



FOLIO
THE CONTEMPORARY LED PANEL

Concord

THE POWER OF THE HUMAN MIND
LED TO FOLIO

I CDNUOLT BLVEIEE TAHT I CLUOD AULACLTY
UESDNATNRD WAHT I WAS RDANIEG. **FOLIO**
IS THE BSET THNIG SNCIE FULOSERCENT
TORFFERS. GEERN AS A LAEF, TIHN AS A FEW
QURIES OF PEPAR. AOCCDRNIG TO **CONCORD**
WIHT THE PHAONMNEAL PWEOR OF **FOLIO**
IT DSENO'T MTAETR IN WAHT OERDR THE
LTTERES IN A WROD **FOLIO** IS THE OLN
ONE TO REBEMEMR. REQEUNRING OLN
TAHT **FOLIO** IS ODERED COLERRCTY IT CAN
BE ESAILY UESD AND SEEN ANWHEYER. THE
HUAMN MNID DEOS NOT RAED ERVEY LTETER
BY ISTLEF AND LKIE **FOLIO** CNAT BE MSSEED
WTIH. AZANMIG HUH? YAEH NO DUOBT **FOLIO**
ISVREY CEVLER AND WILL PALY AN IPMORANTT
PRAT IN HLEPPNIG TO SVAE THE PANLET!

THE FOLIO LED PANEL BRINGS
BROAD FUNCTIONALITY THROUGH
A SERIES OF CONTEMPORARY
MOUNTING ACCESSORIES



FOLIO LED PANEL SERIES IS A CONTEMPORARY SOLUTION TO THE AGE OLD 'TROFFER LIGHT'

Ultra slim, only 13mm thick but with an extremely rigid structure trimmed with a trendily designed extruded aluminium frame finished either in anodised silver or white powder coated. Folio comprises of a high transmittance 'frosted glass' look acrylic diffuser engendering an impression of being a skylight. This fashionable update on the traditional "troffer" is both highly efficient but also simply controlled; available standard with dimming options*.

*70W cannot be dimmed

ENERGY & LIFE

UV free and IRO of 40% energy saving when compared to like for like fluorescent modules. The Folio enjoys minimal and easier maintenance just requiring an occasional surface wipe down to maintain a pristine look and performance* throughout its rated 50,000 hour life.

*Allowing a higher MF to be utilized.

ADDITIONAL ACCESSORY MOUNTING OPTIONS

In addition to simply "laying in" on traditional "t-bar" ceilings, a comprehensive range of recessing frames also allows simple mounting into gyprock, timber, metal ceilings. Features include a high quality universal mounting frame accessory allowing both surface mounting* and pendant options. Designed to maintain a minimalistic profile the soft edged design gives the impression the folio frame is just kissing the mounted surface.

* 70W surfaced mount option due to driver height restrictions is not possible unless a rebate solution is utilised.

See page 13 for install advice.

APPLICATIONS

The high level of Folio's robustness make it ideal for demanding public spaces such as education, commercial, medical and transport hubs and would perform equally as well in retail or a whole host of other applications.

LED lighting technology is extremely efficient and LED recessed fixtures are compatible with daylight harvesting systems and various control systems. Increased efficiency means significant savings for consumers when compared to traditional fluorescent. Coupled with the reduced need for maintenance, consumers will experience significant overall cost savings.

LED light quality is superior to fluorescent and no hazardous materials are used in the construction of these fixtures.

RETROFIT VS. DROP-IN REPLACEMENT

In the interest of cost savings, consumers might choose to install LED 'drop-in' replacement tubes that operate with existing fluorescent ballasts. While this option may seem simple and inexpensive, it is an inferior and short-term solution to a full LED recessed lighting retrofit. The retrofit provides many advantages including performance, safety, durability and theft-deterrence.

- .. Visually appealing light; High 80+ CRI
- .. Easily installs in the most commonly used T-bar ceiling grids
- .. Contains no lead, glass or mercury -RoHS compliant
- .. Highly efficient lighting luminaire
- .. Long life: L70 @ 50,000 hours

