PRODUCT SPECIFICATION

ARCUS DUO

INTRODUCTION

The Arcus Duo brings a new aesthetic to our range of LED modular luminaires with a gullwing design and twin high transmission extruded opal diffusers providing excellent efficiency. The Arcus Duo is available in 1200x600 and 600x600 options for lay in installation in exposed T ceiling systems and can also be ordered in dimming, white tunable and lithium emergency options ensuring it can be easily tailored to suit your needs. With lumen outputs ranging from 2940llm to 10080llm the Arcus Duo is ideally suited to applications such as retail, receptions and corridors. We offer a range of wireless control systems providing localised grouping and control as well as comprehensive wireless solutions allowing both standard and emergency luminaires to be centrally monitored.

UK CA   CE IP30 TM21: L90>60K HOURS / L80>100K HOURS 3 STEP MACADAM ELLIPSE TP(α)

APPLICATION

- Canteen
- Commercial / Offices
- Corridor
- Education
- Hotel / Leisure
- Industrial / Manufacturing
- Retail

SPECIFICATION

CONSTRUCTION

- Housing: 0.7mm CR4 steel
- Finish: Polyester powder painted RAL 9016 textura matt white
- Diffuser: 2mm extruded high transmission opal polycarbonate
- IP20

PERFORMANCE

- Part L2 compliant
- 3SDCM Three step Macadams ellipse
- TM21: L90>60K Hours / L80>100K Hours
- Up to 146 luminaire lumens per circuit Watt.

ENVIRONMENTAL

- Designed to allow simple replacement of components with commonly available tools in compliance with the Eco Design Directive, please see the installation leaflet for maintenance instructions.
- Powered by European branded drivers and emergency modules ensuring replacement parts are easily sourced.
- Every luminaire is labelled with a unique ID number allowing easy identification of spare parts for the lifetime of the product.
- Contains no single use plastics or polystyrene packaging.
- Supplied in plain card boxes with paper tape ensuring packaging is easily recycled.
- Designed to allow simple disassembly for end of life recycling.
- UK based manufacturing providing local support throughout the product lifetime and minimising transportation miles.

EMERGENCY

- Available with optional standard, self test and autotest integral emergency with lithium batteries for extended warranty and lifetime.

- ❯ Optional Reacta-Link wireless emergency for automated centralised reporting.
- ❯ Optional Reacta-Control wireless emergency for automated centralised reporting.
- ❯ Optional central battery changeover relay

CONTROL

- ❯ HFR 1-10V analogue dimming
- ❯ Optional compatibility with a range of dimming systems including DALI, DSI and Switch Dimming
- ❯ Optional White tunable
- ❯ Optional Integral R44 presence and daylight sensor
- ❯ Optional integral Reacta-Link for integration with Reacta-Link wireless installations
- ❯ Optional integral Reacta-Control for integration with Reacta-Control wireless installations

INSTALLATION

- ❯ Suitable for lay-in installation in exposed T ceilings
- ❯ Suitable for pull-up installation in concealed grid ceilings
- ❯ Suitable for plasterboard installation when purchased with the appropriate plasterboard kit

VARIATIONS

- ❯ Available with a wide range of colour temperatures and renderings
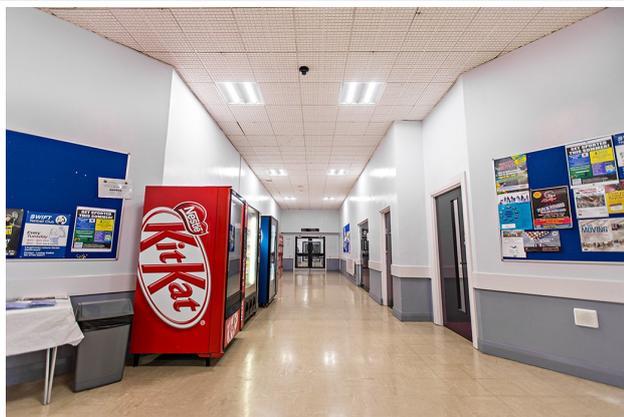- ❯ Available in a range of lumen outputs

