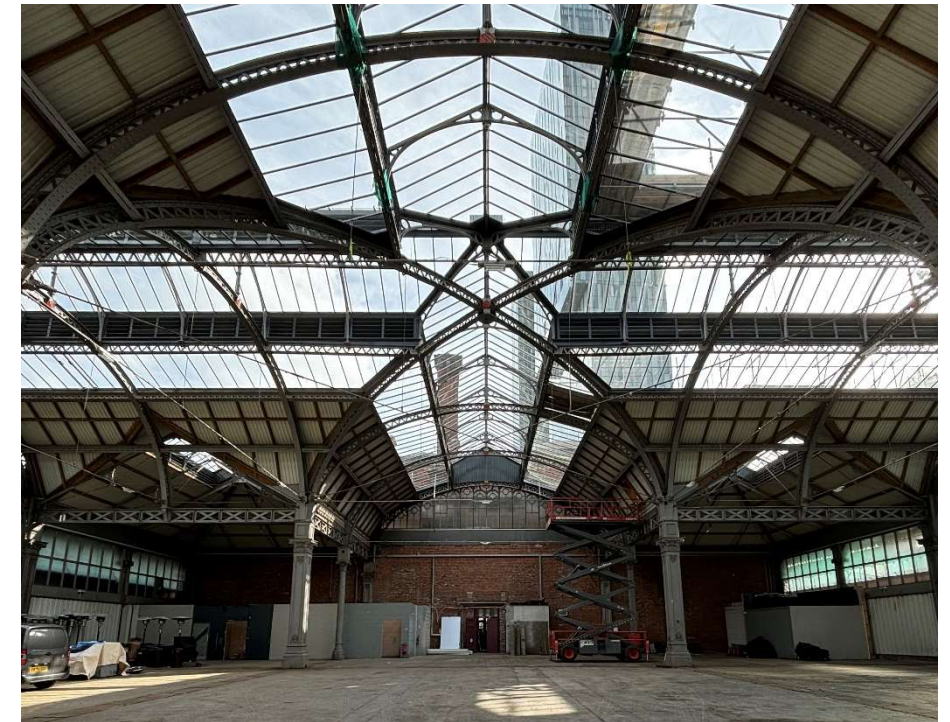




Upper Campfield

Liverpool Road, Manchester, M3 4NN

Full Planning Permission ref: 138377/FO/2023

Condition 16

Issue 01 – 19/02/2025

PROJECT3 architects

Full Planning Permission

Condition 16

The development hereby approved shall include a building and site lighting scheme and a scheme for the illumination of external areas during the period between dusk and dawn. Prior to the first occupation of the development (for Upper or Lower Campfield Markets), full details of such a scheme for the development shall be submitted for approval in writing by the City Council, as Local Planning Authority. The approved scheme shall be implemented in full prior to the first occupation of the development (for Upper or Lower Campfield Markets) and shall remain in operation for so long as the development is occupied.

Response:

The external lighting scheme consists of linear LED lights at the head of each recessed cladding panel on Liverpool Road and Barton Street, as located on the attached LDL proposal. The LED lights will be concealed behind an aluminium shroud as shown on the attached mock-up photos.

In addition, external wall lights will be installed above all exit doors as the attached Lighting Motions, Fusion Wall Light.

Information provided:

- 01** LDL Lighting – LED linear lights proposal
- 02** Colour Zone Multizone LED colour controller
- 03** Images of installed LED lighting mock-up
- 04** Lighting Motions, Fusion Wall light