POLYMETRICS MAKE ALL THE DIFFERENCE

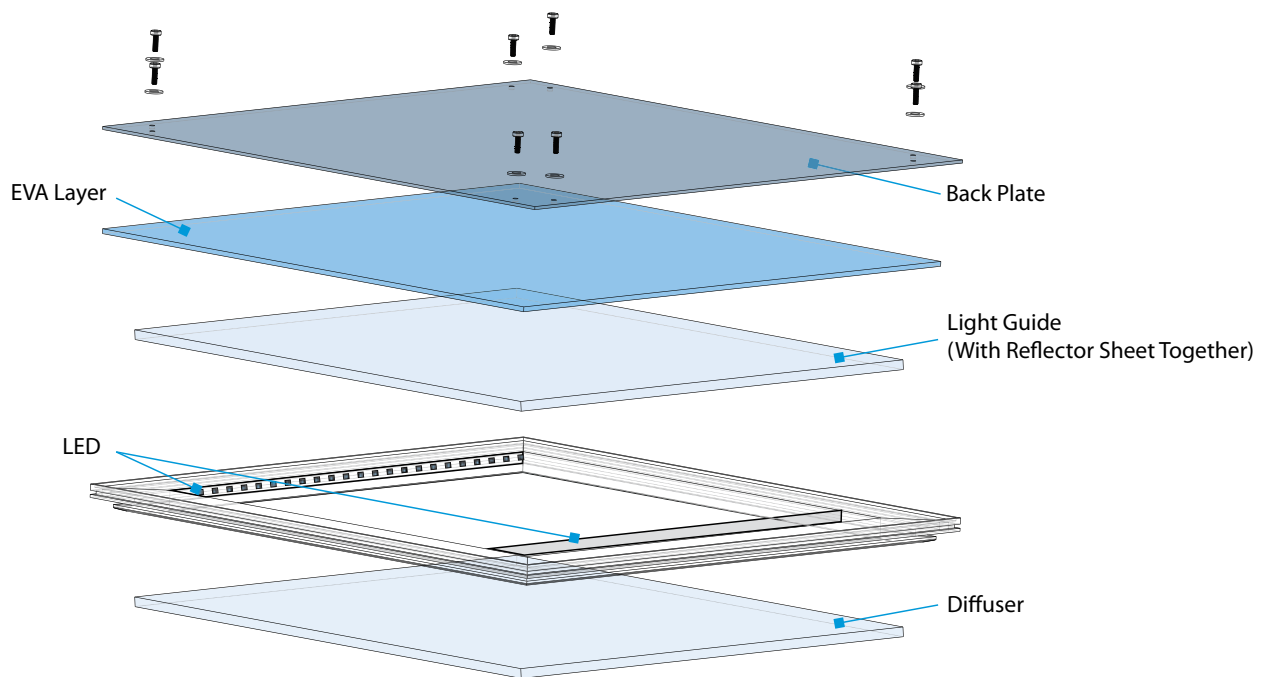
FOLIO; FOLI, ABLATIVE OF FOLIUM, LEAF OF PAPER, FROM LATIN, LEAF.

A term for a common method of arranging sheets of paper into book, four sheets of paper or parchment folded to form leaves, a Folio.

Folio uses a three layer refractive system and back plate, which provides a perfectly uniform light distribution across the diffuser: LEDs are placed on the sides emitting into the diffuser with polymeric light guides which collect the light and distribute across the diffuser substrate evenly.

For rectangular Folio (300 x 600 / 300 x 1200 / 600 x 1200), the LEDs are placed on 2 sides.

But for the foursquare Folio (300 x 300 / 600 x 600), LEDs are placed on all 4 sides.



TECHNICAL

VISUAL DISPLAY UNITS

Louvered troffers were designed to address the in-adequacies of older VDU screen construction. Curved CRT monitors with shiny glass fronts would show negative contrast light detail on dark background views, common amongst DOS based programs. These screens would reflect any bright surface (lighting, windows and even white shirts) as distracting images over "on-screen detail" making it difficult to read.

Modern flat screen displays have better reflection control and most software applications use conventional, black detail on light background contrast virtually eliminating the need for the restricted shielding angles of louvered fittings.

The key point is that low brightness louvered fittings were developed and widely applied in response to issues with veiling reflection images seen in early model VDU screens. The dynamics of that have now changed to the point where louvered fittings are seldom necessary so we can now confidently choose alternatives that don't possess their bad habits.

DARK CEILINGS

Louvered, or low brightness troffers would generate shade patterns that give rise to dark upper wall sections and have a limited bright appearance within ceilings giving rise to a room appearance often referred to as the 'cavern effect'. Louvered fittings with their sharp cut off angles set up contrast issues within the workspace, where considerably brighter horizontal workstation surfaces were seen in the same visual field as far lower brightness vertical surfaces of surrounding areas. Designers had to compensate with supplementary lighting to cater for this simultaneous view

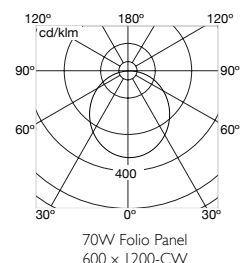
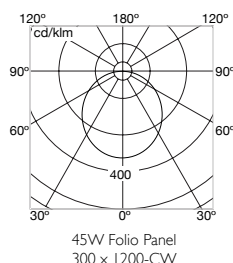
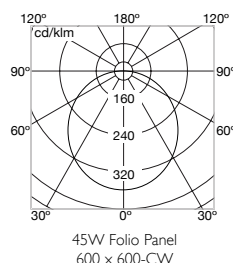
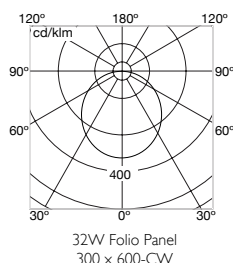
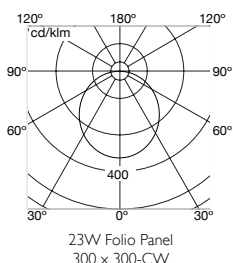
of contrasting surfaces. The dispersive light distribution of the Folio projects light that reaches the upper walls and the uniform brightness of the Folio panel provides a bright element within the ceiling plane that is lacking from a louvered fitting. With the addition of dimming control Concord can add a degree of manipulation over the whole lit appearance of a space that louvered fittings would not be able to match.

