PRODUCT SPECIFICATION

MOD CAELUS

Dextra
GROUP PLC

MADE IN BRITAIN ®

INTRODUCTION

In health care and educational establishments decorative lighting effects can have a significant impact on the well being of patients and pupils. The Mod Caelus range is available with a range of graphic designs including clouds, blossom and trees allowing the simulation of skylights and other decorative features that can be especially effective in large buildings where it may not be possible to incorporate windows in internal rooms. Images can be divided over multiple luminaires to create larger panoramic images with greater visual impact.

The MOD Caelus is available in 600x600 and 1200x600 sizes, a wide range of lumen outputs, dimming options including white tunable and is also compatible with a range of wireless control systems. These provide localised grouping and control as well as allowing centralised reporting of energy consumption and failures. IP44 options are also available where a greater level of protection is required.

UK CA   CE IP40 IP44 TM21: L90>60K HOURS / L80>100K HOURS 3 STEP MACADAM ELLIPSE TP(a)

APPLICATION

❯ Education

❯ Healthcare / Social Housing

SPECIFICATION

CONSTRUCTION

❯ Housing: 0.7mm CR4 steel

❯ Finish: Polyester powder painted RAL 9016 textura matt white

❯ Diffuser: 2mm high transmission opal polycarbonate TP(a) rated

❯ IK08

❯ IP40

PERFORMANCE

❯ 3SDCM Three step Macadams ellipse

❯ TM21: L90>60K Hours / L80>100K Hours

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

❯ Not available with emergency

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 Reacta-Link for integration with Reacta-Link wireless installations

❯ Optional integral Reacta-Control for integration with Reacta-Control wireless installations
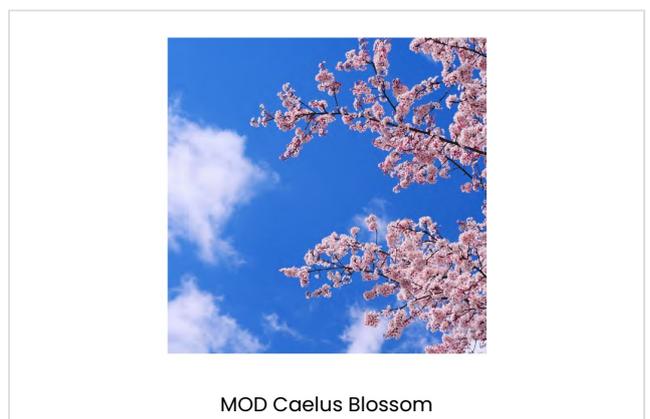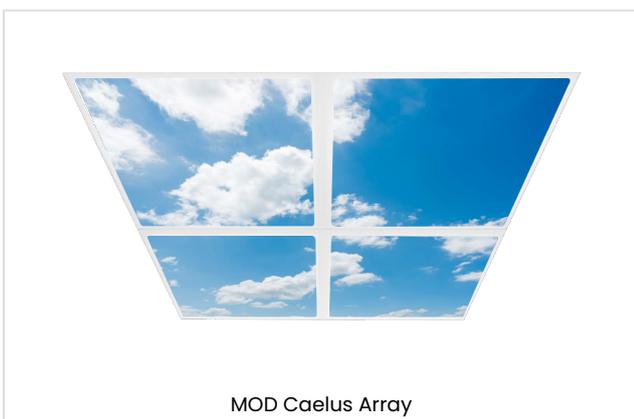
INSTALLATION

❯ Suitable for plasterboard installation when purchased with the appropriate plasterboard kit

❯ Suitable for lay in installation in exposed T ceiling grids and pull up installation in SAS120, Armstrong Orcal 1800 and Burgess Clip-in ceiling, please specify lay in or pull up accordingly. Alugrid compatible variants available.

VARIATIONS

❯ Available with a wide range of colour temperatures and renderings

❯ Available in a range of housing sizes and lumen outputs

❯ Available with a range of images including clouds, trees and blossom, custom images are available on request.

