not advised to put RGB & RGBW products in the same zone as the colours will not always match.

## WL075CARGB

### HIGH OUTPUT LED COLOUR CHANGE WALL LIGHT

Bring walls to life with this stylish anodised aluminium wall unit. It washes a section of the wall in RGB colour. The beam angle is 38° for a broader reach. Whether you point the beam up or down will depend on the effect you want to create. Complete with wall fixings.

Although the LEDs in RGB colour-change fittings can be run together to produce white light, the units are not designed to work this way. Using them as white lights shortens the product life.

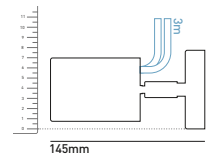


## WL220CARGB / WL021CARGB

### COLOUR CHANGE LED WALL LIGHT

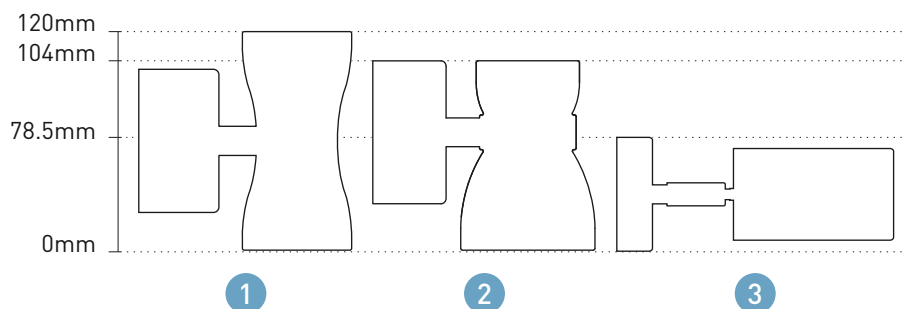
These are the colour-change, wall-mounted LED lights to illuminate the details that count. You can swivel the head and tilt it through 90° to direct the 3W beam towards any object that takes your fancy.

With an IP65 rating, they're suitable for indoor or outdoor use. You could use one to light a doorway, the underside of a covered walkway, or the ground on which visitors walk. Or you could just point it at a statue, a favourite shrub, or a telling architectural detail. If you have something that's worth bathing in colour, this is the light to do it.



## SIZE COMPARISON

### WALL LIGHTS



- 1 WL070RGBW
- 2 WL075CARGB
- 3 WL220CARGB
- 3 WL021CARGB

Bradford University  
UL356CARGB & UL030RGBW



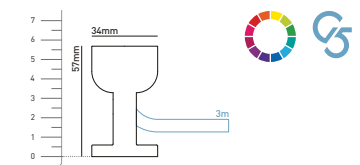
# UNIVERSAL LIGHTS

CC Constant Current

## UL345CARGB 110° COLOUR CHANGE LED WALL WASHING LIGHT BAR

This wall-washing light bar brings out the best of architectural features. It throws a swathe of RGB colour-changing light across the area you want to highlight. With a broad 110° beam angle, external IP rating and high-power Luxeon LEDs, this is the versatile wall-washing light bar for general use. 180° tilt, removable feet attach anywhere along the underside.

Although the LEDs in RGB colour-change fittings can be run together to produce white light, the units are not designed to work this way. Using them as white lights shortens the product life. Use RGBW products if you wish to use white light.







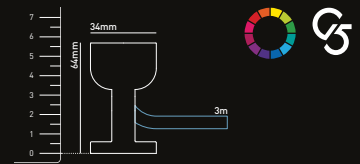
It is not advised to put RGB & RGBW products in the same zone as the colours will not always match.

## UL346CARGB

### 25X6° COLOUR CHANGE LED WALL WASHING LIGHT BAR

For the farthest throw of colour on the most stunning of architectural features, you need a wall-washing bar with asymmetric 25x6° lenses. The narrow beam bathes distant details in constantly changing colours. Unit features high-power Luxeon LEDs, 180° tilt, removable feet attach anywhere along the underside.

Although the LEDs in RGB colour-change fittings can be run together to produce white light, the units are not designed to work this way. Using them as white lights shortens the product life. Use RGBW products if you wish to use white light.

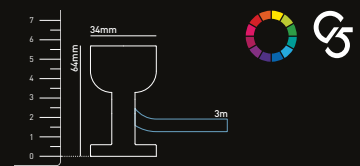


## UL347CARGB

### 45° COLOUR CHANGE LED WALL WASHING LIGHT BAR

The ability to bathe a swathe of wall with a tightly controlled strip of light brings out the best of its architectural detail. This tiltable wall-washing bar lets you direct a 45° colour-change beam at the exact feature you want to highlight. It's bright and precise, and suitable for any location, indoors or out. Unit features high-power Luxeon LEDs, 180° tilt, removable feet attach anywhere along the underside.

Although the LEDs in RGB colour-change fittings can be run together to produce white light, the units are not designed to work this way. Using them as white lights shortens the product life. Use RGBW products if you wish to use white light.

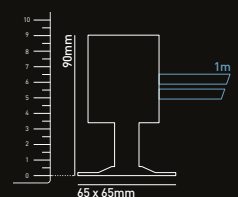


## UL030RGBW

### COLOUR CHANGE LED LIGHT

No feature of your building or your grounds is beyond the reach of this supremely versatile colour-change wall light. The combination of a simple mounting plate and a 360° swivel head means that you can place it virtually anywhere – from a low-level wall to the top of a tower – and point the light in any direction.

As well as giving you the entire range of colours, including the most subtle pastels, you can choose pure white light for the times when practicality is more important than atmosphere.





It is not advised to put RGB & RGBW products in the same zone as the colours will not always match.

## UL010RGBW

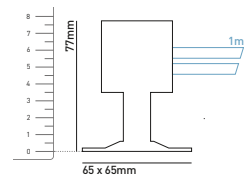
### COLOUR CHANGE LED LIGHT



This swivel-mounted universal light could be all you need to create a lasting impression. The RGBW LED provides enough illumination for nearby objects to show their true colours – or indeed any colour that you choose to give them – while the 360° swivel action means those objects could be absolutely anywhere.

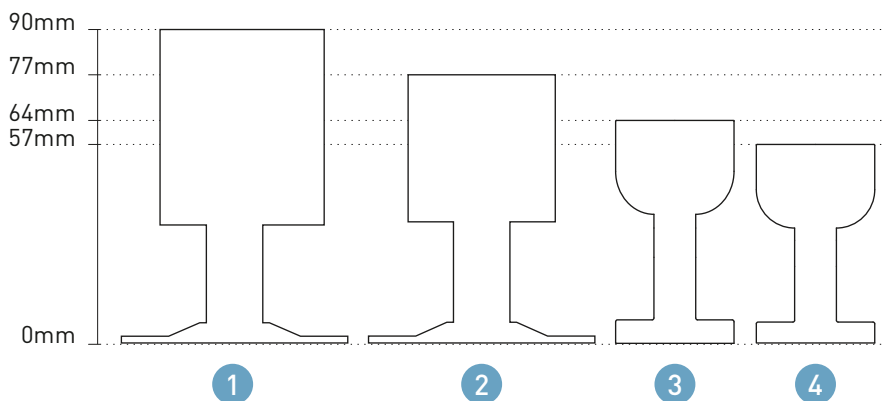
Use this easily mounted luminaire for water features, for paths, for high-level architectural details, or for any aspect of the built environment that's worth illuminating.

The white LED is a useful feature that teams safety and practicality with the light's ability to provide a full spectrum of colours.



## SIZE COMPARISON

### UNIVERSAL LIGHTS



- 1 UL030RGBW
- 2 UL010RGBW
- 3 UL346CARGB
- 3 UL347CARGB
- 4 UL345CARGB

Royal Armouries Museum, Leeds  
UL347CARGB





SL021CARGB

Photo Credit: © Janine Pattison Studios



# SPIKE LIGHTS

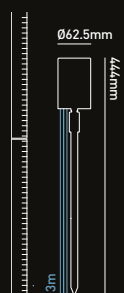
CC Constant Current

## SL220CARGB / SL021CARGB COLOUR CHANGE LED SPIKE LIGHT



The spike light is by far the easiest unit to place in a garden. All you need is some soft ground near the feature you want to illuminate. That makes this 3W colour change light with 30cm spike the most versatile colour-change luminaire for outdoor use.

Because there's no permanent fitting, you can spin the unit round to point in any direction. And you can tilt the head to any angle between vertical and horizontal for pinpoint accuracy. If you get bored with your lighting layout or you want to redesign your garden, you can pull out your spike lights and place them somewhere else. This is the luminaire to choose if you're the sort of person who likes to ring the changes.





N'Dulge, Scotland  
LL090RGBW



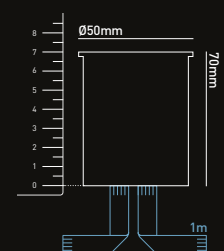
# DOWNLIGHTS

CC Constant Current

## LL090RGBW COLOUR CHANGE LED LIGHT

This colour-change downlight is good news in every respect. Retrofitting it into an existing 50mm MR16 fitting will transform your lighting and save you money. This replacement unit is a winner in every respect: it uses less energy, it requires zero maintenance, and it changes a dull old lighting scheme into something ultra-modern.

As well as giving you the entire range of colours, including the most subtle pastels, you can choose pure white light for the times when practicality is more important than atmosphere.





It is not advised to put RGB & RGBW products in the same zone as the colours will not always match.