IMAGES

PRODUCT IMAGES

Arcus Duo 600x600

Arcus Duo R44 600x600

Arcus Duo 1200x600

PROJECT IMAGES

A leisure centre using the Arcus Duo 600X600

A leisure centre using the Arcus Duo 600X600

A leisure centre using the Arcus Duo 600X600

Iceland using the Arcus Duo 600X600

TECHNICAL

Arcus Duo Lay-In 600x600

Arcus Duo Lay-In 1200x600
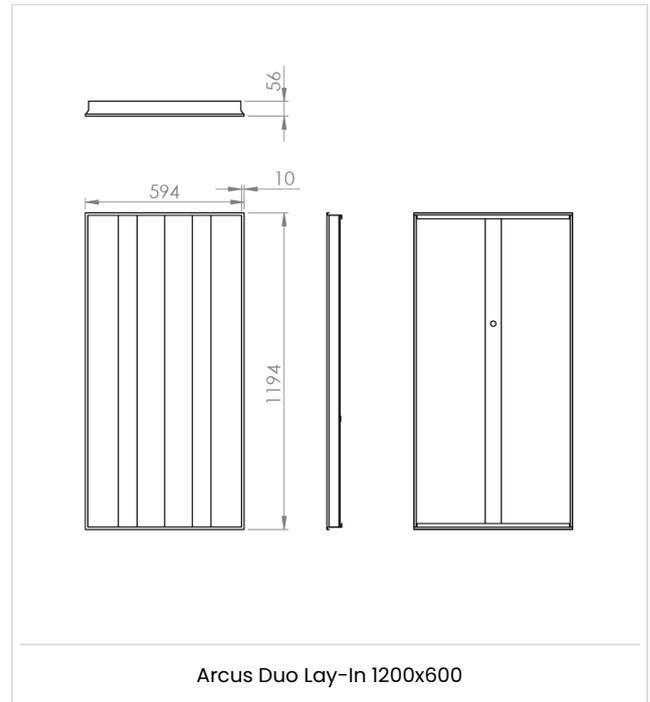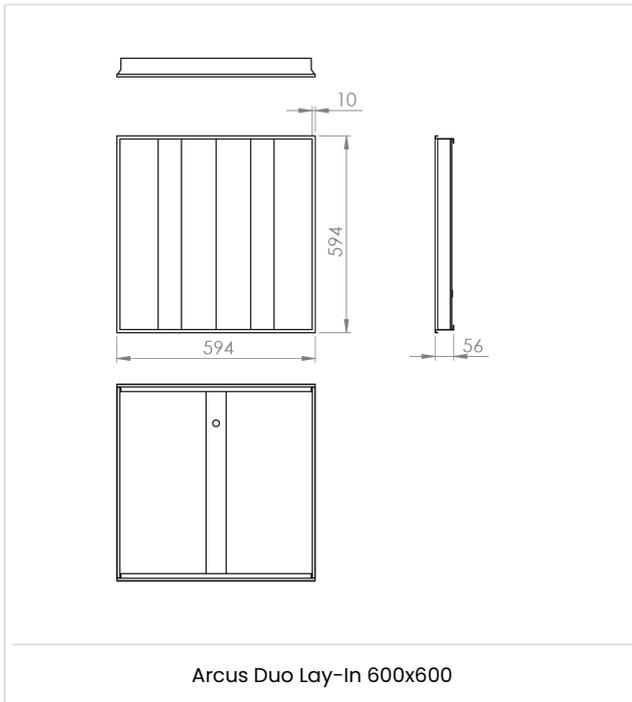
WARRANTY

At Dextra our commitment to service has been at the forefront throughout our history spanning more than forty years in the UK lighting market. Our service ethos extends beyond design and delivery, we believe supporting your installation throughout the warranty period is equally crucial, whilst the strength and longevity of Dextra Group provides peace of mind that our warranty will be supported throughout.

