

THORN

Plane

Recessed modular outdoor lighting using LED technology



Developments in LED technology, and Thorn's own advances, have produced Plane, an innovative modular fitting combining the best of lighting design performance and simplicity in integration

Plane is a new fitting for ground and wall recessed lighting guidance and signalling. With its unique modular concept and range of colour options, Plane utilises the latest LED technology to provide a huge variety of single plane dimensions with superbly uniform illumination, and exceptionally low energy consumption.

Why LED?

The character of LED technology is quite unique, enabling it to achieve levels of performance and functionality unobtainable with alternative lighting methods.

"Plane: a two dimensional luminaire defining shape and form to suit the environment, creating colourful rectangles of light" Patrick Rimoux

- Maintenance cost saving
- Long operating life
- High efficiency
- Low wattage
- Low voltage
- Cold beam, no UV, instant light
- High optical performance, beam control
- Choice of colours
- Dynamic colour change (RGB) possibilities
- Dimming





Plane

Recessed modular
outdoor lighting

Designer: Patrick Rimoux

- Modular construction catering for both standard and project specific requirements
- High surface uniformity
- Available for ground or wall recessing
- Choice of colour output and also colour change lighting technology (RGB) available to order
- Sealed to IP67
- Anti-slip glass available on request
- Recessing box for concrete applications available

Lamps

☒ LED (Pre-fixed PCB with array of LED's)

Materials/Finish

Body/Frame: extruded aluminium textured grey powder coated finish (close to RAL 9007). Alternative RAL colour available on request for powder coat only. Recessing cable protection (tube): PVC. Glass: tempered glass 10mm. Gasket: silicone. Anchorage feet for ground installation: stainless steel. Support for wall and concrete installation: aluminium.

Installation/Mounting

Standard sizes are offered (see ordering guide). Larger sizes available on request, up to 1000 x 600mm. Suitable for ground, dry wall and concrete wall recessing. 1 glanded cable entry PG13 with terminal block for 2 x 1.5mm² max for outside diameter 6 - 12mm circular section cable. Through wiring possible.

Ground recessed installation: minimum depth required is 350mm. To ensure efficient drainage, gravel must be used to a depth of 300mm beneath the housing. Cable protection (tube) 80mmØ and 250mm long. Four anchorage feet will fix the fitting in the ground. Static load bearing is 500kg.

Anti-slip glass available on request.

Dry wall recessed installation: minimum depth required is 72mm. Four M4 screws fix the luminaire into the frame dedicated for wall applications. Dry wall maximum thickness is 16mm.

Concrete wall recessed installation: 82mm minimum depth required. Similar to wall installation, with an extra recessing box dedicated for concrete.

Standards

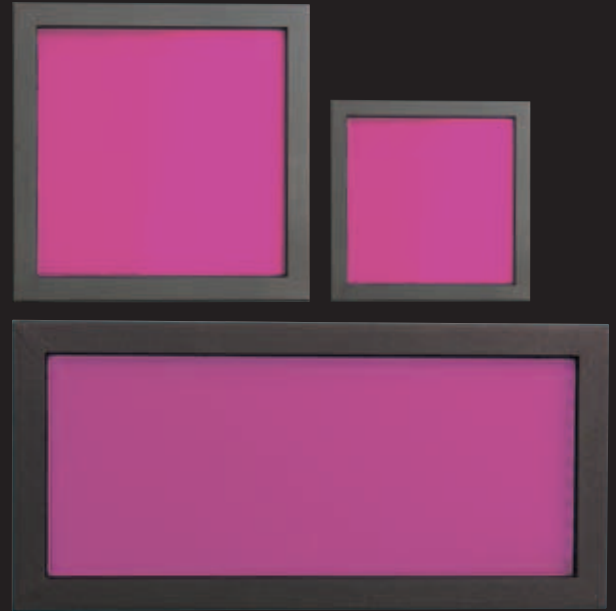
Designed and manufactured to comply with EN 60598. ☒ Class II Electrical. Ta -20/+40°C IK08/5 Nm impact resistance ♦ IP67 CE