## LL030CARGB

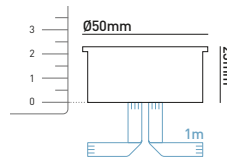
### COLOUR CHANGE LED UNIT



If you want to retrofit colour-change LED lights into MR16 fittings with shallow housings, this is the 3W luminaire you need. It has easy Plug & Play connections for quicker installations.

As well as transforming the way you light your premises with colour, you'll be reducing your energy consumption, saving money, and cutting down on maintenance.

The biggest advantage is that you can change your lighting scheme without damaging your decor. It's a simple and cost-effective way to upgrade a building.



## DL329RGBW

### COLOUR CHANGE LED INJECTOR WITH WHITE LED



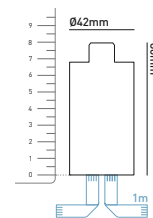
This lightweight fibre-optic RGBW light source gives you greater design flexibility and huge cost savings. Since you can install it almost anywhere, even in ceiling voids, you'll need shorter runs of fibre because you'll be closer to the zone you want to illuminate. Better still, the life of a maintenance-free LED light source is measured in years not months. The unit illuminates bundles of 30 fibres measuring 1m (**FIBRE LED 1/30**) or 2m (**FIBRE LED 2/30**). No cooling fan needed.

As well as giving you the entire range of colours, including the most subtle pastels, you can choose pure white for the times when practicality is more important than atmosphere.

DL329RGBW

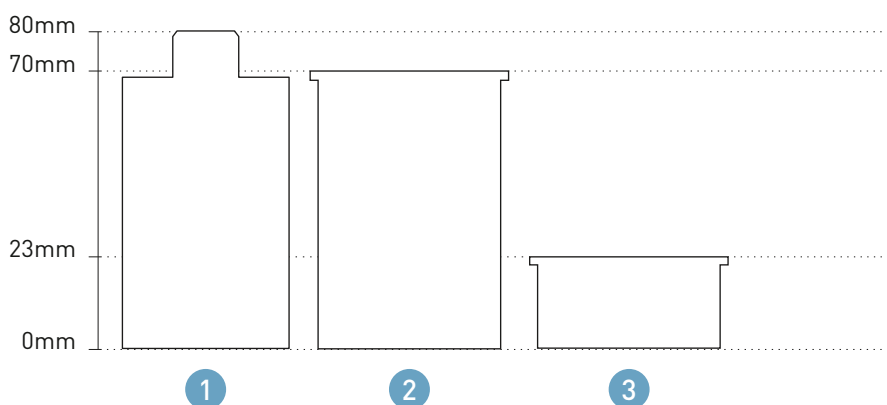


FIBRE LED 1/30  
FIBRE LED 2/30



## SIZE COMPARISON

### DOWNLIGHTS



- 1 DL329RGBW
- 2 LL090RGBW
- 3 LL030CARGB



Southend Civic Centre, Southend-on-Sea  
LED5050RGBW & LED5050RGB



# LED STRIP

CV Constant Voltage

## LED5050RGBW

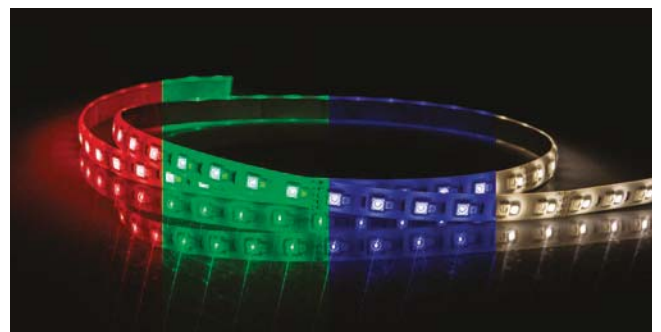
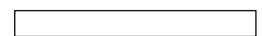
COLOUR CHANGE SELF ADHESIVE LED FLEXIBLE STRIP  
WITH WHITE LED

With colour-change strip lights, you can let your imagination run free. Just about any lighting scheme you want to create is possible. Interior designers typically run them out of sight in recesses, in ceilings, around stairs, and near shelving.

These 15W RGBW strips include white LEDs, which gives you many more colour options. By combining white with other colours, you can produce the softest pastels. You can even produce bright white light when maximum visibility is more important than atmosphere.

Available in bespoke lengths or on a 5m reel.

100mm(min)







It is not advised to put RGB & RGBW products in the same zone as the colours will not always match.

## LED5050RGB

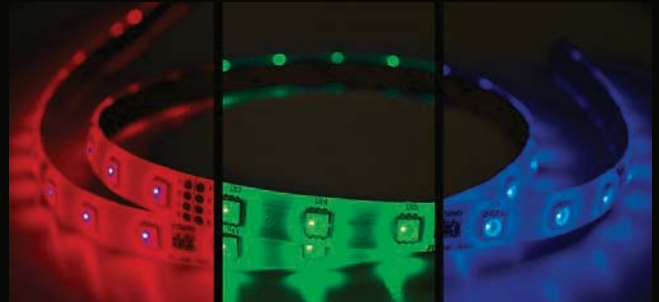
### COLOUR CHANGE SELF ADHESIVE LED FLEXIBLE STRIP

To transform your bar or club into a world of magic and colour, install RGB colour-change strip lights. With simple connections.

Strip lights let you bring out the structural details of a design scheme or highlight elements of the structure. Or you can create your own entirely free-form structures with the strips hidden in small recesses.

Available in bespoke lengths or on a 5m reel.

125mm(min)



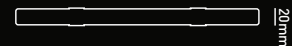
## STARSTRIP RGB

### FIXED COLOUR CHANGE LED STRIP

These rigid strips of colour-change LEDs bring concealed glamour to any commercial or domestic environment. Hidden just out of sight, they outline ceilings, bar counters, shelving, and walkways with a blaze of colour. Use them wherever you want to introduce colour and form, and in any environment where occasional, frequent, or gentle changes of colour will create a dynamically changing atmosphere.

The strips come in four lengths; 320mm (**STARSTRIP/32 RGB**), 620mm (**STARSTRIP/62 RGB**), 920mm (**STARSTRIP/92 RGB**), 1220mm (**STARSTRIP/122 RGB**) and Plug & Play connectivity makes them easy to install.

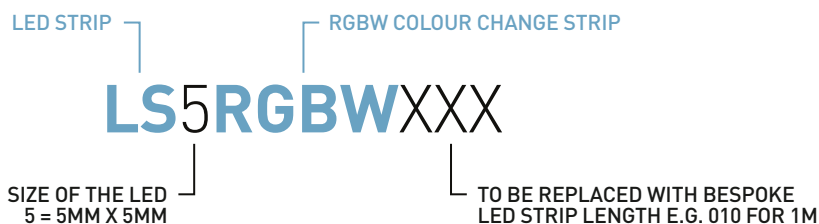
320/620/920/1220mm



Eight Members Club, London

LED5050RGB

## LED5050RGBW BESPOKE PARTCODES



Supplied in customised lengths (0.1m up to 4.9m).

Priced in 0.1m increments after the first metre. Also available in a 5m reel. **XXX** to be replaced by bespoke length, see below for full list of bespoke partcodes.

USE THE TABLE BELOW AND SELECT YOUR METERAGE TO DETERMINE THE PARTCODE YOU NEED TO PLACE YOUR ORDER

LS5RGBWXXX (partcode for bespoke lengths of LED5050RGBW)

0.1m	LS5RGBW001	1.4m	LS5RGBW014	2.7m	LS5RGBW027	4m	LS5RGBW040
0.2m	LS5RGBW002	1.5m	LS5RGBW015	2.8m	LS5RGBW028	4.1m	LS5RGBW041
0.3m	LS5RGBW003	1.6m	LS5RGBW016	2.9m	LS5RGBW029	4.2m	LS5RGBW042
0.4m	LS5RGBW004	1.7m	LS5RGBW017	3m	LS5RGBW030	4.3m	LS5RGBW043
0.5m	LS5RGBW005	1.8m	LS5RGBW018	3.1m	LS5RGBW031	4.4m	LS5RGBW044
0.6m	LS5RGBW006	1.9m	LS5RGBW019	3.2m	LS5RGBW032	4.5m	LS5RGBW045
0.7m	LS5RGBW007	2m	LS5RGBW020	3.3m	LS5RGBW033	4.6m	LS5RGBW046
0.8m	LS5RGBW008	2.1m	LS5RGBW021	3.4m	LS5RGBW034	4.7m	LS5RGBW047
0.9m	LS5RGBW009	2.2m	LS5RGBW022	3.5m	LS5RGBW035	4.8m	LS5RGBW048
1m	LS5RGBW010	2.3m	LS5RGBW023	3.6m	LS5RGBW036	4.9m	LS5RGBW049
1.1m	LS5RGBW011	2.4m	LS5RGBW024	3.7m	LS5RGBW037	5m (reel)	LS5RGBW050
1.2m	LS5RGBW012	2.5m	LS5RGBW025	3.8m	LS5RGBW038		
1.3m	LS5RGBW013	2.6m	LS5RGBW026	3.9m	LS5RGBW039		

## LED5050RGB BESPOKE PARTCODES



Supplied in customised lengths (0.125m up to 4.875m).

Priced in 0.125m increments after the first metre. Also available in a 5m reel. **XXX** to be replaced by bespoke length, see below for full list of bespoke partcodes.