IMAGES

PRODUCT IMAGES

MOD Caelus Cloud

IMPR Caelus

MOD Secure Caelus

MOD Caelus Surface

MOD Caelus Array

MOD Caelus Blossom

MOD Caelus Trees

MOD Caelus Cloud

PROJECT IMAGES

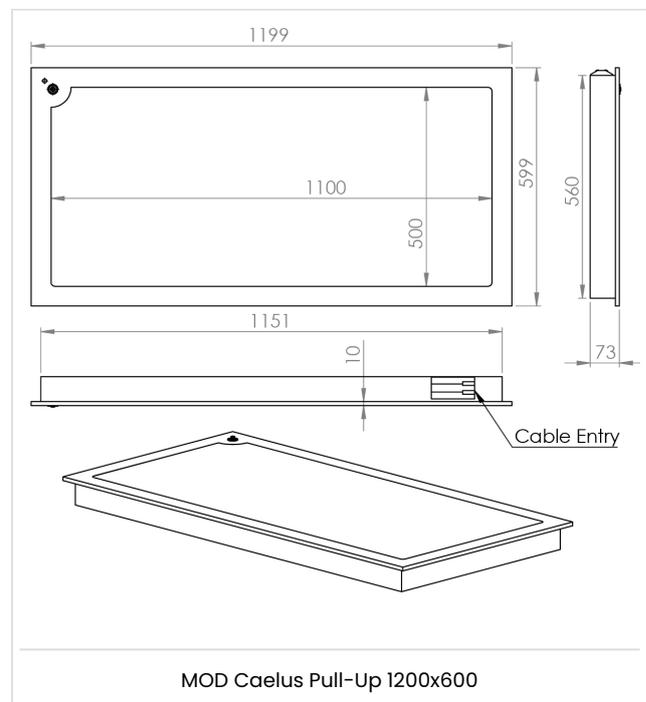Sunderland Hospital using the Mod Caelus in a 3x3 array.
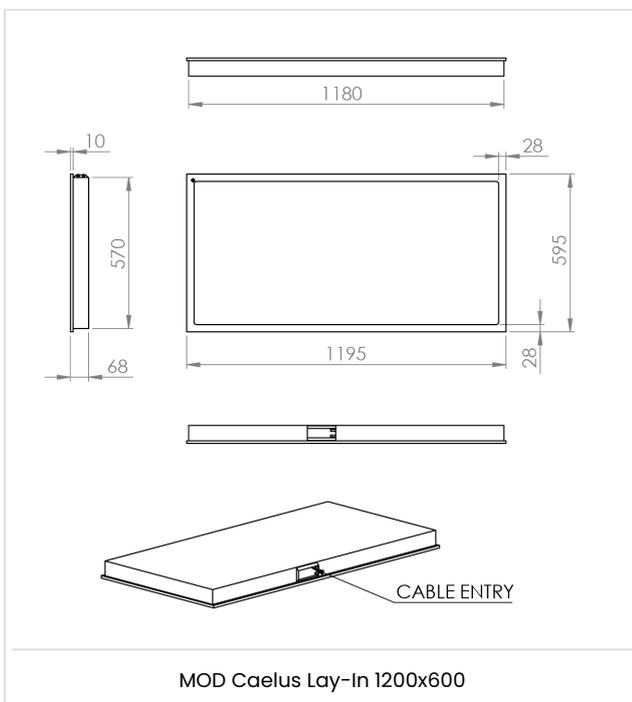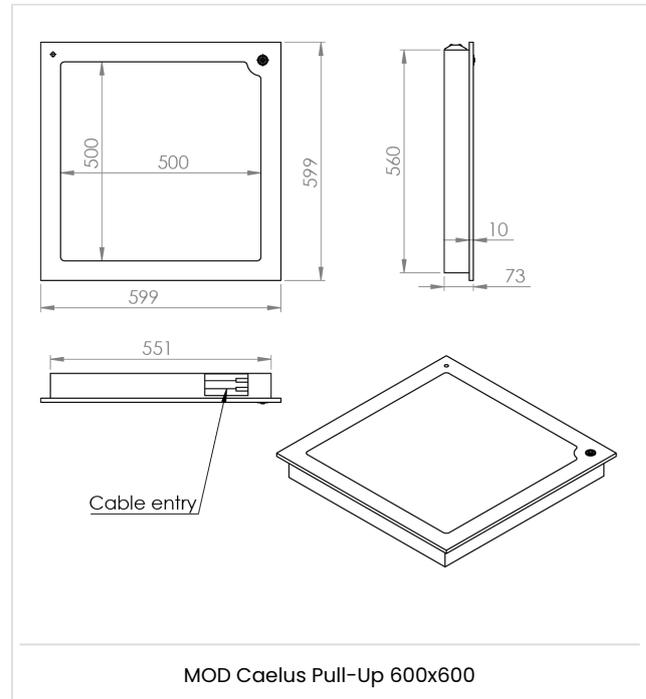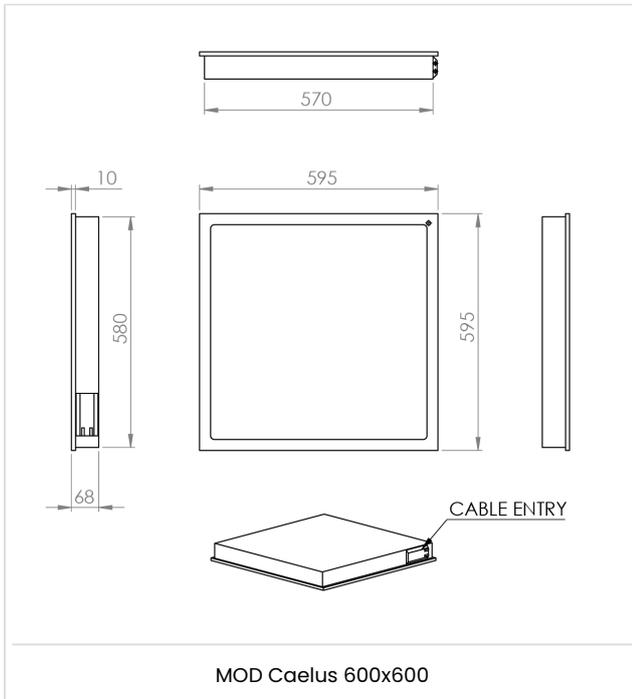