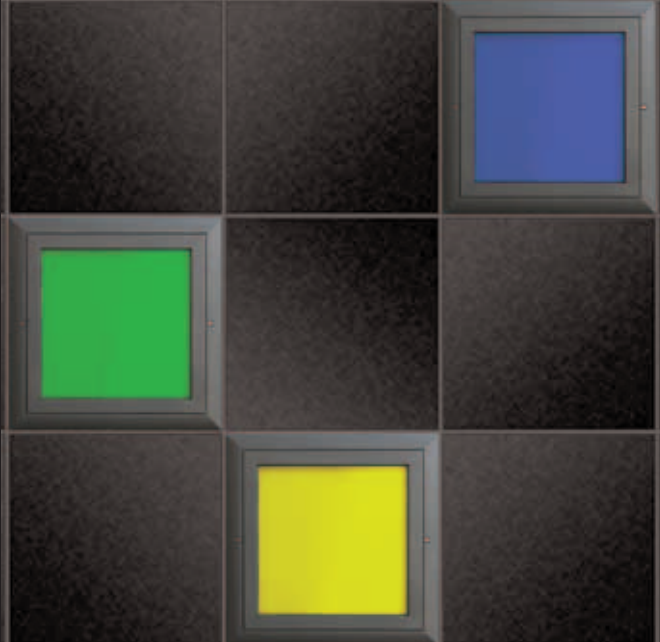
Specification

To specify state: Square indoor/outdoor, ground recessed installation with 350mm minimum depth or wall installation with 72mm minimum depth or concrete installation with 82mm minimum depth, LED luminaire with flexible sizes available on request. Sealed to IP67. Choice of colour or RGB employing LED light source. Customised dimensions (max 1000mm x 600mm) and anti-slip glass available on request. As Thorn Plane.

Applications

Plane has been designed to produce a wide range of stunning effects for ground and wall recessed lighting





Applications

- Wall recessed – guidance
- Wall recessed – art
- Ground recessed – guidance
- Colour change

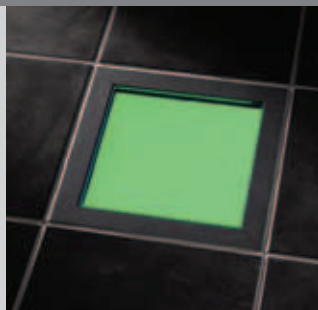
Colours

Plane is available with the following colour options:

- White (4000K)
- Blue
- Red
- Amber
- Green

In addition, dramatic colour changes can be achieved with Plane RGB. These versions are available to order and can be controlled with an RGB sequencer, eventually completed with an RGB booster.

Ordering Guide & Dimensions



The Modular System

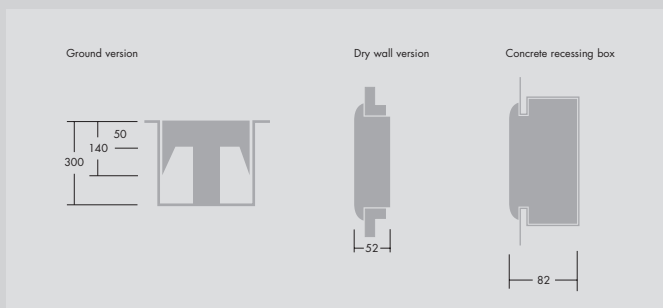
A major attraction of the LED Plane range is its ability to provide highly uniform illumination over a wide variety of dimensions both architectural standard or bespoke.

Standard dimensions

- 140 x 140mm
- 140 x 290mm
- 140 x 440mm
- 200 x 200mm
- 300 x 300mm
- 400 x 400mm

Bespoke dimensions (for ground versions)

- Minimum width available – 140mm
- Minimum length available – 140mm
- Maximum width available – 600mm
- Maximum length available – 1000mm



Ordering Guide

Supplied complete with LEDs and transformer, except RGB versions.
 For ground recessed version order luminaire and anchorage feet.
 For dry wall recessed version order luminaire and dry wall support.
 For concrete wall recessed versions order luminaire, dry wall support and concrete wall box.