The Dextra range is supplied with a five year warranty commencing from the date of delivery. During the first three years defects will be repaired on site and the warranty will include both parts and labour. For the final two years drivers, emergency modules, wireless modules, sensors and LED circuits will be supplied free of charge to replace defective components, labour and other associated costs are not included.

Certain ranges and components are subject to exemptions:

> Lithium batteries are provided with a five year warranty. During the first three years defects will be repaired on site and the warranty will include both parts and labour. For the final two years replacement batteries will be supplied free of charge to replace defective components. Five year warranty became effective as of 03/02/25, Lithium emergency luminaires supplied prior to this date are supported with a three year on site warranty only. Labour and other associated costs are not included. Nickel Metal Hydride and Nickel Cadmium batteries are provided with a one year warranty for parts and labour.

> Emergency luminaires including AME2, EXI LED, EXI3, HBE3, HBE4, OAT2 LED and Twinspot are supplied with a one year warranty for parts and labour. Lithium variants suffixed with the 5YR part code, the Autotest emergency with the LA3 part code and wireless variants with LA3RC or LSTR part codes are supplied with a five year warranty. For these extended warranty variants for the first three years defects will be repaired on site and the warranty will include both parts and labour. For the final two years replacement batteries will be supplied free of charge to replace defective components.

> Protec Micro, PTECF7 Fire Rated Downlights, Serenus and the Opus Sconce are provided with a five year replacement luminaire only warranty. Protec FR Fire Rated Downlights are provided with a 2 year replacement luminaire only warranty.

> Controls systems such as standalone sensors, switches, marshalling boxes and cabling are provided with a one year warranty for both parts and labour. DALI control systems are provided with a two year warranty for both parts and labour.

> LEDextra ranges are supplied with a three year parts or replacement luminaire only warranty with the exception of the IMPR RGBW, the Runway RBGW, the MOD RGBW, Tanek RGBW and the DexRing. These five ranges are supplied with our standard five year warranty during which defects within the first three years will be repaired on site and the warranty includes both parts and labour. For the final two years free of charge replacement components only will be supplied to rectify any failures but labour and other associated costs are not included.

> LEDEX ranges are supplied with a three year replacement luminaire only warranty.

> The Decorative Pendant ranges, Bebo, Dene, Nova, Fino and Stix are supplied with a 3 year replacement luminaire only warranty.

All warranties are subject to correct use of the product and will be invalidated by misuse, for example incorrect installation, unsuitable environmental conditions or incorrect maintenance. It is the duty of the customer to ensure that all the fault lies with the luminaire prior to requesting replacement parts or site repairs. In the event that no defect is found with the product our costs for attending site will be recharged to the customer and credit

will not be issued against returned products. No consequential losses incurred resulting from any defect with our product will be reimbursed.

Given the nature of LED technology a small percentage of LEDs may fail during the lifetime of a luminaire, this does not cause a reduction in lumen output. As such LED luminaires are only deemed to be faulty for warranty purposes when in excess of ten percent of LEDs have failed in a single luminaire.

On site repair of products under warranty will be undertaken during normal working hours, 9am to 5pm Monday to Friday, and will require unrestricted access to luminaires. Where required Dextra will provide access equipment to carry out repairs at height, should luminaires have been installed in locations where reasonable provision for maintenance access has not been made we reserve the right to supply replacement product only. On site warranty repairs will only be undertaken on the mainland of the UK and Ireland, in all other locations replacement product only will be provided.

If you require any assistance with regards to our products please contact our Customer Services department on 01747 858100.