The Entertainer using the MOD Caelus

NHS Dumfries Ophthalmology using the MOD Caelus

NHS Dumfries Ophthalmology using the MOD Caelus

TECHNICAL

MOD Caelus 600x600

MOD Caelus Pull-Up 600x600

MOD Caelus Lay-In 1200x600

MOD Caelus Pull-Up 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

Recessed

Code	Description	Power
MCAR L35 CL1205	Mod Caelus, 600x600, Lay-In, 1,060llm, Cloud Image, Colour 84.	17.9W
MCAR L45 CL1205	Mod Caelus, 600x600, Lay-In, 1,354llm, Cloud Image, Colour 84.	22.5W
MCAR 126 L70 CL1208	Mod Caelus, 1200x600, Lay-In, 2,107llm, Cloud Image, Colour 84.	33.8W
MCAR 126 L90 CL1208	Mod Caelus, 1200x600, Lay-In, 2,709llm, Cloud Image, Colour 84.	41.5W
MCAR L35 2X2 CL12072	Mod Caelus, 600x600, Lay-In, 1,060llm, 4X 600x600 luminaires Cloud, Colour 84	21.6W
MCAP L35 CL1205	Mod Caelus, 600x600, Pull-Up, 1,060llm, Cloud Image, Colour 84.	17.9W
MCAP L45 CL1205	Mod Caelus, 600x600, Pull-Up, 1,354llm, Cloud Image, Colour 84.	22.5W
MCAP 126 L70 CL1208	Mod Caelus, 1200x600, Pull-Up, 2,107llm, Cloud Image, Colour 84.	33.8W
MCAP 126 L90 CL1208	Mod Caelus, 1200x600, Pull-Up, 2,709llm, Cloud Image, Colour 84.	41.5W
MCAR L35 TR12051	Mod Caelus, 600x600, Lay-In, 1,060llm, Tree Image, Colour 84.	17.9W
MCAR L45 TR12051	Mod Caelus, 600x600, Lay-In, 1,354llm, Tree Image, Colour 84.	22.5W
MCAR 126 L70 TR12081	Mod Caelus, 1200x600, Lay-In, 2,107llm, Tree Image, Colour 84.	33.8W
MCAR 126 L90 TR12081	Mod Caelus, 1200x600, Lay-In, 2,709llm, Tree Image, Colour 84.	41.5W
MCAR L35 2X2 TR12074	Mod Caelus, 600x600, Lay-In, 1,060llm, 4X 600x600 luminaires Tree, Colour 84	21.6W
MCAP L35 TR12051	Mod Caelus, 600x600, Pull-Up, 1,060llm, Tree Image, Colour 84.	17.9W
MCAP L45 TR12051	Mod Caelus, 600x600, Pull-Up, 1,354llm, Tree Image, Colour 84.	22.5W
MCAP 126 L70 TR12081	Mod Caelus, 1200x600, Pull-Up, 2,107llm, Tree Image, Colour 84.	33.8W
MCAP 126 L90 TR12081	Mod Caelus, 1200x600, Pull-Up, 2,709llm, Tree Image, Colour 84.	41.5W
MCAR L35 BM12071	Mod Caelus, 600x600, Lay-In, 1,060llm, Blossom Image, Colour 84.	17.9W