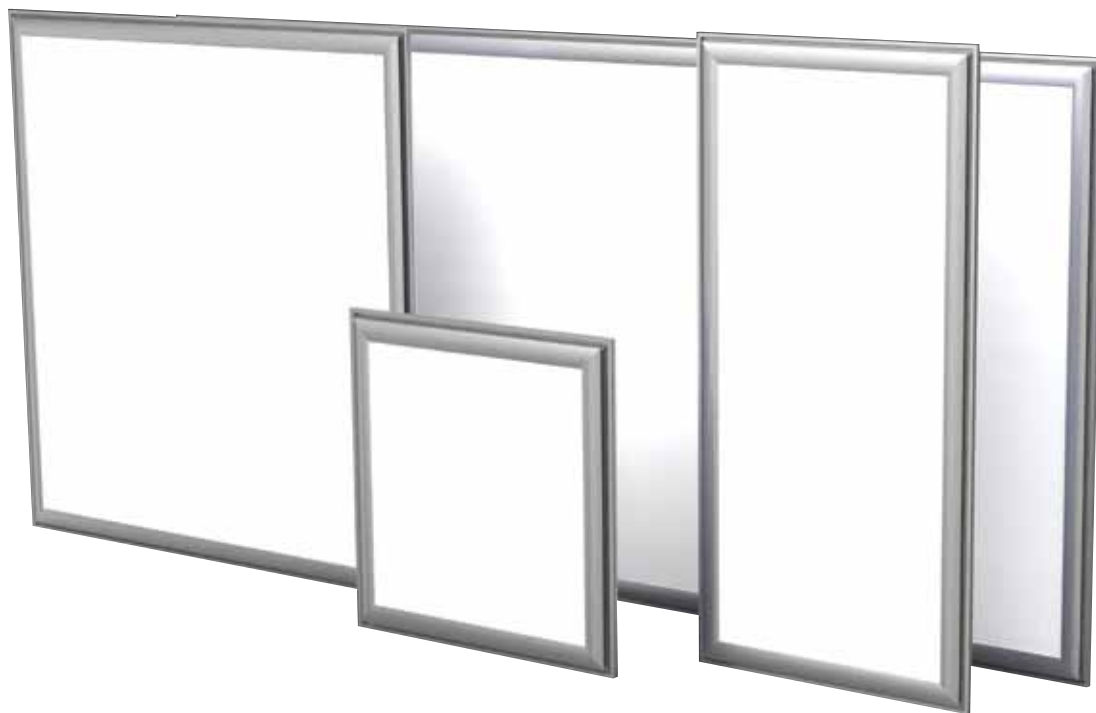
VERTICAL ILLUMINATION

Providing a uniform vertical light helps to reduce the cavern effect, traditional louvered fixtures have sharp cut off's, contributing further to the problem of managing simultaneous contrast. Folio's distribution pattern provides good vertical uniformity of illumination.

UNIFORMITY

With the dispersive distribution pattern of Folio comes increased uniformity across the work plane and increased spacing. Alternatively, where 'one for one' replacement is the preferred strategy the use of a control system to vary the light output levels will increase luminaire life and gain further energy savings.





FEATURES

- .. 90% light transmission with perfect 'flashing'
- .. Textured 'frosted glass' acrylic
- .. High luminous efficacy up to 79lm/w
- .. PFC ≥ 90
- .. Impressive uniformity of light distribution
- .. High quality construction and mitred fit
- .. Wide choice of panel sizes
- .. Lay-in standard T-bar ceiling
- .. Stylish accessories for surface, pendant and recessed mounting
- .. Accessory recessing frame for gyproc and other ceiling types
- .. Standard dimmable DALI, 1-10v & PTB (70w 600mm x 1200mm currently non dimmable)
- .. Rated 50 000hrs
- .. Tool less plug and play format. Driver mains side is fitted with a flex and plug. Secondary side is fitted with a quick connect socket. Fixture is fitted with a long tail and quick connect plug
- .. Designed and engineered in Australia

FOLIO HAS AN IMPRESSIVE UNIFORMITY OF LIGHT DISTRIBUTION

FOLIO ORDER CODES

ORDER CODES	DALI, 1-10V & PTD DIMMABLE	WEIGHT	COLOUR	SYSTEM WATTS	LUMENS	COLOUR TEMPERATURE*
K1030342D	300mm X 300mm X 13mm	1.2kg	White	23w	1505	4000K
K1060342D	300mm X 600mm X 13mm	2.3kg	White	32w	2113	4000K
K1120342D	300mm X 1200mm X 13mm	4.6kg	White	45w	3603	4000K
K1060642D	600mm X 600mm X 13mm	4.6kg	White	45w	3172	4000K
K1030341D	300mm X 300mm X 13mm	1.2kg	Silver	23w	1505	4000K
K1060341D	300mm X 600mm X 13mm	2.3kg	Silver	32w	2113	4000K
K1120341D	300mm X 1200mm X 13mm	4.6kg	Silver	45w	3603	4000K
K1060641D	600mm X 600mm X 13mm	4.6kg	Silver	45w	3172	4000K
ORDER CODES	NON DIMMABLE	WEIGHT	COLOUR	SYSTEM WATTS	LUMENS	COLOUR TEMPERATURE*
# K1120642	600mm X 1200mm	8.9kg	White	70w	4134	4000K
# K1120641	600mm X 1200mm	8.9kg	Silver	70w	4134	4000K

Check with your SLA Representative for the availability of a dimming version.