Description	Wt (kg)	SAP Code	Cat.No.
Recessed Luminaire			
PLANE MRE 140X140 WHI	1.1	96219641	PLANE140W
PLANE MRE 140X140 BLU	1.1	96219642	PLANE140BL
PLANE MRE 140X140 RED	1.1	96219676	PLANE140R
PLANE MRE 140X140 GRN	1.1	96219692	PLANE140G
PLANE MRE 140X140 AMB	1.1	96219686	PLANE140Y
PLANE MRE 140X290 WHI	2.6	96219639	PLANE290W
PLANE MRE 140X290 BLU	2.6	96219640	PLANE290BL
PLANE MRE 140X290 RED	2.6	96219677	PLANE290R
PLANE MRE 140X290 GRN	2.6	96219691	PLANE290G
PLANE MRE 140X290 AMB	2.6	96219685	PLANE290Y
PLANE MRE 140X440 WHI	4.3	96219637	PLANE440W
PLANE MRE 140X440 BLU	4.3	96219638	PLANE440BL
PLANE MRE 140X440 RED	4.3	96219637	PLANE440W
PLANE MRE 140X440 GRN	4.3	96219690	PLANE440G
PLANE MRE 140X440 AMB	4.3	96219684	PLANE440Y
PLANE MRE 200X200 WHI	2.6	96219635	PLANE200W
PLANE MRE 200X200 BLU	2.6	96219636	PLANE200BL
PLANE MRE 200X200 RED	2.6	96219695	PLANE200R
PLANE MRE 200X200 GRN	2.6	96219689	PLANE200G
PLANE MRE 200X200 AMB	2.6	96219680	PLANE200Y
PLANE MRE 300X300 WHI	6.6	96219633	PLANE300W
PLANE MRE 300X300 BLU	6.6	96219634	PLANE300BL
PLANE MRE 300X300 RED	6.6	96219694	PLANE300R
PLANE MRE 300X300 GRN	6.6	96219688	PLANE300G
PLANE MRE 300X300 AMB	6.6	96219678	PLANE300Y
PLANE MRE 400X400 WHI	11.6	96219631	PLANE400W
PLANE MRE 400X400 BLU	11.6	96219632	PLANE400BL
PLANE MRE 400X400 RED	11.6	96219693	PLANE400R
PLANE MRE 400X400 GRN	11.6	96219687	PLANE400G
PLANE MRE 400X400 AMB	11.6	96219679	PLANE400Y
Accessories			
PLANE ANCHORAGE FEET FOR GROUND INSTALLATION – SET OF 4	0.4	96219704	PLANEGAF4

Description	Wt (kg)	SAP Code	Cat.No.
Dry Wall Supports			
PLANE 140x140 DRY WALL SUPPORT	0.7	96219697	PLANEWDS140
PLANE 140x290 DRY WALL SUPPORT	0.9	96219699	PLANEWDS290
PLANE 140x440 DRY WALL SUPPORT	1.1	96219700	PLANEWDS440
PLANE 200x200 DRY WALL SUPPORT	0.9	96219701	PLANEWDS200
PLANE 300x300 DRY WALL SUPPORT	1.1	96219698	PLANEWDS300
PLANE 400x400 DRY WALL SUPPORT	1.4	96219703	PLANEWDS400
Concrete Wall Box			
PLANE CONCRETE RECESSING BOX 140x140	0.3	96217427	PLANECRB140
PLANE CONCRETE RECESSING BOX 140x290	0.5	96217428	PLANECRB290
PLANE CONCRETE RECESSING BOX 140x440	0.7	96217429	PLANECRB440
PLANE CONCRETE RECESSING BOX 200x200	0.5	96217430	PLANECRB200
PLANE CONCRETE RECESSING BOX 300x300	0.7	96217431	PLANECRB300
PLANE CONCRETE RECESSING BOX 400x400	1	96217432	PLANECRB400

RGB versions available to order.
 WHI - white, BLU - blue, RED - red, GRN - green, AMB - amber.

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THORN

Lighting people and places

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