USE THE TABLE BELOW AND SELECT YOUR METERAGE TO DETERMINE THE PARTCODE YOU NEED TO PLACE YOUR ORDER

LS5RGBXXX (partcode for bespoke lengths of LED5050RGB)

0.125m	LS5RGB001	1.375m	LS5RGB013	2.625m	LS5RGB026	3.875m	LS5RGB038
0.25m	LS5RGB002	1.5m	LS5RGB015	2.75m	LS5RGB027	4m	LS5RGB040
0.375m	LS5RGB003	1.625m	LS5RGB016	2.875m	LS5RGB028	4.125m	LS5RGB041
0.5m	LS5RGB005	1.75m	LS5RGB017	3m	LS5RGB030	4.25m	LS5RGB042
0.625m	LS5RGB006	1.875m	LS5RGB018	3.125m	LS5RGB031	4.375m	LS5RGB043
0.75m	LS5RGB007	2m	LS5RGB020	3.25m	LS5RGB032	4.5m	LS5RGB045
0.875m	LS5RGB008	2.125m	LS5RGB021	3.375m	LS5RGB033	4.625m	LS5RGB046
1m	LS5RGB010	2.25m	LS5RGB022	3.5m	LS5RGB035	4.75m	LS5RGB047
1.125m	LS5RGB011	2.375m	LS5RGB023	3.625m	LS5RGB036	4.875m	LS5RGB048
1.25m	LS5RGB012	2.5m	LS5RGB025	3.75m	LS5RGB037	5m (reel)	LS5RGB050

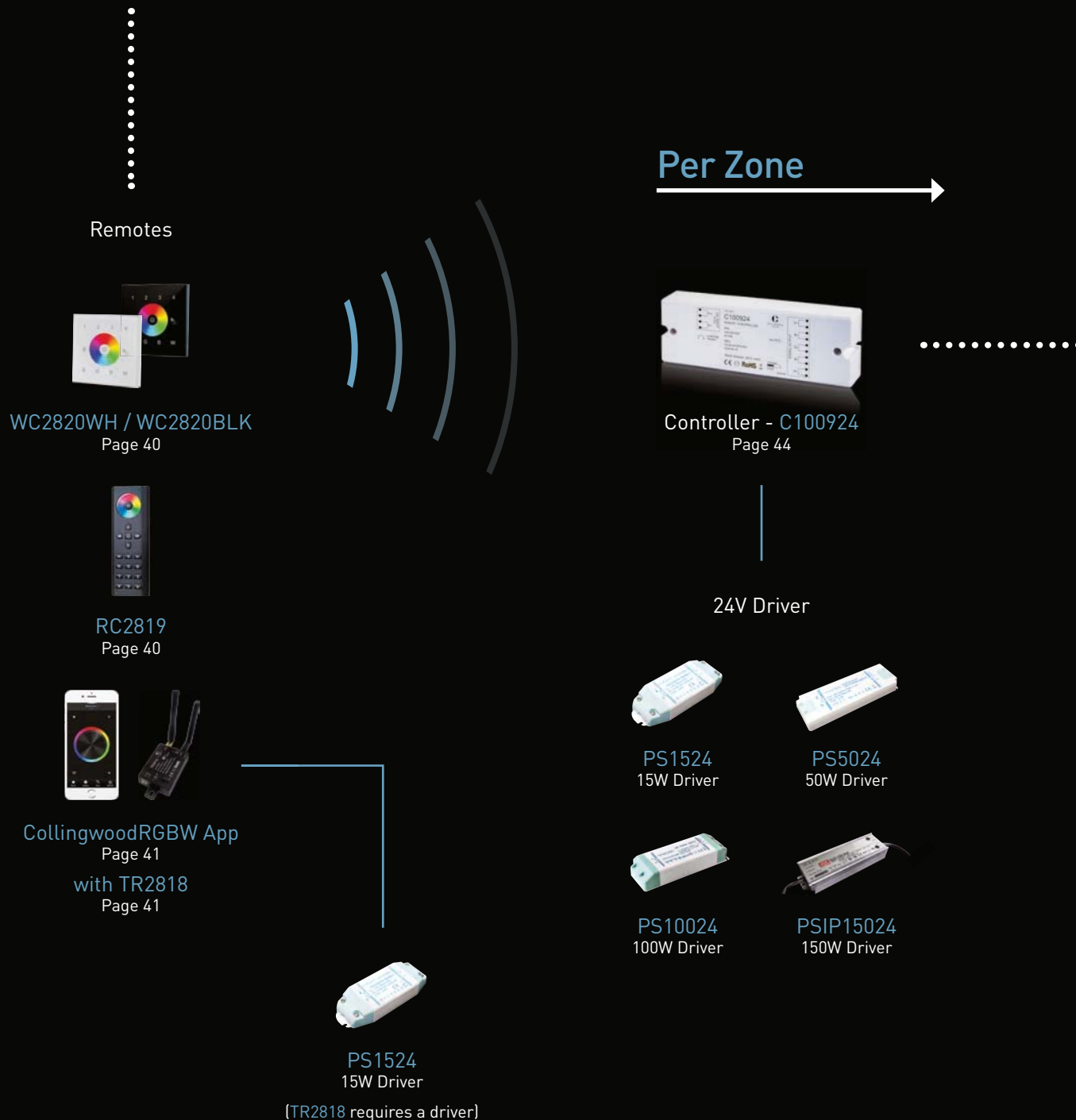


Southend Civic Centre, Southend-on-Sea  
Create a similar look by using LED5050RGBW





# COMPLETE PROCESS WITH C100924 REMOTE TO PRODUCT



- ❗ Don't forget you will need extra CF505RGBW cable for every power repeater you use.
- ❗ Don't put RGB & RGBW products in the same zone as colours will not always match.

## 24V Driver



PS1524  
15W Driver



PS5024  
50W Driver



PS10024  
100W Driver



PSIP15024  
150W Driver

Products  
Page 18-35



Power repeater - PR3011  
Page 42



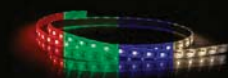
Power repeater - PR3011  
Page 42



Power repeater - PR3011  
Page 42



Power repeater - PR3002  
Page 43





# COMPLETE PROCESS WITH C100924 THINGS TO CONSIDER

## Remotes - Page 40-41

How many zones / rooms do you need?

Which remote covers the number of zones you need?

## Controller - Page 44

You will need one per zone.

What wattage driver do you need to power your controller / decoder?

## Power Repeaters - Page 42-43

Are you using constant voltage or constant current products?  
(Use PR3002 for constant voltage products and PR3011 for constant current products)

You will need CF505RGBW cable to connect each of your power repeaters.

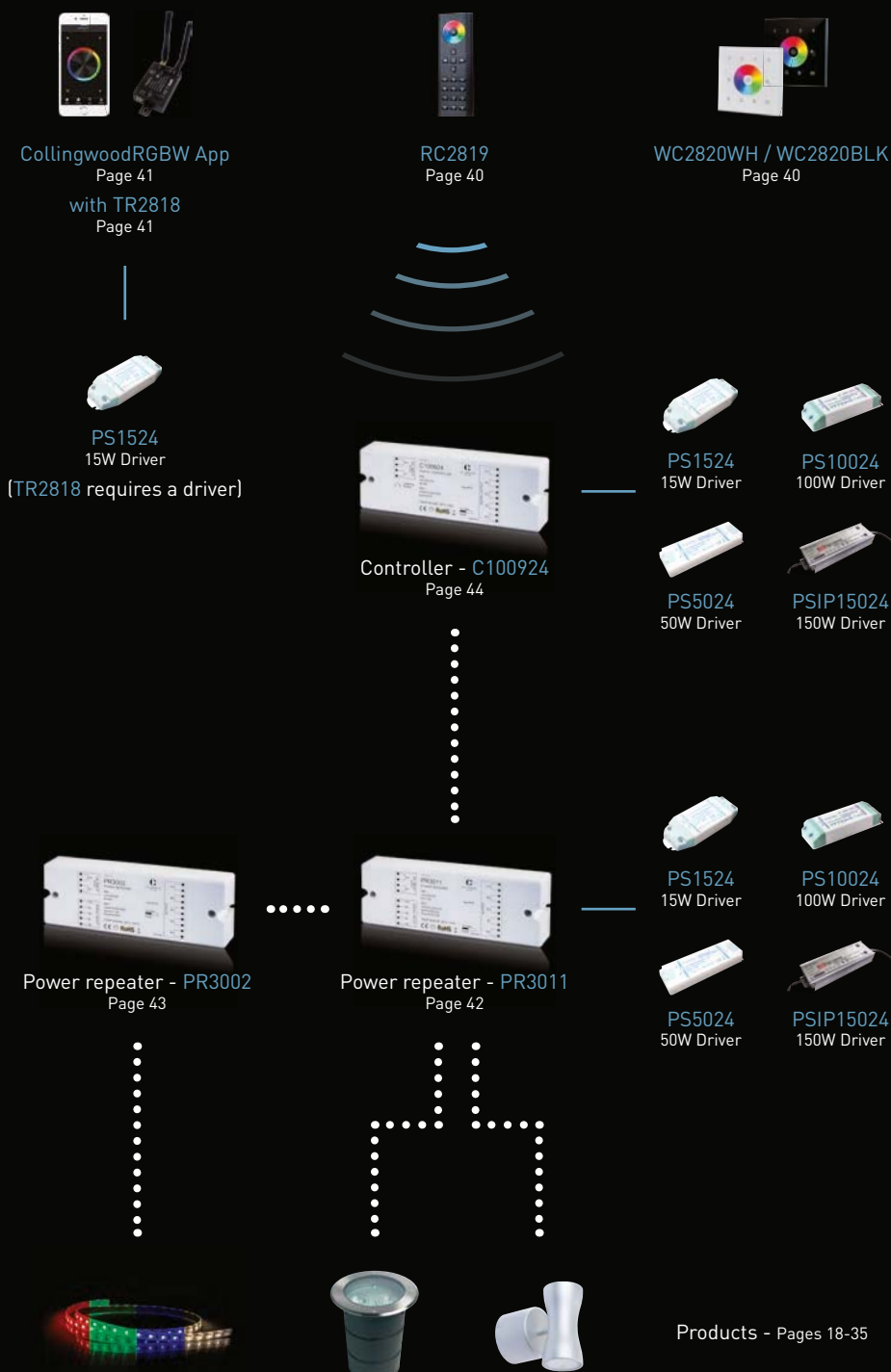
What wattage driver(s) do you need to power your power repeaters?