Note: See page 11 for matching silver surface mounting frame accessory

* 3000K options on request

FOLIO ECO ORDER CODES

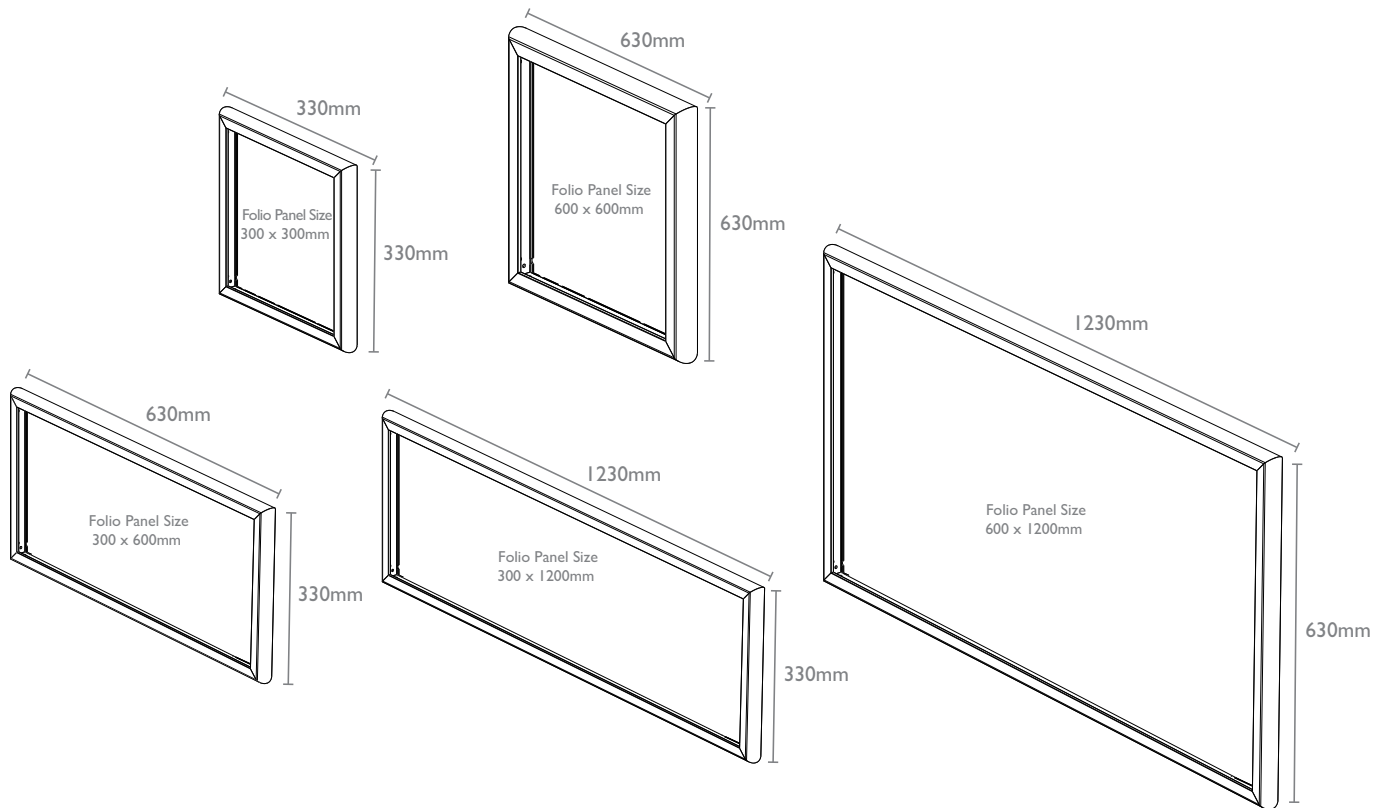
ORDER CODES	NON DIMMABLE	WEIGHT	COLOUR	SYSTEM WATTS	LUMENS	COLOUR TEMPERATURE*
K1120342E	300mm X 1200mm X 13mm	4.6kg	White	45w	3603	4000K
K1060642E	600mm X 600mm X 13mm	4.6kg	White	45w	3172	4000K
K1120341E	300mm X 1200mm X 13mm	4.6kg	Silver	45w	3603	4000K
K1060641E	600mm X 600mm X 13mm	4.6kg	Silver	45w	3172	4000K