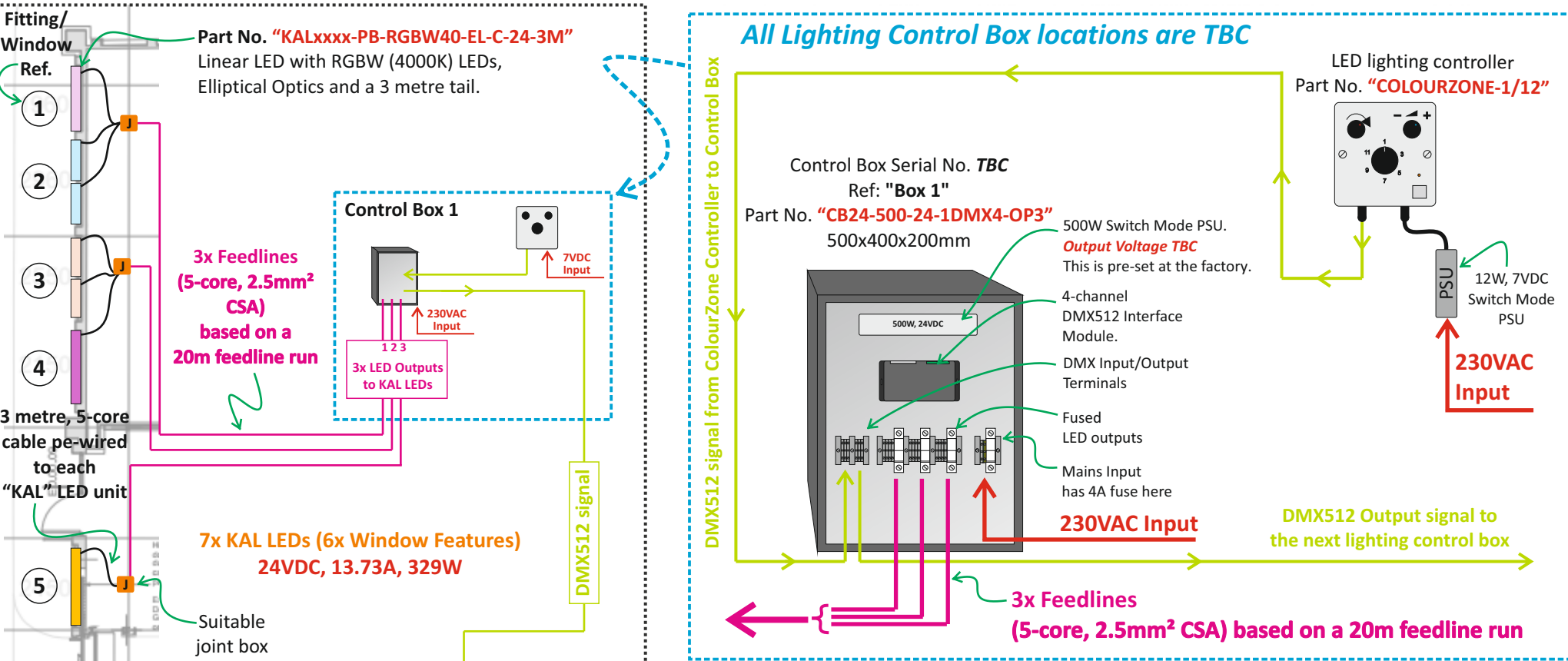
01 LDL Lighting – LED linear lights proposal

Upper Campfield - RGBW "KAL" LED Linear Lights, 1 Zone of Control - Provisional Wiring Overview

This drawing shows the typical wiring for 1 ZONE of control. There are 28x "KAL" LEDs on the project to illuminate 26x window features (windows 2 & 3 have 2x LEDs each). Each "KAL" length is fitted with RGBW (4000K) LEDs and Elliptical (45°x16°) Optics. The lights are powered by 4x Control Boxes located near the window features. The control boxes are fitted with 500W, 24VDC PSUs, 1-Zone (4-channel) DMX512 interface modules and SELV fused output terminals. The lighting is controlled by a DMX512 ColourZone Controller with 12 customisable lighting scenes.

Drawing No./Status:
27535 Rev.A
Provisional
09/01/2025





This drawing shows the system configured as 1 Zone of control.