ORDER CODES

LUMINAIRE

Code	Description	Power	Llm/W
ARCR L35 2D	Arcus Duo, Lay-In, 600x600, 2,940llm, Twin Diffuser, Colour 84	22.1W	133
ARCR L44 2D	Arcus Duo, Lay-In, 600x600, 3,696llm, Twin Diffuser, Colour 84	29.2W	126
ARCR L60 2D	Arcus Duo, Lay-In, 600x600, 5,040llm, Twin Diffuser, Colour 84	38.6W	130
ARCR L72 2D	Arcus Duo, Lay-In, 600x600, 6,048llm, Twin Diffuser, Colour 84	48.4W	124
ARCR 126 L72 2D	Arcus Duo, Lay-In, 1200x600, 6,048llm, Twin Diffuser, Colour 84	41.4W	146
ARCR 126 L88 2D	Arcus Duo, Lay-In, 1200x600, 7,393llm, Twin Diffuser, Colour 84	51.4W	143
ARCR 126 L120 2D	Arcus Duo, Lay-In, 1200x600, 10,080llm, Twin Diffuser, Colour 84	73.0W	138

For plasterboard ceilings please specify lay-in luminaire and appropriate plasterboard kit.

DIMMING

Code	Description
A	DALI Digital Addressable Lighting Interface
S	Switch Dimming
D	DSI Digital Dimming
H	HFR Analogue 1-10v
C	Bi-Level Dimming For Standalone Switched Sensor
WT	White Tunable (Lumen Outputs Vary from Standard)

Please click here for full details on our white tunable offer.

CONTROL

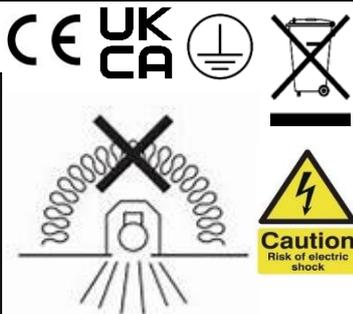| Code	Description
D44	DexNET Sensor, Wireless, Presence & Daylight, 2.5-5M
DN	DexNET Node, Wireless Node only.
R44M	Reacta 44 Mini Integral Sensor
RAS	Reacta-Air Bluetooth, Wireless, Presence & Daylight, 2.5-3M
RLI	Reacta-Link, Wireless Enabled Luminaire
RLS	Reacta-Link Wireless, Presence & Daylight, 2.5M-5M
RC	Reacta-Control, Wireless Enabled Luminaire
RCS	Reacta-Control Wireless, Presence & Daylight, 2.5-4M

EMERGENCY

Code	Description
LE3	Lithium Standard Emergency 3 Hour
LS3	Lithium Selftest Emergency 3 Hour
LA3	Lithium Autotest Emergency 3 Hour
LA3D	Lithium DexNET Emergency 3 Hour
LSTR	Lithium Reacta-Link Emergency 3 Hour
LA3RC	Lithium Reacta-Control Emergency 3 Hour
CB	Central Battery, Please Specify 110V or 230V when Ordering

MISCELLANEOUS

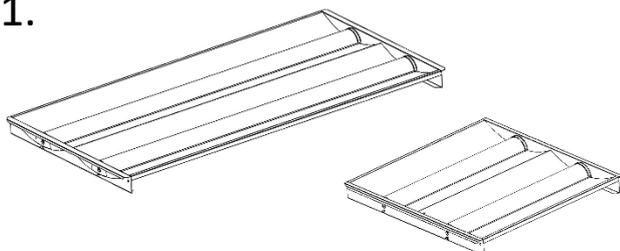| Code	Description
C**	Select Colour Temperature and Rendering; C827, C83, C85, C865, C93, C94
PBK 66	600x600 Plasterboard Kit
LSF	Low Smoke Zero Halogen

Arcus Duo Installation

220-240V / 50-60Hz
IP30

Terminal Labelling:
Power
L / 1	Switched Live
E / ⏚	Earth
N	Neutral

Emergency
L2 / 2	Unswitched Live
DA/AT3	DALI Autotest
DA/AT3	DALI Autotest

Dimming
-/D1/DA	Analogue/DSI/DALI
+/D2/DA	Analogue/DSI/DALI
SD	Switch Dim / Corridor Function