* 3000K options on request

FOLIO SURFACE FRAME DIMENSIONS



SURFACE FRAME DIMENSIONS



FOLIO UNIVERSAL FRAME MOUNTING KIT

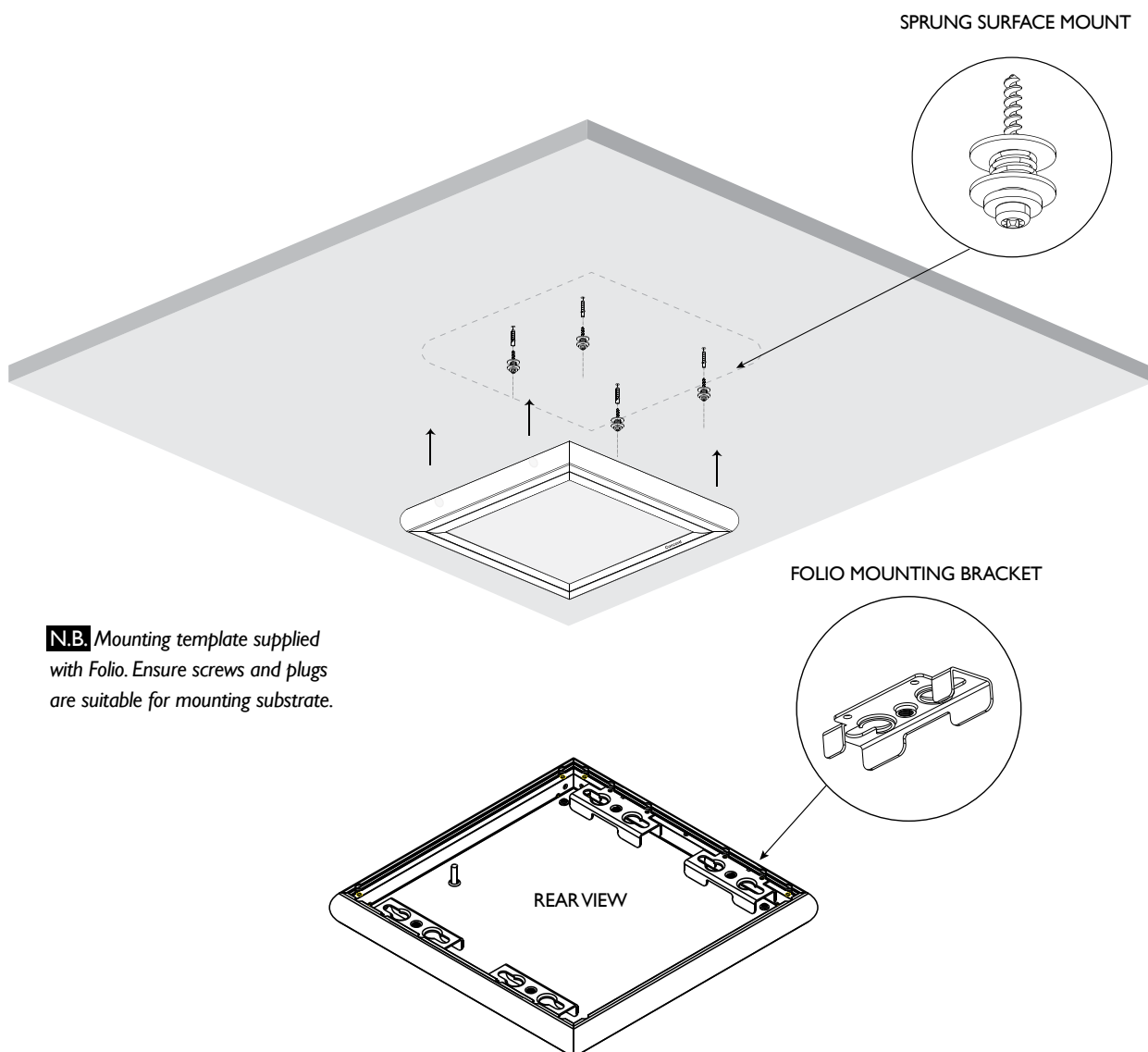
ORDER CODES	DESCRIPTION	FOLIO DIMENSIONS	FRAME DIMENSIONS	COLOUR
I0303IU	Folio Wall/Ceiling/Pendant	300 x 300mm	330 x 330 x 35	Silver Anodised
I03032U	Folio Wall/Ceiling/Pendant	300 x 300mm	330 x 330 x 35	White Powder Coated
I0603IU	Folio Wall/Ceiling/Pendant	300 x 600mm	630 x 330 x 35	Silver Anodised
I06032U	Folio Wall/Ceiling/Pendant	300 x 600mm	630 x 330 x 35	White Powder Coated
I0606IU	Folio Wall/Ceiling/Pendant	600 x 600mm	630 x 630 x 35	Silver Anodised
I06062U	Folio Wall/Ceiling/Pendant	600 x 600mm	630 x 630 x 35	White Powder Coated
I1203IU	Folio Wall/Ceiling/Pendant	300 x 1200mm	1230 x 330 x 35	Silver Anodised
I12032U	Folio Wall/Ceiling/Pendant	300 x 1200mm	1230 x 330 x 35	White Powder Coated
I1206IU	Folio Wall/Ceiling/Pendant	600 x 1200mm	1230 x 630 x 35	Silver Anodised
I12062U	Folio Wall/Ceiling/Pendant	600 x 1200mm	1230 x 630 x 35	White Powder Coated

* See pg 12 for surface mounted special installer requirements

SURFACE WALL & CEILING MOUNTING

GENERIC SURFACE WALL & CEILING MOUNTING FOLIO FRAME

High quality universal frame accessory allowing surface mounting by means of unique but simple sprung 'key hole' mounting.