Equipment Summary:			Electrical Details		
Product Image	Qty	Part No:	Operating Voltage	Max. Current Per Unit	Max. Wattage Per Unit
	10	KAL1165-PB-RGBW40-EL-C-24-3M	24VDC typ.	1.4A	34W
	2	KAL1415-PB-RGBW40-EL-C-24-3M	24VDC typ.	1.72A	41W
	3	KAL1790-PB-RGBW40-EL-C-24-3M	24VDC typ.	2.18A	53W
	3	KAL1915-PB-RGBW40-EL-C-24-3M	24VDC typ.	2.34A	56W
	2	KAL2040-PB-RGBW40-EL-C-24-3M	24VDC typ.	2.5A	60W
	6	KAL2290-PB-RGBW40-EL-C-24-3M	24VDC typ.	2.8A	68W
	2	KAL2415-PB-RGBW40-EL-C-24-3M	24VDC typ.	2.96A	71W
	1	COLOURZONE-1/12	7VDC.	-	-
	2	CB24-500-24-1DMX4-OP3 (Boxes 1 & 2)	230VAC	4A	500W
	2	CB24-500-24-1DMX4-OP4 (Boxes 3 & 4)	230VAC	4A	500W

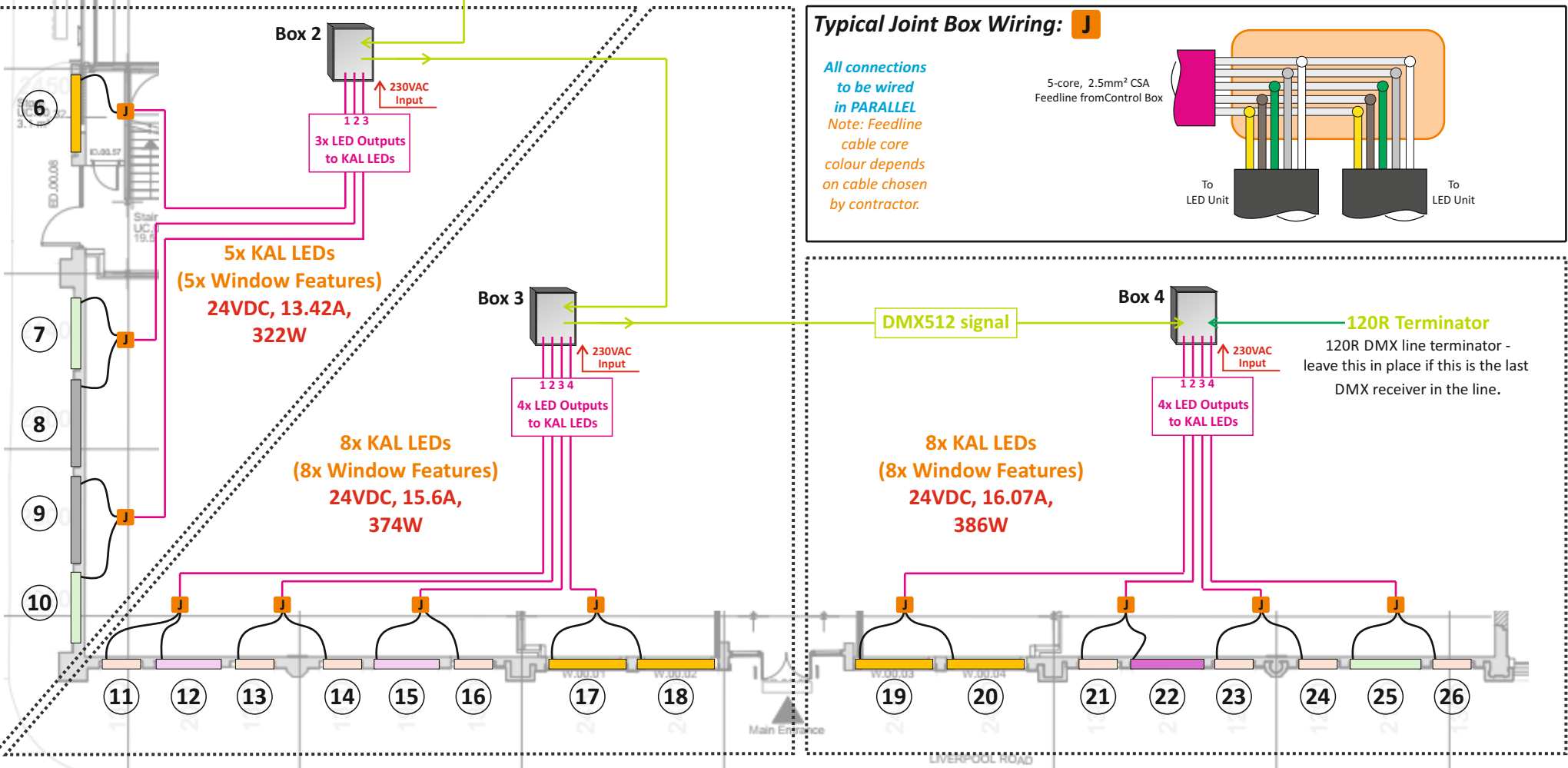


Image	Function	Type	Supplied By
	DMX512 Data Cable	2-core screened	Installation Contractor
	Feedline	5-core feedline, size 2.5mm² CSA	Installation Contractor
	230VAC Input Cable	L, E, N	Installation Contractor
	Junction Box	Feedline Junction Box	Installation Contractor
	Luminaire Cable	3 metre cable, 5-cores, 0.34mm² CSA, 4.9mm O.D. njo Ref. W509	Pre-wired to LED

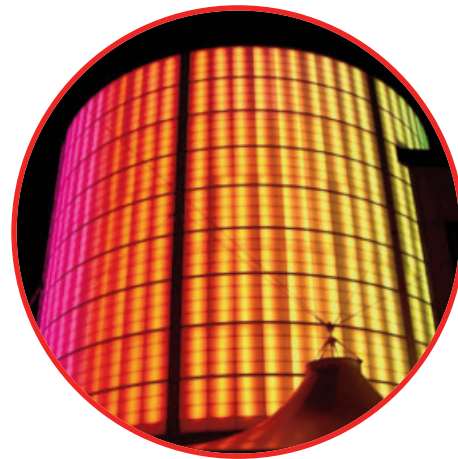
All connections to be wired in PARALLEL
These LED lights operate from a Low Voltage source and must not be Connected to a Mains Voltage supply. WARNING! Reverse Polarity damages LEDs

02 Colour Zone Multizone LED colour controller

ColourZone

Multizone LED Colour Controller, DMX512 Output

- Suitable for multizone schemes of all sizes
- Produces 6 Zones of DMX512
- Vivid colour rendition and smooth colour change
- Customisable scene, USB2.0 compatible
- 12 scenes available
- Scene speed control
- Dimming adjustment function
- Microsoft Windows compatible
- 1-gang brushed stainless steel plate



Description

ColourZone is a DMX512 colour change LED controller suitable for controlling multiple Zones of lighting. It allows RGBW control for up to 6 Zones of lighting using 12 programmable scenes. These scenes are fully customisable using the ColourZone software provided. The ColourZone controller has speed & dimming functions, allowing the user to fine tune the speed & brightness of the selected scene.

The ColourZone software allows the user to program specific colour sequences for each Zone of lighting within one scene. The software enables the programmer to select a wide range of colours using a very simple colour picker. The speed and hold settings for each scene can be adjusted in the software, providing a wide range of flexibility of control for the project lighting. Please refer to ColourZone Programming Guide for more information.

The ColourZone is supplied with a 1.2m USB cable, 12W 7VDC power supply, metal or plastic 1-gang back box and a ColourZone Software CD.

Controller Operation Guide

Scene Selecting:

Use the Scene Selector Knob to select a specific program. The controller is pre-programmed with 12 routines.

Dimming:

The light output can be dimmed & brightened using the Dimming knob. Turn clockwise to increase the brightness and anti-clockwise to dim the lights.