MCAR L45 BM12071	Mod Caelus, 600x600, Lay-In, 1,354llm, Blossom Image, Colour 84.	22.5W
MCAR 126 L70 BM12079	Mod Caelus, 1200x600, Lay-In, 2,107llm, Blossom Image, Colour 84.	33.8W
MCAR 126 L90 BM12079	Mod Caelus, 1200x600, Lay-In, 2,709llm, Blossom Image, Colour 84.	41.5W
MCAR L35 2X2 BM12041	Mod Caelus, 600x600, Lay-In, 1,060llm, 4X 600x600 luminaires Blossom, Colour 84.	17.9W
MCAP L35 BM12071	Mod Caelus, 600x600, Pull-Up, 1,060llm, Blossom Image, Colour 84.	17.9W
MCAP L45 BM12071	Mod Caelus, 600x600, Pull-Up, 1,354llm, Blossom Image, Colour 84.	22.5W
MCAP 126 L70 BM12079	Mod Caelus, 1200x600, Pull-Up, 2,107llm, Blossom Image, Colour 84.	33.8W
MCAP 126 L90 BM12079	Mod Caelus, 1200x600, Pull-Up, 2,709llm, Blossom Image, Colour 84.	41.5W

Pull-Up variants of the MOD Caelus are not suitable for array installations
Custom images and other panorama sizes are available on request.
For plasterboard ceilings please specify lay-in luminaire and appropriate plasterboard kit.

Surface

Code	Description	Power
MCAS L35 CL1205	Mod Caelus, 600x600, Surface, 1,060llm, Cloud Image, Colour 84.	17.9W
MCAS L45 CL1205	Mod Caelus, 600x600, Surface, 1,354llm, Cloud Image, Colour 84.	22.5W
MCAS 126 L70 CL1208	Mod Caelus, 1200x600, Surface, 2,107llm, Cloud Image, Colour 84.	33.8W
MCAS 126 L90 CL1208	Mod Caelus, 1200x600, Surface, 2,709llm, Cloud Image, Colour 84.	41.5W
MCAS L35 TR12051	Mod Caelus, 600x600, Surface, 1,060llm, Tree Image, Colour 84.	17.9W
MCAS L45 TR12051	Mod Caelus, 600x600, Surface, 1,354llm, Tree Image, Colour 84.	22.5W
MCAS 126 L70 TR12081	Mod Caelus, 1200x600, Surface, 2,107llm, Tree Image, Colour 84.	33.8W
MCAS 126 L90 TR12081	Mod Caelus, 1200x600, Surface, 2,709llm, Tree Image, Colour 84.	41.5W
MCAS L35 BM12071	Mod Caelus, 600x600, Surface, 1,060llm, Blossom Image, Colour 84.	17.9W
MCAS L45 BM12071	Mod Caelus, 600x600, Surface, 1,354llm, Blossom Image, Colour 84.	22.5W
MCAS 126 L70 BM12079	Mod Caelus, 1200x600, Surface, 2,107llm, Blossom Image, Colour 84.	33.8W
MCAS 126 L90 BM12079	Mod Caelus, 1200x600, Surface, 2,709llm, Blossom Image, Colour 84.	41.5W