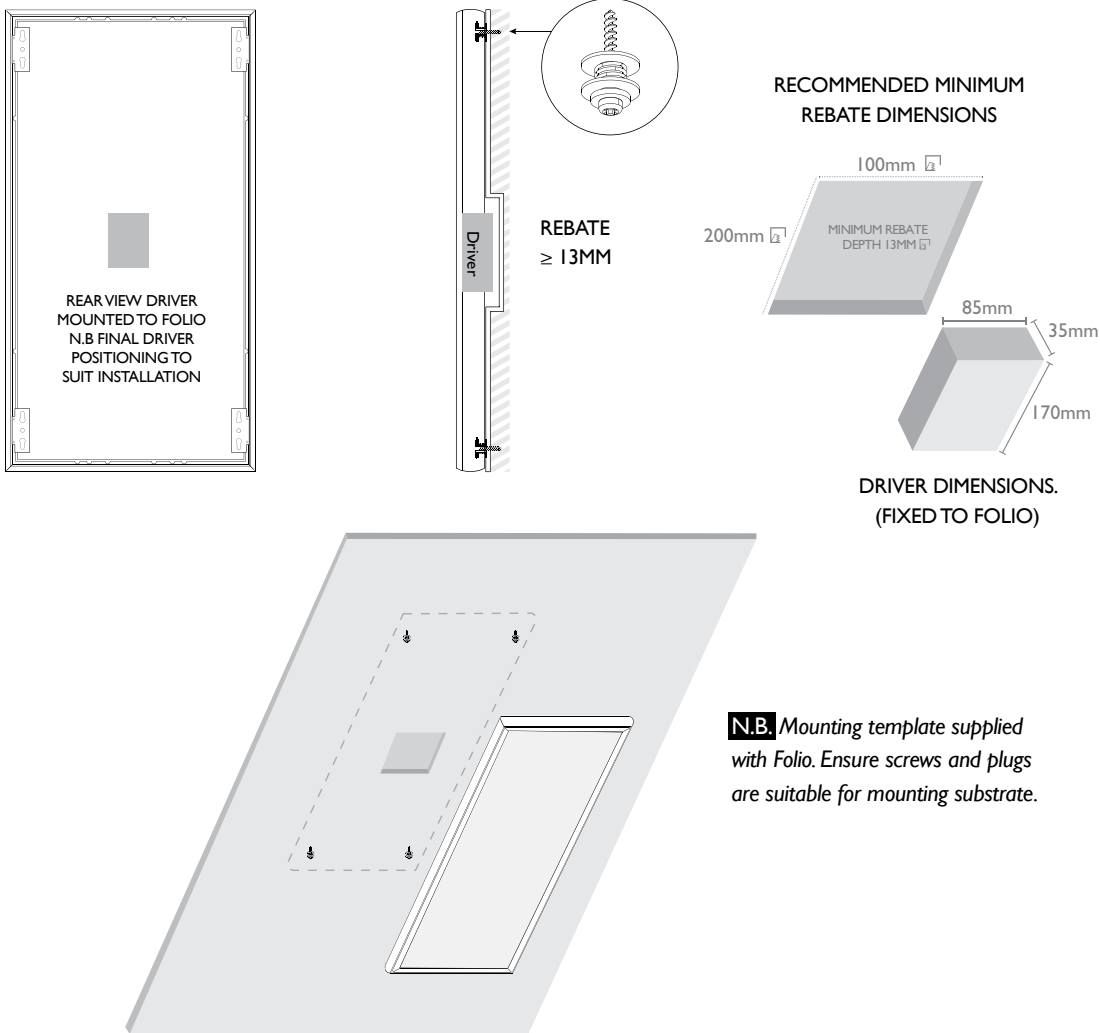
SURFACE & SEMI REBATED (70W 1200 X 600MM ONLY) WALL & CEILING MOUNTING

FOR THE 1200 X 600MM FOLIO FRAME COMBINATION ONLY

Note: The driver supplied and required with the 70w 1200 x 600mm FOLIO is currently marginally deeper than the universal frame. When surface mounting the driver requires a rebate to accommodate mounting onto the surface.

Rebate and driver position can be adjusted to suit.