Speed:

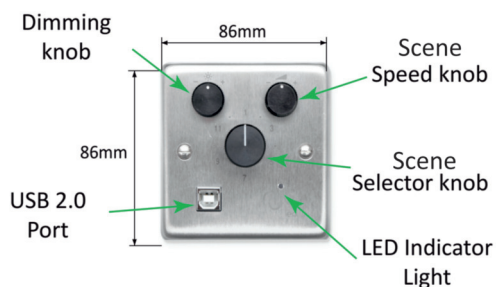
The speed of any running program can be increased or decrease using the Scene Speed knob. Turn clockwise to increase the speed and anti-clockwise to decrease the speed of the selected scene.

USB Port:

USB 2.0 port allows connection to a PC via a USB cable. This allows the user to customise and create scenes within the ColourZone software. For more information see ColourZone Programming Guide.

LED Indicator:

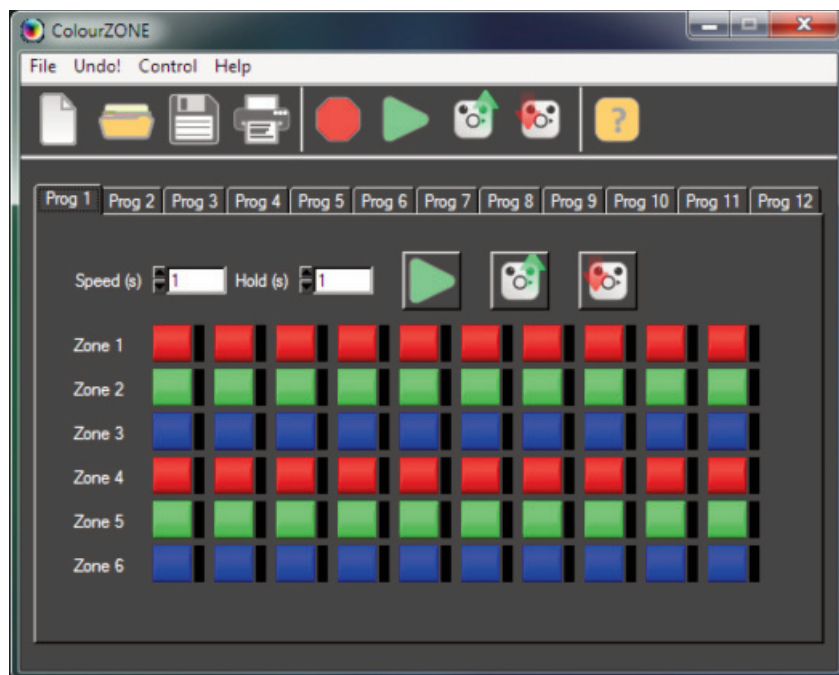
Blue LED light indicates scene selection change, scene upload and software initialisation during power on.



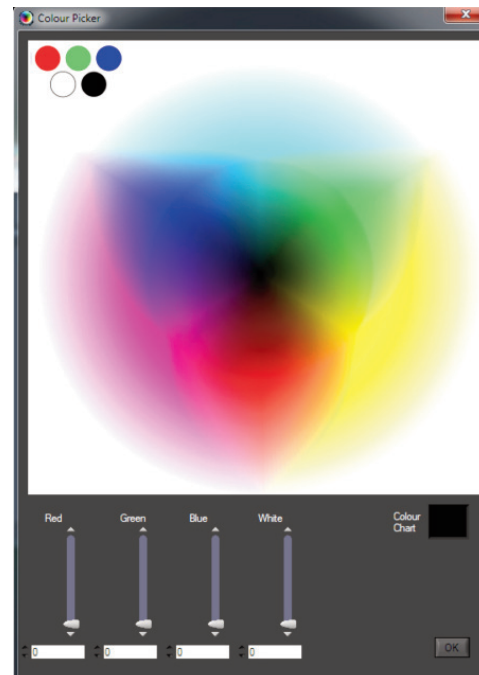
ColourZone

Multizone LED Colour
Controller, DMX512 Output

ColourZone Software - Sample Screen



ColourZone Software Screen - Program 1
(this is a preset program on the controller)



Colour Picker

See ColourZone Programming Guide for software set up and custom program instructions.