Custom images and other panorama sizes are available on request.

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

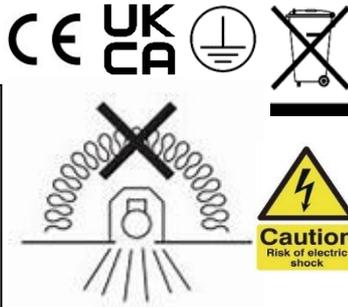| Code	Description
DN	DexNET Node, Wireless Node only.
RLI	Reacta-Link, Wireless Enabled Luminaire
RC	Reacta-Control, Wireless Enabled Luminaire

MISCELLANEOUS

Code	Description
4PM	4 Pole Panel Mount
6PM	6 Pole Panel Mount
IP44	IP44 Below the Ceiling Only
PBK 123	1200x300 Plasterboard Kit
PBK 126	1200x600 Plasterboard Kit
PBK 66	600x600 Plasterboard Kit
RECESSED TETHER KIT TWIN	Secondary fix twin drop.
LSF	Low Smoke Zero Halogen
C**	Select Colour Temperature and Rendering; C83, C84, C85, C865

MOD Lay-In Installation

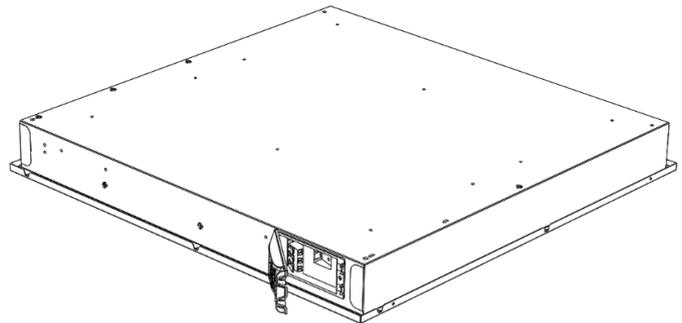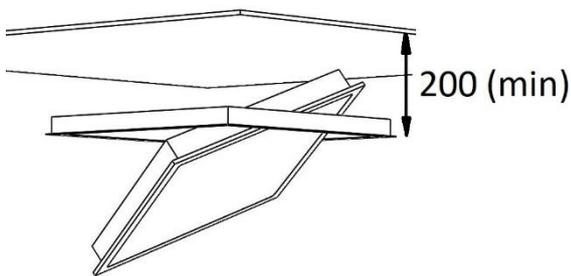**Dextra GROUP PLC**

220-240V / 50-60Hz
IP40
IK08

Terminal Labelling:
Power
L / L1	Switched Live
E / ⏚	Earth
N	Neutral

Emergency
L2	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 similar 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.
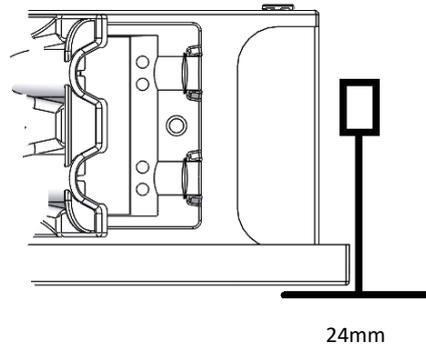
1.

MODR – no brackets supplied. Luminaire is designed to simply lift and tilt in to aperture resting on back of exposed T-bar (15 or 24mm) – NOTE Minimum void to install!