INSTALLATION ADVICE FOR 54W ONLY



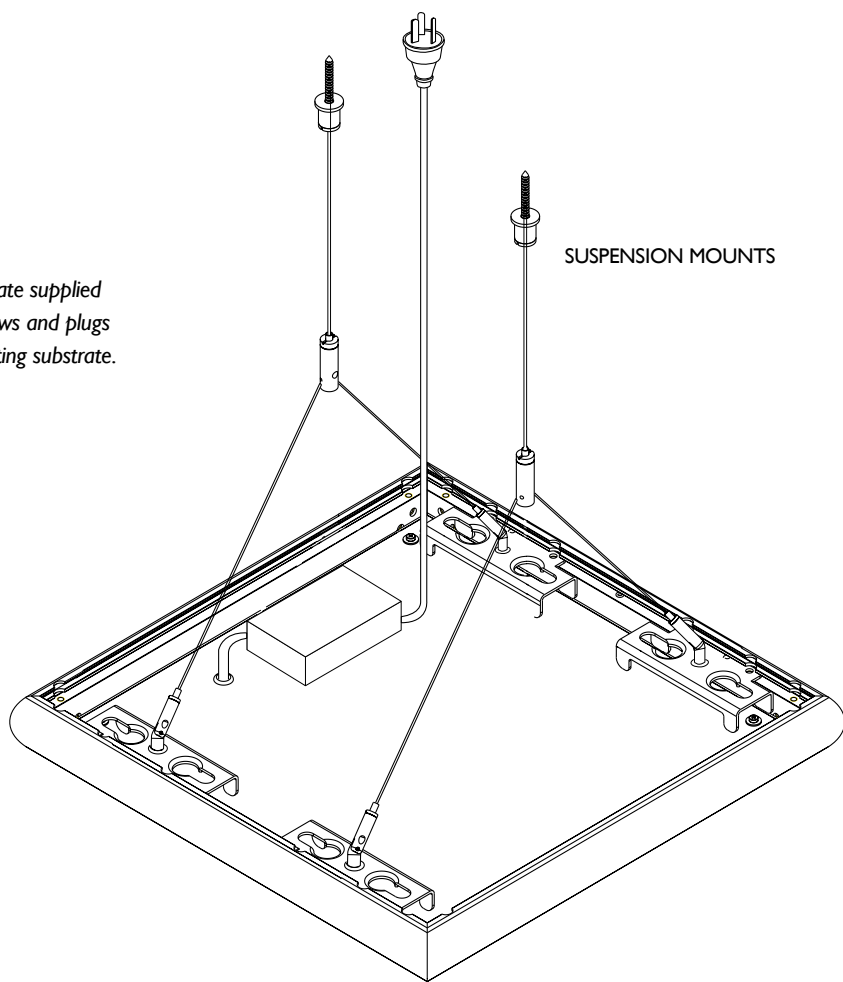
SURFACE PENDANT MOUNTING

High quality universal mounting frame accessory allows pendant mounting.

CEILING ROSE MOUNTING KIT

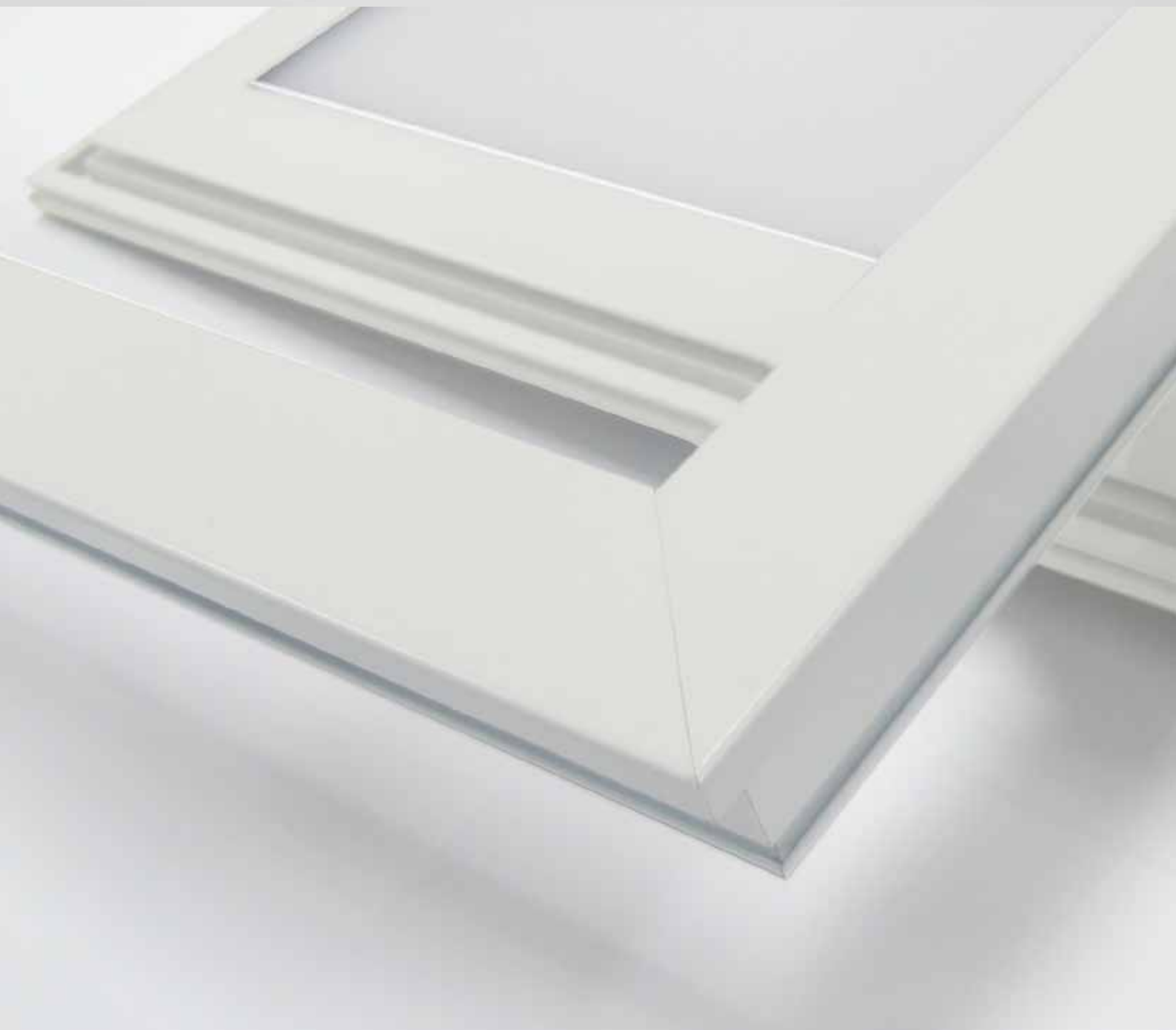
ORDER CODES	COLOUR
5LY91106	White
5LY91105	Grey