## Products - Page 20-35

What products do you want?

You will need cable to connect your products to your power repeaters.

Avoid using RGB and RGBW products in the same zone as the colour may not always match.



# COMPLETE PROCESS WITH DMX2102 THINGS TO CONSIDER

## Control System - Page 40-41

Is there already a DMX control system in place?

Are you using more than 8 zones / rooms?

## Decoder - Page 45

You will need one per zone

What wattage driver do you need to power your controller / decoder?

## Power Repeaters - Page 42-43

Are you using constant voltage or constant current products?  
(Use PR3002 for constant voltage products and PR3011 for constant current products)

You will need CF505RGBW cable to connect each of your power repeaters.

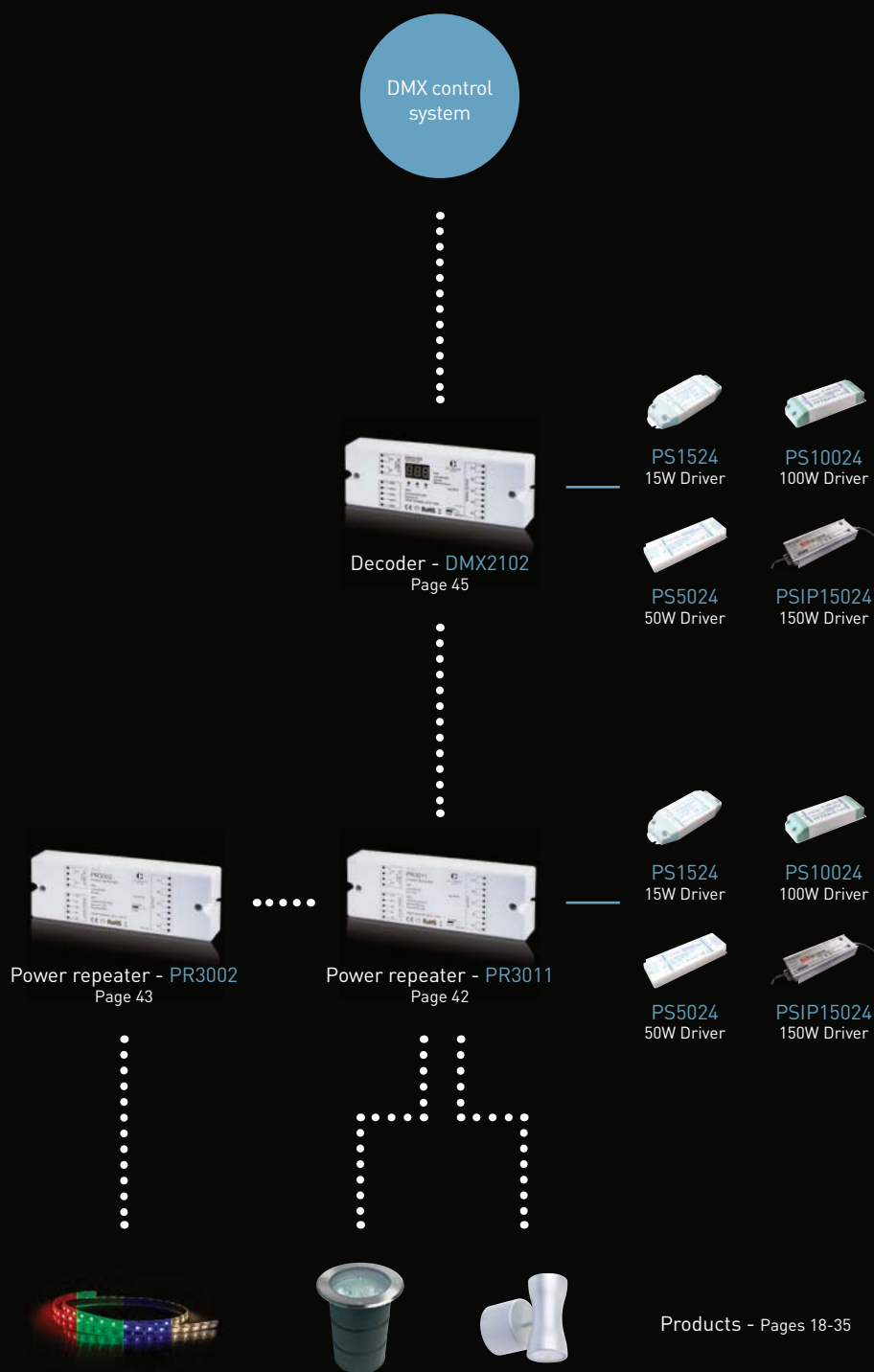
What wattage driver(s) do you need to power your power repeaters?

## Products - Page 20-35

What products do you want?

You will need cable to connect your products to your power repeaters.

Avoid using RGB and RGBW products in the same zone as the colour may not always match.



Per Zone



# ZONES REMOTES

A zone can cover any space you choose. They are often assigned to rooms so that you can have different colour settings for each room and be able to adjust them completely independently from one another using your remote control. For example...

HOUSE FRONT



ZONE 1

LIVING ROOM



ZONE 2

KITCHEN



ZONE 3

BEDROOM 1



ZONE 4

Remember you can assign any room to any zone number

Once you have decided how many zones you require, you will need to select a remote that is capable of covering that number of zones. You are able to use multiple remotes as long as they are all capable of covering the number of zones you have.

Wall Mounted Remote Control - WC2820BLK / WC2820WH - 1-4 zones

Hand Held Remote Control - RC2819 - 1-6 zones

CollingwoodRGBW App - with TR2818 [Requires 15W driver] - 1-8 zones

Zone 1 / 1 Room

Zone 2 / 2 Rooms

Zone 3 / 3 Rooms

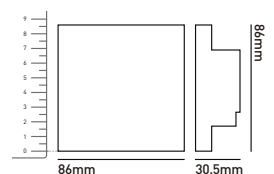
Zone 4 / 4 Rooms

## WC2820WH / WC2820BLK

### WALL MOUNTED RGBW REMOTE CONTROL

Controlling Collingwood Lighting's RGB & RGBW ranges could not be easier with this wall mounted remote control. Using radio frequency removes the need to connect to the controller for a cleaner and quicker installation. By simply touching the screen you can select solid colours or start a cycle to change the atmosphere.

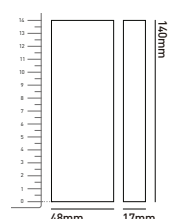
Select up to 4 zones to give individuality to each room.



## RC2819

### HANDHELD REMOTE CONTROL

Controlling your RGB & RGBW lights on the move could not be easier with this remote control. Select solid colours or start a colour changing cycle to create the perfect atmosphere. From just one remote control you can select up to 6 different rooms and change the colours individually to suit. A maximum of 8 remote controls can be used and programmed to store your favourite colours.





Remember if you need any help our team are on hand on **01604 495 151**.

BEDROOM 2



ZONE 5

GARDEN



ZONE 6

DINING ROOM



ZONE 7

STAIRS



ZONE 8

If you require more than 8 zones you will use a DMX control system

Zone 5 / 5 Rooms

Zone 6 / 6 Rooms

Zone 7 / 7 Rooms

Zone 8 / 8 Rooms

## COLLINGWOODRGBW APP

IPHONE, IPAD & ANDROID APP FOR WIRELESS CONTROL

Control your RGB & RGBW products with your smart device for up to 8 zones. By simply touching the screen you can select solid colours, start a cycle or control your lights via a sound to light option. The App can be downloaded for free on Android and IOS.

**Note:** Use in conjunction with **TR2818**.

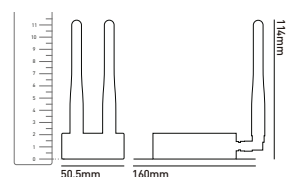


## TR2818

Wi-Fi TO RF TRANSMITTER

Controlling your RGB & RGBW products with your phone, computer or tablet could not be easier with the TR2818. Simply add this unit in to your Collingwood Lighting colour change installation and select millions of colours in comfort. Using the CollingwoodRGBW App simply connect directly to the TR2818 or via your own wi-fi.

**Note:** The TR2818 requires a 15W driver such as the **PS1524**.



# POWER REPEATERS

## WHICH ONE & HOW MANY?

Per Zone

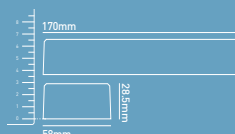
Now you know which products you are going to use and how many of them you will be using in each zone, you can establish which power repeaters you need and work out how many of them you will require.