Caution Risk of electric shock

WARNING: Luminaire must be earthed. Risk of electric shock from LED boards if operated with cover removed. Installation / operation outside of luminaires intended scope invalidates warranty. Suitable only for domestic / light industrial / industrial applications within the scope of EN55015. Tested to compliance with BSEN 60598: specification for general requirements and tests. Must be installed by a suitably qualified person in accordance with all relevant legislation. Ambient operating temperature of 0°C to 25°C. If maximum operating temperature is exceeded luminaire will automatically dim / switch off. Terminal blocks are rated to 16A unless stated otherwise. The light source contained in this luminaire shall only be replaced by the manufacturer or his service agent or a qualified person. **LUMINAIRES WITH EMERGENCY PACK:** When supply is isolated battery output terminals may be live if battery is connected. Isolate mains and battery before servicing. Emergency luminaires require unswitched live connection taken from same phase as switched supply. When unswitched supply is connected status indicator illuminates green, when unswitched supply is disconnected indicator extinguishes and luminaire operates in emergency mode. 24 hour charge period required before undertaking full discharge test. Emergency test sheets provided should be used to record all emergency tests. Batteries should be replaced when 3 hour duration is not met. Excessive switching of permanent live may result in premature battery failure. Battery electrolyte can be harmful to eyes / open wounds, do not puncture, if electrolyte touches skin / eyes flush with water. Do not incinerate batteries.
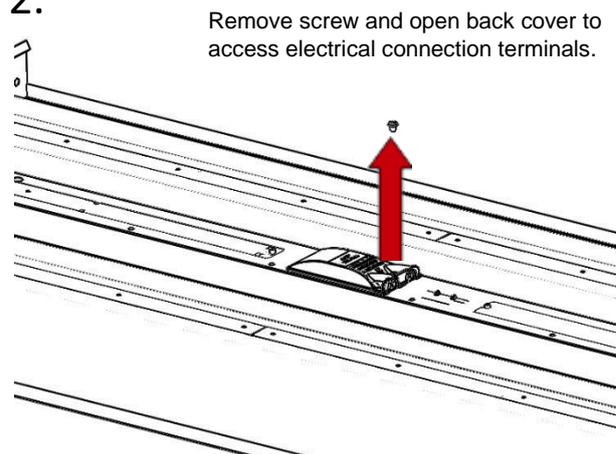
1.

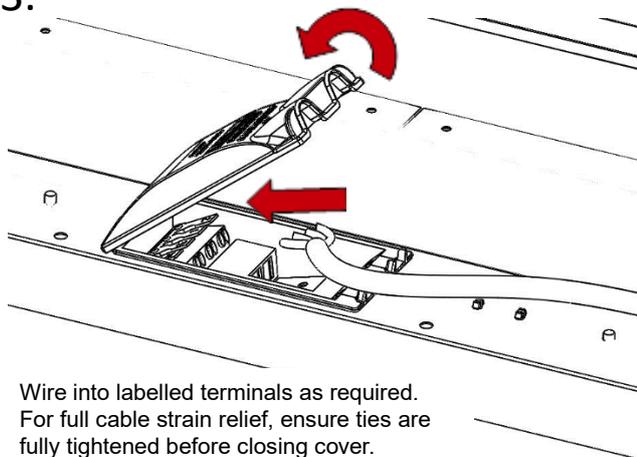Unpack luminaire (note –luminaire is complete and ready to install)

NOTE – This fitting can be supplied to fit in to metal tile 'concealed grid' ceilings (in this format, the luminaire has an additional trim fitted with clip springs and should be installed in the same way as a tile!)
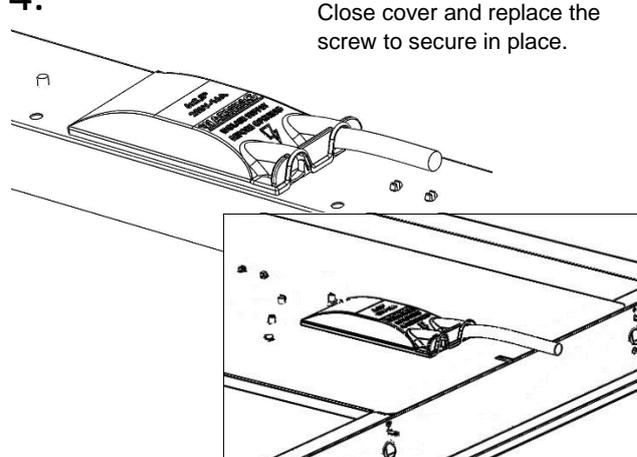
2.