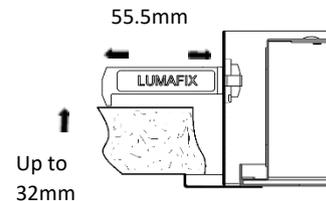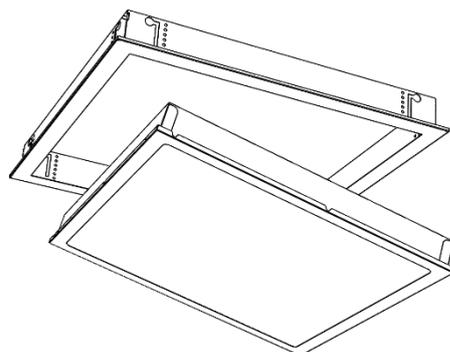200 (min)

2.

FIXTURE SIZES

595 x 595
1195 x 595
1195 x 295
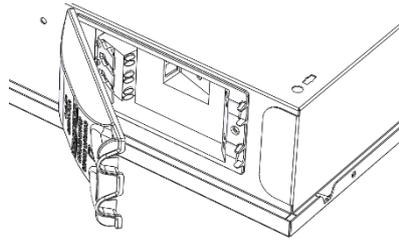

15mm   24mm

3.

Installation in Solid Ceiling

REQUIRED
APERTURE SIZES

612 x 612
1212 x 612
1212 x 312

55.5mm

LUMAFIX

Up to 32mm

MODR fitted in PBK frame (suitable for plasterboard / solid ceilings with thickness up to 32mm). Luminaire lift and tilts as R1.1

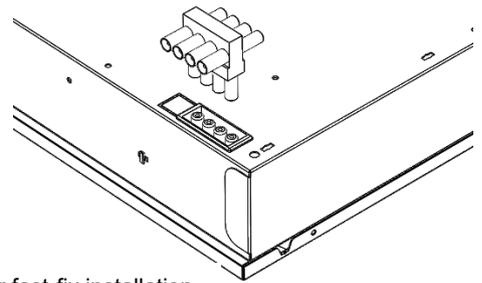**Dextra**
GROUP PLC

4a. Electrical Connection

Standard hard-wire termination.
May be supplied as:
3-pole <LEN>
4-pole <N E 1 2>
6-pole <LENL2 D1 D2>.
If specified, a flex can be factory-fitted.

4b.

Panel socket for fast-fix installation.
Can be supplied as 4-pole (4PM)
or 6-pole (6PM). Will require
necessary T-connectors and leads.

4c.

For alternative configurations
(Autotest emergency /
central battery systems etc.)
luminaires may be supplied
with additional back-box as
seen right. Conductor
identification will be marked
accordingly.
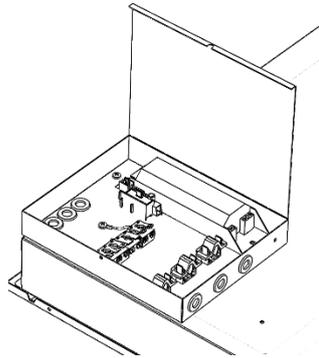
Use cable clamp kit provided with fitting.

5. Options

For luminaires with presence
/ daylight detection, an
integral sensor is fitted as
shown left (specified as R24).
Luminaires configured by IR
remote control (ordered
separately).
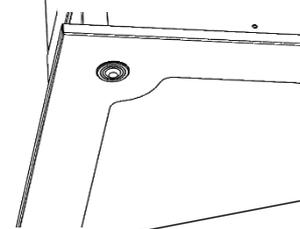
For luminaires with integral
emergency, the battery charge
status LED is located in the corner
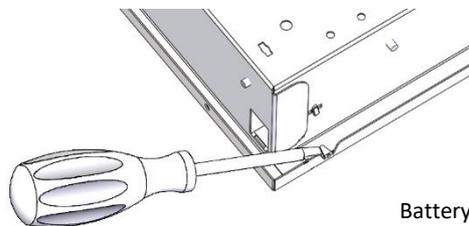of the frame, behind the diffuser.
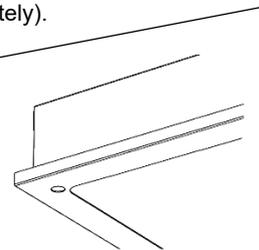
6.