**For all constant current products use the PR3011.**

### PR3011

350mA RGB & RGBW POWER REPEATER

A 350mA power supply for the RGB & RGBW product range. Simply wire up to 100 to a C100924 for a quick and simple colour change installation, giving you the ability to have as many as 600 luminaires per zone.



Calculate how many **PR3011**s you need for the products you have.

Product Code	Product Family	Max Per PR3011
DL329RGBW	Downlight	6
GL007RGBW	Ground Light	2
GL008RGBW	Ground Light	1
GL016RGBW	Ground Light	6
GL040CARGB	Ground Light	6
GL050RGBW	Ground Light	6
GL090RGBW	Ground Light	2
LL030CARGB	Downlight	6
LL090RGBW	Downlight	2
SL220CARGB / SL021CARGB	Spike Light	6
UL010RGBW	Universal Light	6
UL030RGBW	Universal Light	2
UL345CARGB	Universal Light	1
UL346CARGB	Universal Light	1
UL347CARGB	Universal Light	1
WL070RGBW	Wall Light	1
WL075CARGB	Wall Light	2
WL220CARGB / WL021CARGB	Wall Light	6

For example...

If you had selected these products for your zone.



Using the table to the left we can see that you would need to spread them over the following power repeaters.



This means you would need to order the following...



**!** Don't forget you'll need 300mm of CF505RGBW cable for every power repeater you use.

Don't forget your 24V driver to power your **power repeater**.

The products will be powered by power repeaters that require a 24V driver. The table shows you which driver you need for the number of power repeaters you are using.

If you require more than 5 power repeaters you will need another driver.

Number of Power Repeaters	Wattage Driver Needed	Product (Driver)
1	50W	PS5024
2 - 3	100W	PS10024
4 - 5	150W	PSIP15024

If we were to continue the example...

In the example we calculated that we need 3 x PR3011. Using the table to the left we can see that we need a 100W driver. This means that you will need to order the following...







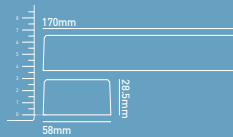
Remember if you need any help our team are on hand on 01604 495 151.

## For all constant voltage products (LED strip) use the PR3002.

### PR3002

#### 24V RGB & RGBW POWER REPEATER

A 24v power supply for the RGB & RGBW product range. Simply wire up to 100 to a C100924 for a quick and simple colour change installation, giving you the ability to have as many as 1000 meters of LED strip per zone.



## Calculate how many PR3002s you need for the products you have and which driver you need to power your power repeaters.

#### LED5050RGBW - Bespoke lengths available

Length of Strip per Power Repeater	up to 2m per PR3002	up to 5m per PR3002	up to 10m per PR3002
Wattage Driver Needed	50W	100W	150W
Product (Driver)	PS5024	PS10024	PSIP15024

#### LED5050RGB - Bespoke lengths available

Length of Strip per Power Repeater	up to 5m per PR3002	up to 10m per PR3002
Wattage Driver Needed	50W	100W
Product (Driver)	PS5024	PS10024

#### STARSTRIP RGB - Comes in set lengths

STARSTRIP/122 RGB [1220mm]	STARSTRIP/92 RGB [920mm]	STARSTRIP/62 RGB [620mm]	STARSTRIP/32 RGB [320mm]
12W per 1220mm length	9W per 920mm length	6W per 620mm length	3W per 320mm length
Max of 8 per PR3002 1 = 15W driver (PS1524) 2-4 = 50W driver (PS5024) 5-8 = 100W driver (PS10024)	Max of 10 per PR3002 1 = 15W driver (PS1524) 2-5 = 50W driver (PS5024) 6-10 = 100W driver (PS10024)	Max of 16 per PR3002 1-2 = 15W driver (PS1524) 3-8 = 50W driver (PS5025) 9-16 = 100W driver (PS10024)	Max of 24 per PR3002 1-5 = 15W driver (PS1524) 6-16 = 50W driver (PS5025) 17-24 = 100W driver (PS10024)

#### For example...

If you had selected these products for your zone.



LED5050RGB



STARSTRIP/122 RGB

12m 4x1220mm

Using the tables to the left we can see that 10m of LED5050RGB strip would fully load a PR3002 so the remaining 2m of strip would need another PR3002 (using just under 50% of it). The STARSTRIP can fit onto one PR3002 (using 50% of it). So the remaining LED5050RGB strip and STARSTRIP could fit onto one PR3002.

1st PR3002



10m LED5050RGB

2nd PR3002



4 x STARSTRIP/122 RGB  
1m LED5050RGB

This means you would need to order the following...



x2

PR3002

We are using 2 x PR3002. As you can see from the tables you will need a 100W driver for 10m of LED5050RGB. The remaining 2m will need a 50W driver. The STARSTRIP will also need a 50W driver. This means you will need the following...



PR3002

x2



PS10024

x2

! For all strip, you can put up to 5m on one circuit per PR3002, but for 5-10m you will need to put the strip on two circuits per PR3002 (see products' instructions).

! Don't forget you'll need 300mm of CF5050RGBW cable for every power repeater you use.

# CONTROLLERS

## WHICH ONE & WHAT POWER SUPPLY?

Per Zone

A controller is the device that receives a signal from your remote or DMX control system and then makes the LEDs match the colour you have set. You need one controller in each zone to adjust all of the LEDs in that zone.

You will have already decided how many zones you are going to have. If you are having 8 or less zones then you will need the C100924 controller.

**For 1 - 8 zones use the C100924 controller (1 controller per zone).**

### C100924

#### RGB & RGBW CONTROLLER

The C100924 is essential to complete any Collingwood Lighting colour change installation. Receiving the signal from your remote control or device using radio frequency (RF) makes this a fast, simple and flexible method of achieving atmospheric lighting. By removing the need for complicated DMX systems, multi zone colour change can be achieved. Use the C100924 for each zone up to a maximum of 8. The C100924 works with both the PR3011 and the PR3002 power repeaters.



**Don't forget your 24V driver to power your controller.**

Now that you know how many power repeaters you have in each zone you will be able to use the table to work out which 24V driver you will need to power your controller.

If you are using more than 100 power repeaters in a zone contact Collingwood for further information on 01604 495 151.

Number of Power Repeaters	Wattage Driver needed	Product (Driver)
1 - 10	15W	PS1524
11 - 30	50W	PS5024
31 - 60	100W	PS10024
61 - 100	150W	PSIP15024



**PS1524**  
15W Driver



**PS5024**  
50W Driver



**PS10024**  
100W Driver



**PSIP15024**  
150W Driver



Remember if you need any help our team are on hand on 01604 495 151.

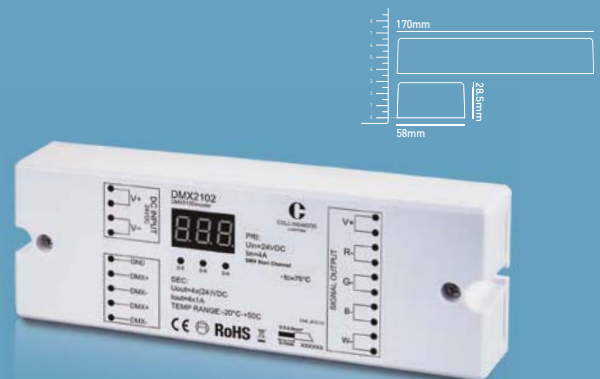
For when using a DMX control system only

**For 9+ zones use the DMX2102 decoder (1 decoder per zone).**

## DMX2102

### RGB & RGBW DMX DECODER

Use the DMX2102 when using a DMX512 controller only. As part of your Collingwood Lighting colour change installation simply replace the C100924 controller with the DMX2102 and create up to 512 channels, perfect for the larger installations and when an existing DMX controller is used. The C100924 works with both the PR3011 and the PR3002 power repeaters.



**Don't forget your 24V driver to power your decoder.**

Now that you know how many power repeaters you have in each zone you will be able to use the table to work out which 24V driver you will need to power your decoder.

If you are using more than 100 power repeaters in a zone contact Collingwood for further information on 01604 495 151.

Number of Power Repeaters	Wattage Driver needed	Product (Driver)
1 - 10	15W	PS1524
11 - 30	50W	PS5024
31 - 60	100W	PS10024
61 - 100	150W	PSIP15024



**PS1524**  
15W Driver



**PS5024**  
50W Driver



**PS10024**  
100W Driver



**PSIP15024**  
150W Driver



# WIRING YOUR INSTALLATION USING CF505RGBW

Per Zone

Now that you know which controller you are using and how many power repeaters, you will be able to calculate how much cable you need.

**CF505RGBW is the primary cable needed to wire your installation.**

## What is CF505RGBW?

The 5 core ribbon cable is used to transfer signal from the controller to the power repeaters and then in turn the LEDs will work accordingly. Each core or colour ie R=red, G=green carries a signal down that cable only, so if you press red on your remote, the RF signal will be sent to the controller, the controller will then send a signal down the red cable to the power repeater and the red LED will be illuminated in the product.

## What length CF505RGBW do I need?

You will need 300mm of CF505RGBW cable for every power repeater you use. CF505RGBW can only be ordered in 1m lengths. You can then cut your 1m reel to 300mm.