Remove screw and open back cover to access electrical connection terminals.

3.

Wire into labelled terminals as required. For full cable strain relief, ensure ties are fully tightened before closing cover.
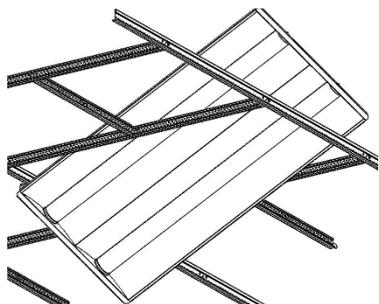
4.

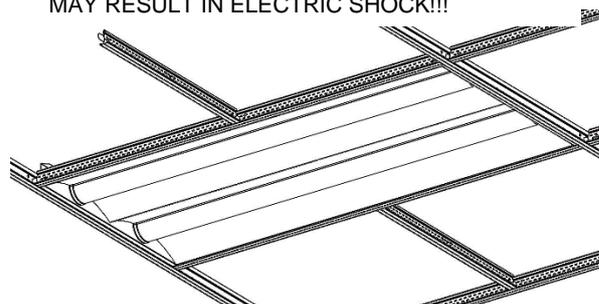Close cover and replace the screw to secure in place.

5.

Once electrical connection is made, offer luminaire into ceiling aperture diagonally and rest on rear face of ceiling T grids – be sure to check it sits correctly on all 4 sides.

6.

Once installed, test for operation.

NOTE – THE DIFFUSERS ARE NOT DESIGNED TO BE REMOVED.....DO NOT ATTEMPT AS IT MAY RESULT IN ELECTRIC SHOCK!!!

Arcus Duo Installation

Maintenance

1. Disconnect luminaire before undertaking any maintenance or cleaning.
2. Cleaning should be undertaken on external parts of the luminaire only using a slightly damp lint free cloth.
3. To access LED circuit use a flat head screwdriver and push into end cap to release.
4. Use a pan pozi screwdriver to remove gear tray and components.
5. Please contact Dextra for assistance with spare component supply.

LED Circuit

Driver   Module   Battery

Plasterboard Kit Installation

Dextra GROUP PLC
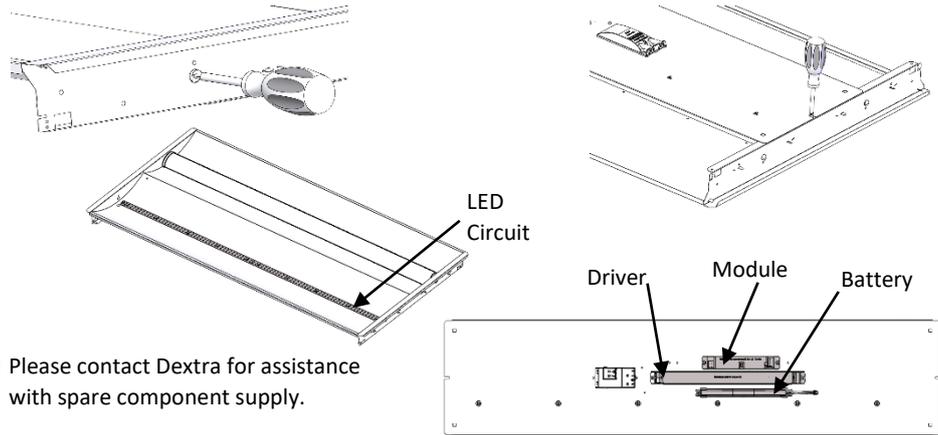
IP20
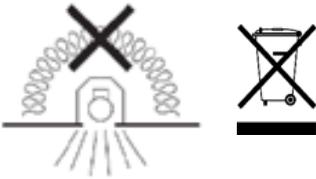
1. For use with lay-in luminaires