ColourZone Accessories & Wiring

ColourZone Accessories (Supplied with Controller)



- USB Lead



- 7VDC, 12W, Power Supply

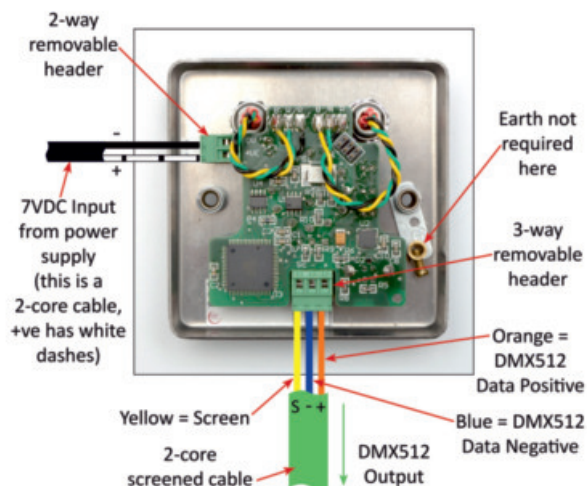


- 2 metre Figure 8 power lead

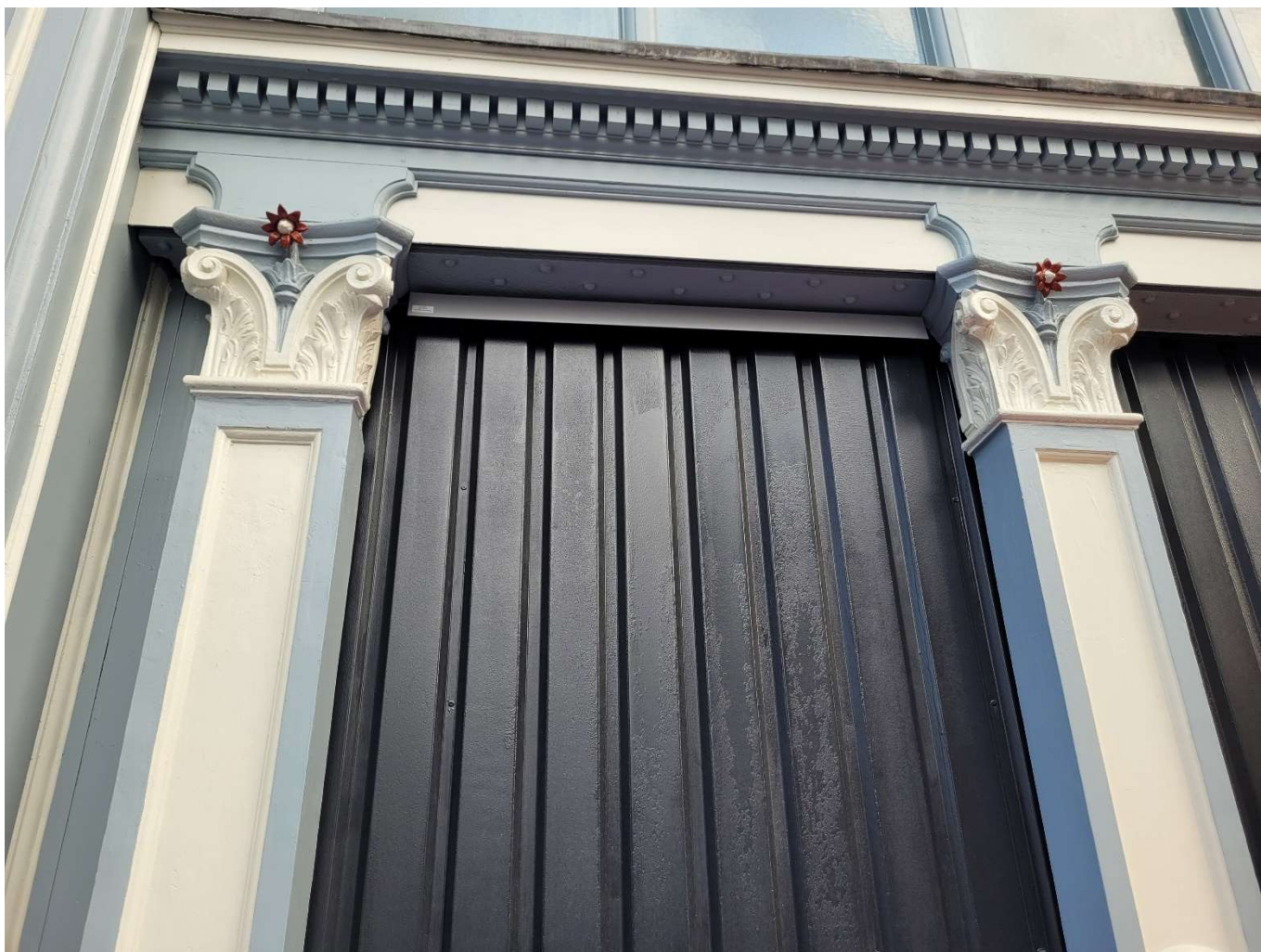


- ColourZone Programming Software CD

Wiring - Internal Rear View of Controller



03 Images of installed LED lighting mock-up

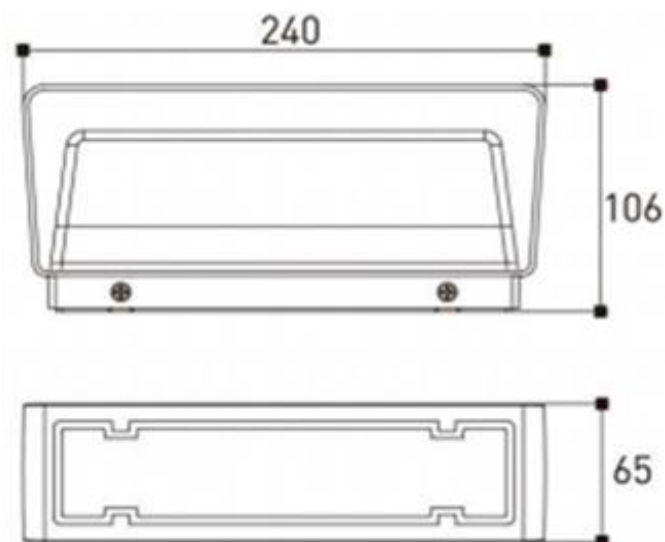


External LED linear lighting mock-up



External LED linear lighting mock-up

04 Lighting Motions, Fusion Wall light



CAT NO	COLOUR TEMP (K)	COLOUR RENDERING (RA)	LIFE (L80) (HRS)	TOTAL CONNECTED LOAD	TOTAL DELIVERED LUMENS	LUMINIAIRE SYSTEM EFFICACY (lm/w)	IP RATING	MECHANICAL IMPACT RESISTANCE	FINISH	CONTROL GEAR
FXW1384	4000	80	50,000	13	800	61	IP65	IK08	DARK GREY	FIXED OUT PUT

Add suffix to catalogue number:

DALI: Digital Addressable Lighting Interface.

PD : Phase dimming. **SD:** Dimming with push to make switch.

EM3: 3 hour emergency. **EM3ST:** 3 hour self test emergency.

EM3DALI: DALI addressable emergency.

Please note that with the continuous rapid development in lighting technology, specification values may change. Contact our technical department for details. We reserve the right to amend or change details without prior notification. All performance data is taken at an ambient temperature of +25°C. Lumens and connected system load are subject to an initial tolerance of up to +/- 10%.