## Where do I use the CF505RGBW?

1

You will need to use CF505RGBW to connect the controller or decoder to the first power repeater. This will allow the signal received by the controller from the remote to be transmitted to the power repeater.

2

CF505RGBW will also be used to connect the first power repeater to the second power repeater, and then from the second power repeater to the third power repeater, and so on.

!

Don't forget that you will need a CF505RGBW cable for every power repeater that you use. The cable comes in 1m lengths, but we recommend using 300mm per power repeater.

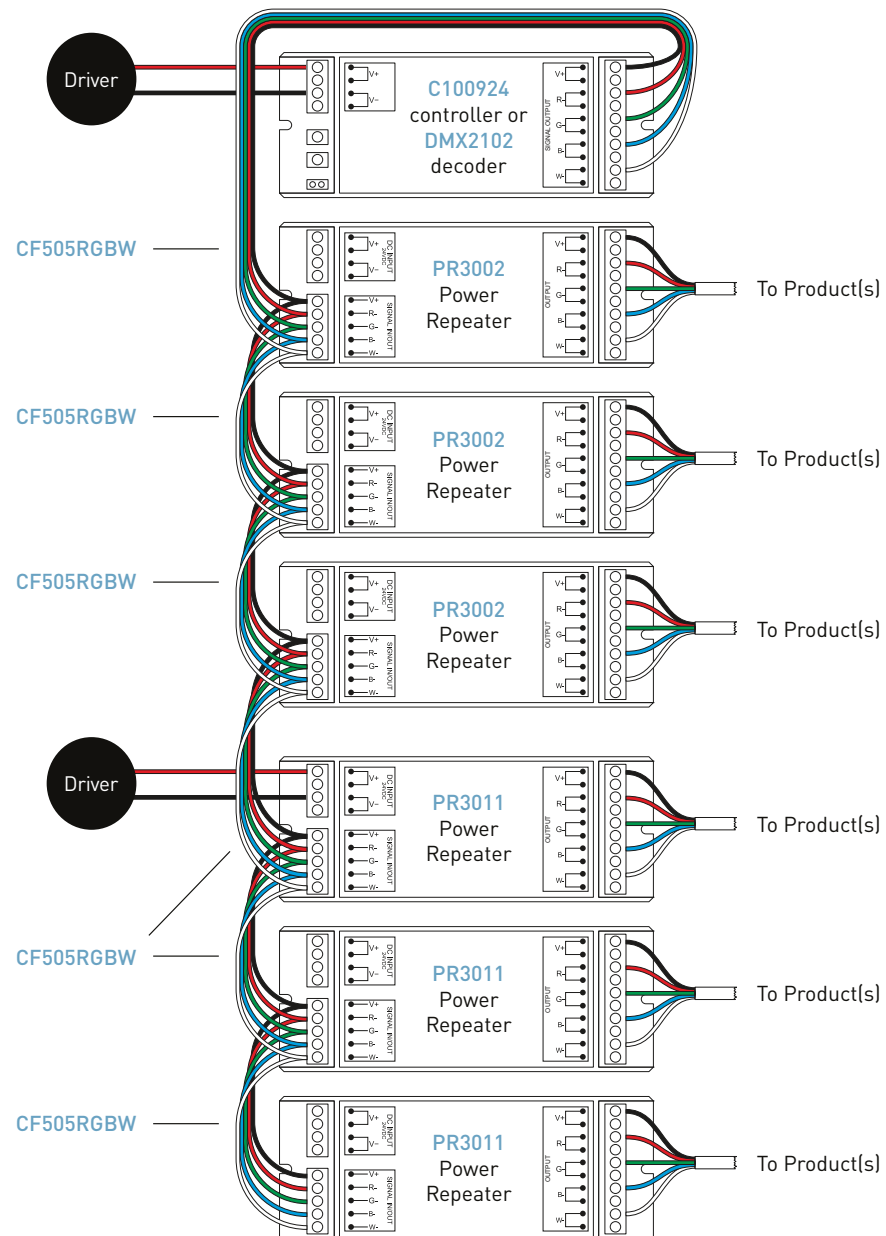
## Does CF505RGBW work for RGB as well as RGBW?

Yes. You can use CF505RGBW cable for both RGB and RGBW installations. The white output cable would not be used in RGB installations.



Remember if you need any help our team are on hand on 01604 495 151.

This diagram shows you how to wire your controller / decoder and power repeaters.



The diagram above shows you how the **CF505RGBW** cable runs from the controller (or decoder) to the first power repeater. You can also see how the **CF505RGBW** cable runs in parallel from power repeater to power repeater.

It is worth noting that as shown in the diagram you can wire **PR3002**'s and **PR3011**'s to the same controller (see instructions supplied with products).

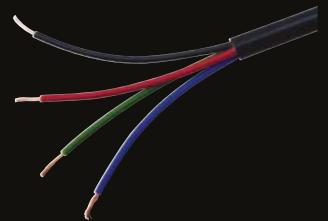
# ACCESSORIES

## CABLE & JUNCTION BOXES

Allows outdoor wiring from product to product & power repeater

Allows outdoor wiring from product to product & power repeater

For extending cable connecting RGB products to each other & to power repeaters



### JB3

#### WATERPROOF JUNCTION BOX

A small and discreet waterproof housing for wiring Collingwood Lighting's RGB & RGBW range of products. Comprising of 1 input and 1-8 outputs and containing a 5 way terminal block really helps outdoor wiring to be quick and easy.



### JB7

#### 5 POLE SCREW TERMINAL IP68 CONNECTOR

To make a good waterproof colour change installation use the JB7, an IP68 5 Pole inline connector for Collingwood Lighting's 350mA RGBW range. For a secure and waterproof seal use cable with an outside diameter of 7mm - 10.5mm. Max conductor size 4mm.



### LED RGB 0.75 CABLE

#### 4-CORE PVC CABLE

This four-core cable simplifies the extension of cable between the 350mA RGB lights and the power repeater. Supplied by the metre or as part of a reel, positioning the lights over longer distances can easily be achieved.

Colour-coded inner sheaths make connections straightforward. Outer diameter: 6mm.





Remember if you need any help our team are on hand on **01604 495 151**.

For extending cable connecting RGB products to each other & to power repeaters

For extending cable connecting STARSTRIP to each other & to power repeaters

For extending cable connecting RGBW products to each other & to power repeaters

For extending cable connecting RGBW products to each other & to power repeaters



### LED 3 RGB EXT COLOUR CHANGE EXTENSION LEAD FOR LED PRODUCTS

These Plug & Play 1m extension leads make the wiring of RGB colour-change installations so much easier. Use multiple extension leads when increasing the distance beyond the 1 metre already provided.

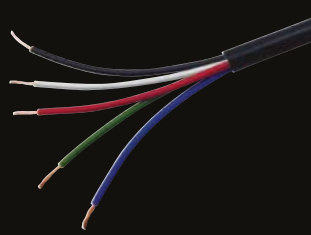
Complete each circuit with the provided blanking plug.

Suitable for: LL030CARGB & WL075CARGB.



### STARSTRIP RGB 1M EXT CABLE EXTENSION

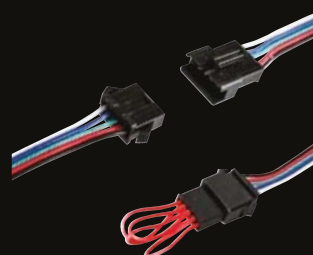
These Plug & Play 1m extension leads make the wiring of STARSTRIP RGB colour-change installations so much easier. Use multiple extension leads when increasing the distance beyond the 300mm already provided.



### CR575RGBW 5-CORE PVC CABLE

This five-core cable simplifies the extension of cable between the 350mA RGBW lights and the power supply. Supplied by the metre or as part of a reel positioning the lights over longer distances can easily be achieved.

Colour-coded inner sheaths make connections straightforward. Outer diameter: 7.1mm.



### LEDRGBWEXT COLOUR CHANGE EXTENSION LEAD

These new Plug & Play 1m extension leads make the wiring of RGBW colour-change installations so much easier. Use multiple extension leads when increasing the distance beyond the 1 metre already provided.

Complete each circuit with the provided blanking plug.

Suitable for: LL090RGBW, WL070RGBW & DL329RGBW.

# INSTALLATION EXAMPLES

## WHAT YOU WOULD NEED IF...

1

This example is for one zone of a three zone installation.  
The remote would cover all of the zones.

### ROOM



Living Room  
Zone 2 of 3

### PRODUCTS



GL090RGBW x3  
UL030RGBW x3

### REMOTE



WC2820BLK x1

2

This example is for one zone of a five zone installation.  
The remote would cover all of the zones.

### ROOM



Bedroom  
Zone 3 of 5

### PRODUCT



LED5050RGBW - 12m

### REMOTE



RC2819 x1



Remember if you need any help our team are on hand on 01604 495 151.

## CONTROLLER



C100924 x1



DRIVER



PS1524 x1

## POWER REPEATERS



PR3011 x3



DRIVER



PS10024 x1

CABLE



CF505RGBW x3 (300mm)

## SET UP



- Press & hold the 'learning switch' on the **C100924**.
- Press the number '2' button on the **WC2820BLK**.
- Immediately after that run your finger around the colour wheel.
- You are connected now.

## TO USE



Using the **WC2820BLK** press the number button of the zone that you would like to control and then run a finger around the colour wheel until the LEDs start to change colour.