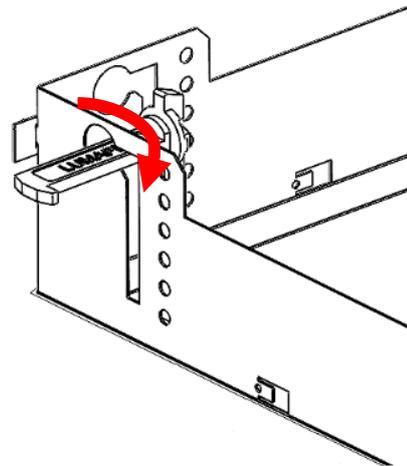|	Cut out sizes (mm)	O/A size
PBK 66	612x612	647x647
PBK 126	1212x612	1247x647
PBK 123	1212x312	1247x347

2. **Compatible fittings:**

Rubini Recessed Modular
Rubix Recessed
Rubix Flush
MOD Office
MOD Slim
MOD UGR
MOD Curve
MOD Caelus
Dual
Dual Square
Arcus Flush
Arcus Duo
Arcus Mono

3.

36

4.

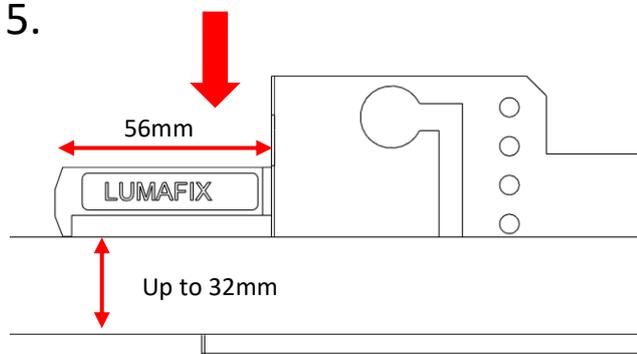

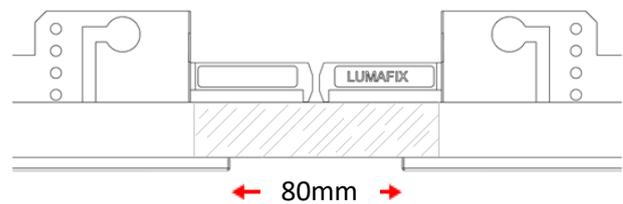**5.**

56mm

LUMAFIX
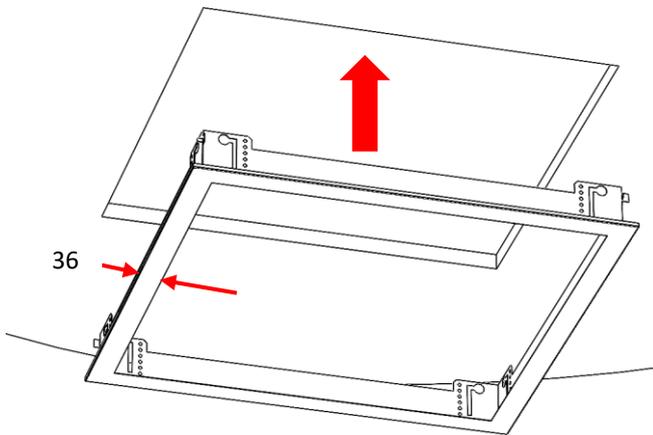
Up to 32mm

Ceilings with thickness up to 32mm

6.

LUMAFIX

← 80mm →

Note minimum distance between frames

Plasterboard Kit Installation

7. Tighten Lumafix

8.

200 (min)

Luminaire is designed to simply lift and tilt in to aperture resting on back of plasterboard kit.
NOTE Minimum void to install.