Other options are available not shown here which
essentially have cosmetic differences only (Office
compliant version / PF version etc.). This
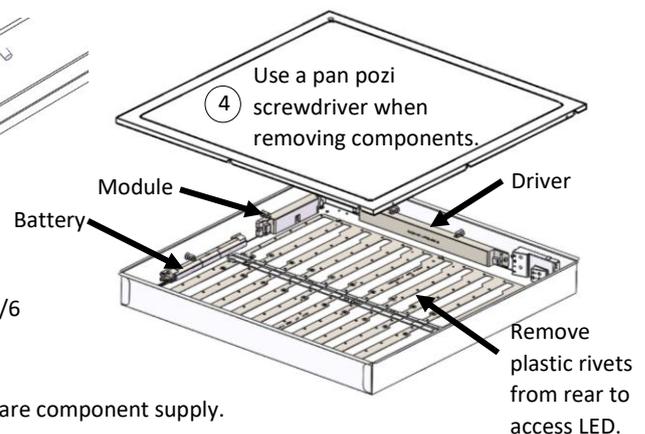installation leaflet applies to these versions.

7.

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) Lift all tabs up on frame to
access housing. For 1200x3/6
remove extra screw fixing.

(4) Use a pan pozi
screwdriver when
removing components.

Module

Driver

Battery

Remove
plastic rivets
from rear to
access LED.

(5) Please contact Dextra for assistance with spare component supply.

Recessed Tether Kit Installation

Dextra
GROUP PLC

230-240V / 50-60Hz

$C \in$

+

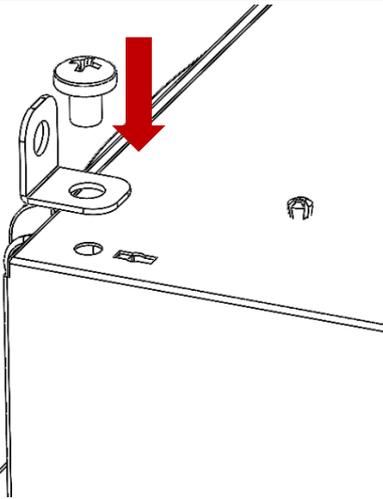**1.**

Attach tether bracket using the M6 taptite screw provided. There are 5.5mm holes provided in the corners of the luminaire body. If not available, it is permissible to drill a 5.5mm hole to accept the bracket.

The 5.5mm hole may be covered with a white label which can be removed if necessary.

2.

Using the suspension wire provided, pass the tether over a suitable suspension point in ceiling (purlin or suitably rated eyehook etc.) and feed the free end through the loop end. Pull tight to secure to ceiling.
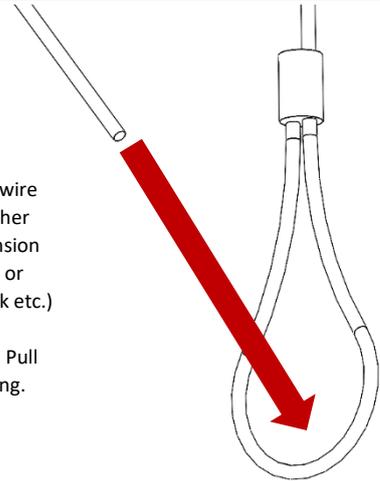
3.