## CONTROLLER



C100924 x1



DRIVER

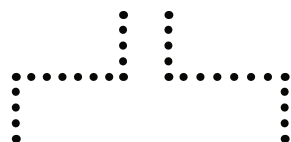


PS1524 x1

## POWER REPEATERS



PR3002 x2

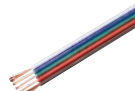


DRIVER



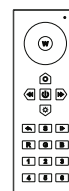
PS5024 x1  
PSIP15024 x1

CABLE



CF505RGBW x2 (300mm)

## SET UP



- Press & hold the 'learning switch' on the **C100924**.
- Press the number '3' button on the **RC2819**.
- Immediately after that run your finger around the colour wheel.
- You are connected now.

## TO USE



Using the **RC2819** press the number button of the zone that you would like to control and then run a finger around the colour wheel until the LEDs start to change colour.



# INSTALLATION EXAMPLES

## WHAT YOU WOULD NEED IF...

3

This example is for one zone of an eight zone installation. The remote would cover all of the zones.

### ROOM



Kitchen  
Zone 7 of 8

### PRODUCTS



UL346CARGB x3  
LED5050RGB - 10m

### REMOTE



CollingwoodRGBW App x1

### DRIVER



PS1524 x1

### WiFi TRANSMITTER



TR2818 x1

4

This example is for one zone of an eleven zone installation. The DMX control system would cover all of the zones.

### ROOM



Dining Room  
Zone 11 of 15

### PRODUCT



WL075CARGB x4

### CONTROL SYSTEM

DMX  
CONTROL  
SYSTEM

DMX Control System x1



Remember if you need any help our team are on hand on 01604 495 151.

## CONTROLLER



C100924 x1



DRIVER



PS1524 x1

## POWER REPEATERS



PR3011 x3  
PR3002 x1



DRIVER



PS10024 x1  
PSIP15024 x1

CABLE



CF505RGBW x4 (300mm)

## SET UP



- Select EASYCOLOUR23xxx on your smart devices' Wi-Fi settings.
- Using the app select the TR2818.
- In the app select your chosen room, then press the 'learning switch' on the C100924.
- Immediately after that run your finger around the colour wheel.
- You are connected now.

## TO USE



Using the App select the zone / room that you want. Then run a finger around the colour wheel until the LEDs start to change colour. You can also use the surrounding buttons to control the colour.

## DECODER



DMX2102 x1



DRIVER

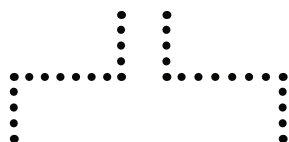


PS1524 x1

## POWER REPEATERS



PR3011 x2



DRIVER



PS10024 x1

CABLE



CF505RGBW x2 (300mm)

## SET UP

DMX  
CONTROL  
SYSTEM

Set to required channel number on the digital display of the DMX2102 decoder.

## TO USE

DMX  
CONTROL  
SYSTEM

Follow instructions supplied with your DMX control system.

# INDEX

## GROUND LIGHTS



GL007RGBW

Page 21



GL008RGBW

Page 20



GL016RGBW

Page 22



GL040CARGB

Page 21



GL050RGBW

Page 22



GL090RGBW

Page 21

## WALL LIGHTS



WL021CARGB

Page 25

## WALL LIGHTS



WL070RGBW

Page 24



WL075CARGB

Page 25



WL220CARGB

Page 25

## UNIVERSAL LIGHTS



UL010RGBW

Page 28



UL030RGBW

Page 27



UL345CARGB

Page 26



UL346CARGB

Page 27

## UNIVERSAL LIGHTS



UL347CARGB

Page 27

## SPIKE LIGHTS



SL021CARGB

Page 29



SL220CARGB

Page 29

## DOWNLIGHTS



DL329RGBW

Page 31



LL030CARGB

Page 31


























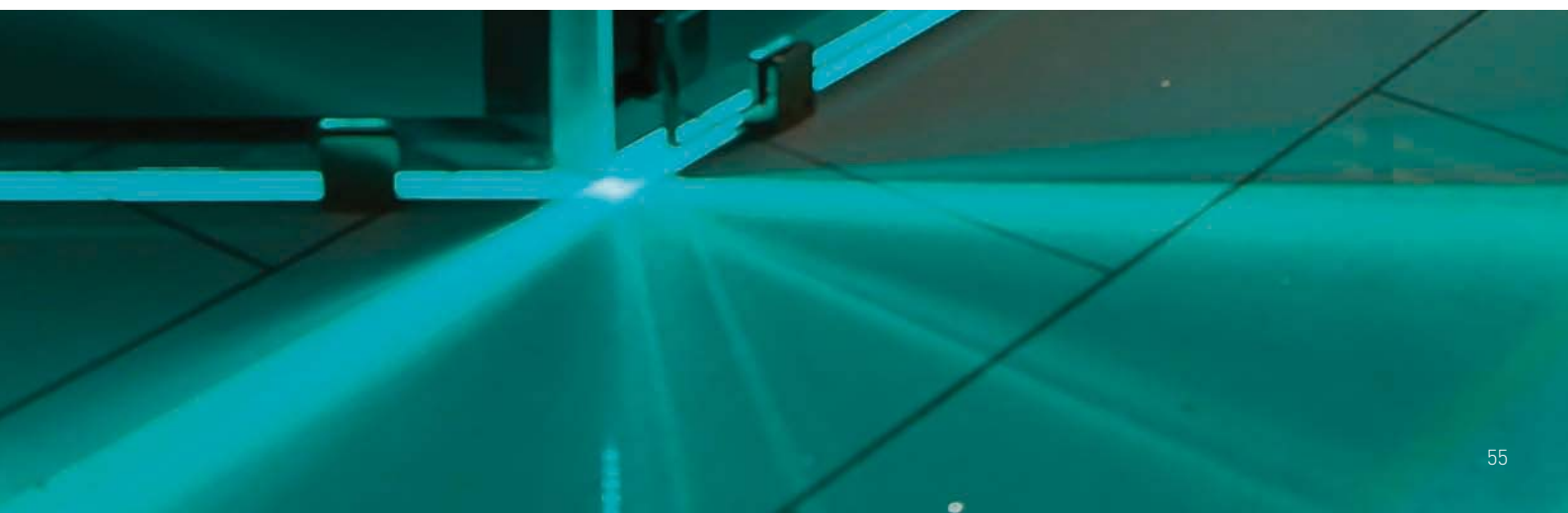
LL090RGBW

Page 30

The Raj, Kettering  
STARSTRIP RGB



LED STRIP			WIRING & DRIVERS			WIRING & DRIVERS		
	LED5050RGBW LS5RGBWXXX	Page 32		DMX2102	Page 45		PS1524	
							<a href="http://collingwoodlighting.com">Visit collingwoodlighting.com</a>	
	LED5050RGB LS5RGBXXX	Page 33		JB3	Page 48		PS5024	
							<a href="http://collingwoodlighting.com">Visit collingwoodlighting.com</a>	
	STARSTRIP RGB STARSTRIP/122 RGB STARSTRIP/32 RGB STARSTRIP/62 RGB STARSTRIP/92 RGB	Page 33		JB7	Page 48		PS10024	
							<a href="http://collingwoodlighting.com">Visit collingwoodlighting.com</a>	
WIRING & DRIVERS			WIRING & DRIVERS			WIRING & DRIVERS		
	C100924	Page 42		LED RGBWEXT	Page 49		PSIP15024	
							<a href="http://collingwoodlighting.com">Visit collingwoodlighting.com</a>	
	CF505RGBW	Page 46		LED RGB 0.75 CABLE	Page 48		RC2819	Page 40
	COLLINGWOOD RGBW	Page 41		LED 3 RGB EXT	Page 49		STARSTRIP 1M EXT	Page 49
	CR575RGBW	Page 49		PR3002	Page 43		TR2818	Page 41
				PR3011	Page 42		WC2820BLK WC2820WH	Page 40



# PLACE YOUR ORDER

## 1. How many rooms / zones would you like to control?

Select the remote that covers the amount of zones you need. For more than 8 zones you will need a DMX control system.

Page 40-41

Wall Mounted Remote Control - WC2820BLK / WC2820WH - 1-4 zones

Hand Held Remote Control - RC2819 - 1-6 zones

CollingwoodRGBW App - with TR2818 [Requires 15W driver] - 1-8 zones

Zone 1 / 1 Room

Zone 2 / 2 Rooms

Zone 3 / 3 Rooms

## 2. How many controllers / decoders do you need, and which driver to power it?

You will need to do this for each zone.

Page 44-45

C100924

You will need one **C100924** controller per zone. 100 power repeaters can run off one **C100924** controller. If you require more than 100 please contact Collingwood for further information on **01604 495 151**.

## 3. Which power repeater do you need, and how many of them?

You will need to do this for each controller.

Page 42-43

PR3002

Use a **PR3002** power repeater for constant voltage products. You can have up to 100 **PR3002** per **C100924** controller. Don't forget you will need 300mm of **CF505RGBW** cable with each **PR3002** you use.