With the suspension gripper attached, pass the free end through the bracket on the luminaire and feed back through the gripper. Pull tight to take up the slack in the suspension wire.
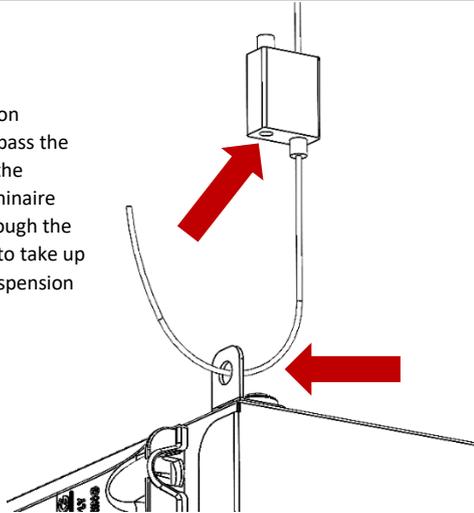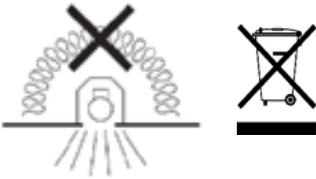
4.

Repeat in opposing corners if multiple tethers are required.

5.

6.

Plasterboard Kit Installation

Dextra GROUP PLC

IP20

1. For use with lay-in luminaires

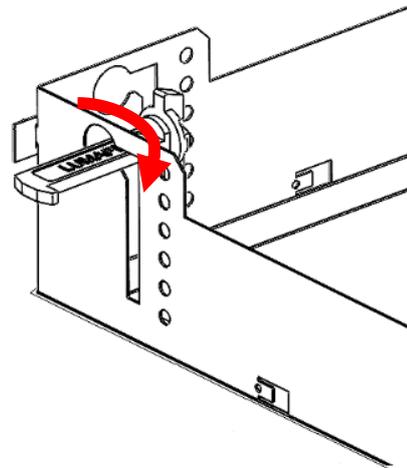|	Cut out sizes (mm)	O/A size
PBK 66	612x612	647x647
PBK 126	1212x612	1247x647
PBK 123	1212x312	1247x347

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.

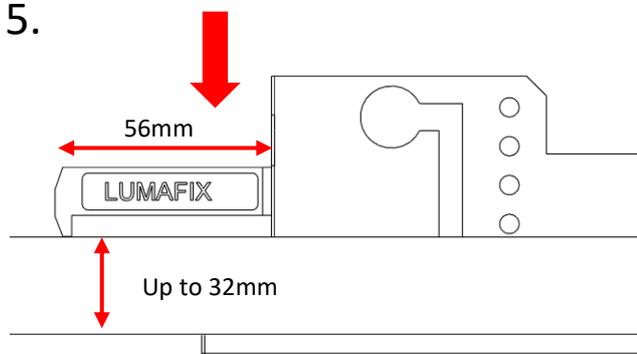

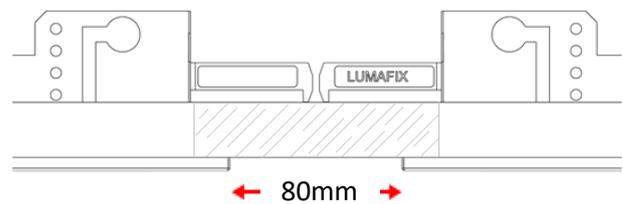**5.**

56mm

LUMAFIX
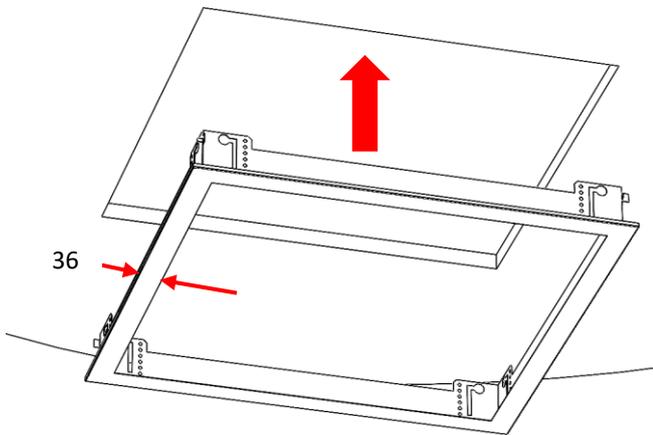
Up to 32mm

Ceilings with thickness up to 32mm

6.

LUMAFIX

← 80mm →

Note minimum distance between frames

Plasterboard Kit Installation

Dextra
GROUP PLC

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.