## 4. Calculate how many PR3002s you need for the products you have and which driver to power them.

Page 42-43

### LED5050RGBW - Bespoke lengths available


Length of Strip per Power Repeater	up to 2m per <b>PR3002</b>	up to 5m per <b>PR3002</b>	up to 10m per <b>PR3002</b>
Wattage Driver Needed	50W	100W	150W
Product (Driver)	<b>PS5024</b>	<b>PS10024</b>	<b>PSIP15024</b>

### LED5050RGB - Bespoke lengths available

Length of Strip per Power Repeater	up to 5m per <b>PR3002</b>	up to 10m per <b>PR3002</b>
Wattage Driver Needed	50W	100W
Product (Driver)	<b>PS5024</b>	<b>PS10024</b>

### STARSTRIP RGB - Comes in set lengths

STARSTRIP/122 RGB [1220mm]	STARSTRIP/92 RGB [920mm]	STARSTRIP/62 RGB [620mm]	STARSTRIP/32 RGB [320mm]
12W per 1220mm length	9W per 920mm length	6W per 620mm length	3W per 320mm length
Maximum of 8 per <b>PR3002</b> 1 = 15W driver <b>PS1524</b> 2-4 = 50W driver <b>PS5024</b> 5-8 = 100W driver <b>PS10024</b>	Maximum of 10 per <b>PR3002</b> 1 = 15W driver <b>PS1524</b> 2-5 = 50W driver <b>PS5024</b> 6-10 = 100W driver <b>PS10024</b>	Maximum of 16 per <b>PR3002</b> 1-2 = 15W driver <b>PS1524</b> 3-8 = 50W driver <b>PS5024</b> 8-16 = 100W driver <b>PS10024</b>	Maximum of 24 per <b>PR3002</b> 1-5 = 15W driver <b>PS1524</b> 6-16 = 50W driver <b>PS5024</b> 16-24 = 100W driver <b>PS10024</b>

 Remember if you need any help our team are on hand on 01604 495 151.

Zone 4 / 4 Rooms

Zone 5 / 5 Rooms

Zone 6 / 6 Rooms


Zone 7 / 7 Rooms

Zone 8 / 8 Rooms

WHICH DRIVER IS NEEDED TO POWER MY C100924 OR DMX2102?

Number of Power Repeaters	Driver Needed to Power C100924 / DMX2102	Product (Driver)
1 - 10	15W	PS1524
11 - 30	50W	PS5024
31 - 60	100W	PS10024
61 - 100	150W	PSIP15024

If a DMX control system is already in place then you will need to use a **DMX2102** decoder in place of the **C100924** controller. If you require more than 8 zones you will need a DMX control system.



Use a **PR3011** power repeater for constant voltage products. You can have up to 100 **PR3011** per **C100924** controller. Don't forget you will need 300mm of **CF505RGBW** cable with each **PR3011** you use.

DRIVERS NEEDED TO POWER THE NUMBER OF PR3011 POWER REPEATERS YOU'RE USING

Number of Power Repeaters	Driver Required	Product (Driver)
1	50W	PS5024
2 - 3	100W	PS10024
4 - 5	150W	PSIP15024

4. Calculate how many PR3011s you need for the products you have.

Page 42-43

Product Code	Product Family	Max Per PR3011
DL329RGBW	Downlight	6
GL007RGBW	Ground Light	2
GL008RGBW	Ground Light	1
GL016RGBW	Ground Light	6
GL040CARGB	Ground Light	6
GL050RGBW	Ground Light	6
GL090RGBW	Ground Light	2
LL030CARGB	Downlight	6
LL090RGBW	Downlight	2
SL220CARGB & SL021CARGB	Spike Light	6
UL010RGBW	Universal Light	6
UL030RGBW	Universal Light	2
UL345CARGB	Universal Light	1
UL346CARGB	Universal Light	1
UL347CARGB	Universal Light	1
WL070RGBW	Wall Light	1
WL075CARGB	Wall Light	2
WL220CARGB & WL021CARGB	Wall Light	6

 Don't forget to order extension cable and junction boxes if you need it (Page 48-49).



# WHAT TO CONSIDER WHEN PLACING YOUR ORDER

## Remotes - Page 40-41

How many zones do you need?

Which remote covers the number of zones you need?

Is a DMX control system already in place or do you need more than 8 zones? (Use a DMX control system in this case)

## Controller - Page 44

Are you using a RF remote or a DMX control system? (Use the C100924 with RF remotes and the DMX2102 with DMX control systems)

What wattage driver do you need to power your controller / decoder?

## Power Repeaters - Page 42-43

Are you using constant voltage or constant current products? (Use PR3002 for constant voltage products and PR3011 for constant current products)

You will need CF505RGBW cable to connect each of your power repeaters.

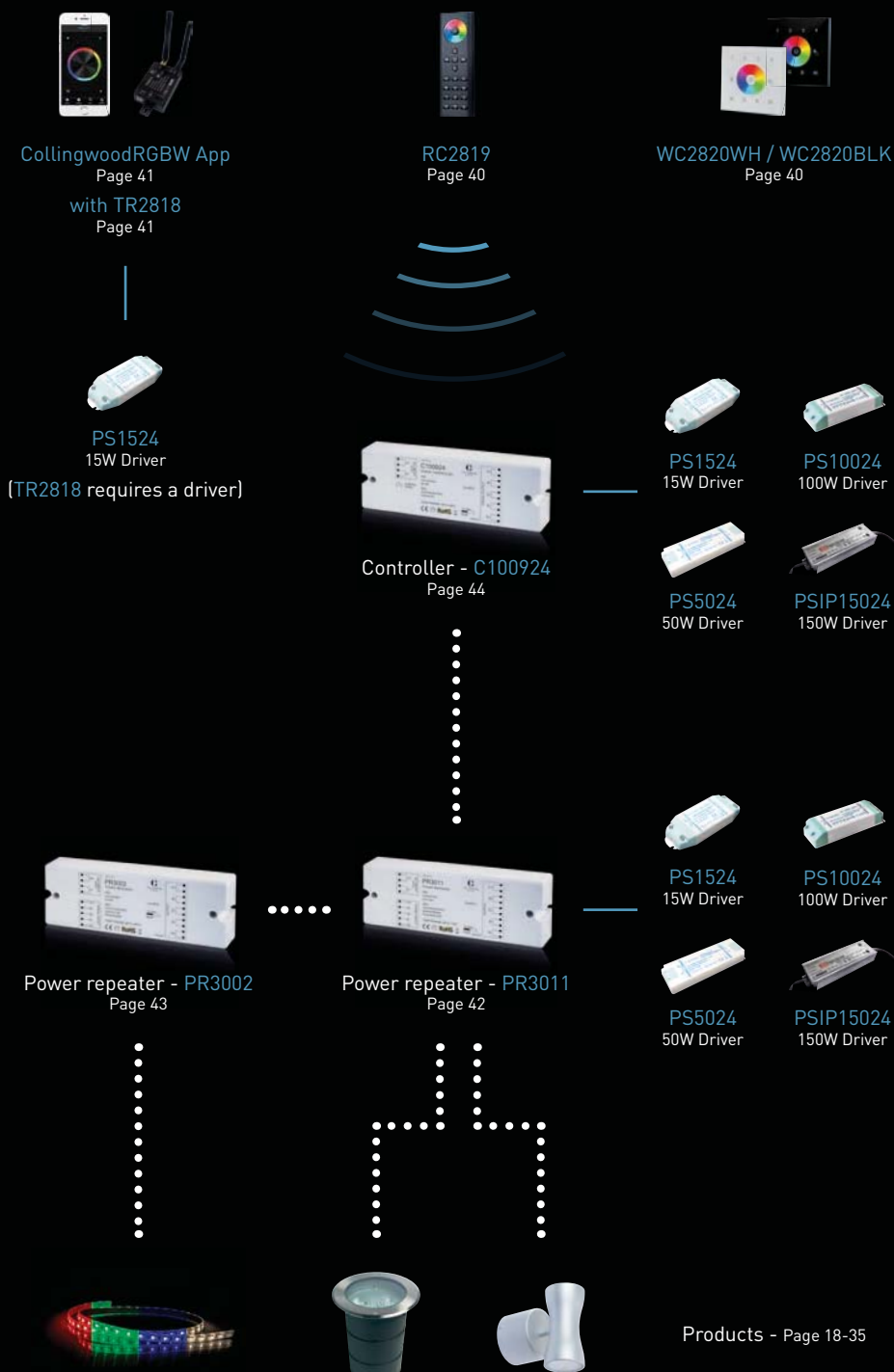
What wattage driver(s) do you need to power your power repeaters?

## Products - Page 20-35

What products do you want?

You will need cable to connect your products to your power repeaters.

Avoid using RGB and RGBW products in the same zone as the colour may not always match.



Products - Page 18-35

# NOTES

## Per Zone



8. Place your order  
(Page 56-57)

This image shows a full page of blank graph paper. The grid consists of small, equal-sized squares formed by thin black lines. There are no margins, text, or other markings on the page.[illegible]

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## GET IN TOUCH

### Light your world with Collingwood Lighting

We never stop looking for better and more efficient ways to illuminate the world. Our advanced, precision-engineered luminaires are the product of ceaselessly enquiring minds, minute attention to detail, and always paying attention to what customers say.

To see our full range, visit **[collingwoodlighting.com](http://collingwoodlighting.com)**

To find out more, call us on **+44 (0) 1604 495 151**



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#### Collingwood Lighting

Brooklands House Sywell Aerodrome  
Sywell Northampton NN6 0BT

**t** +44 (0) 1604 495 151    **f** +44 (0) 1604 495 095

**e** [sales@collingwoodgroup.com](mailto:sales@collingwoodgroup.com)    **w** [collingwoodlighting.com](http://collingwoodlighting.com)



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