N.B. Mounting template supplied with Folio. Ensure screws and plugs are suitable for mounting substrate.

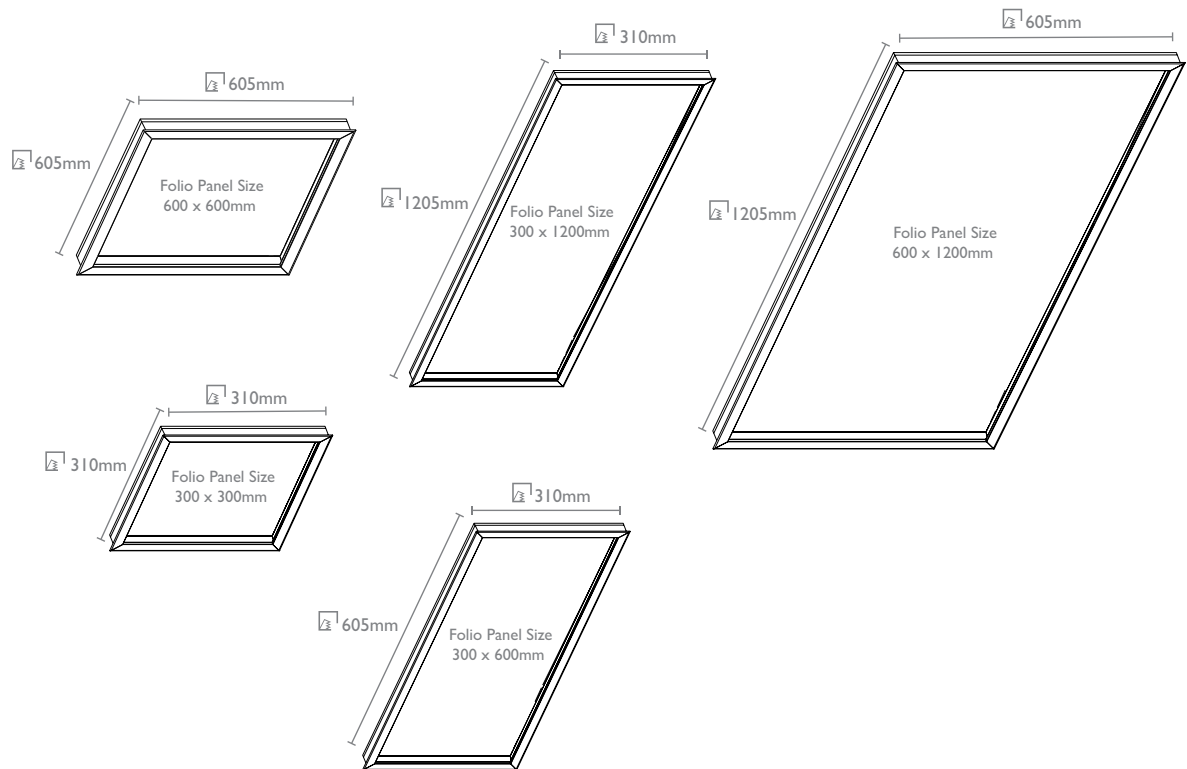




RECESSING FRAME DIMENSIONS



RECESSED FRAME CUT OUT DIMENSIONS



FOLIO RECESSED FRAME MOUNTING KIT

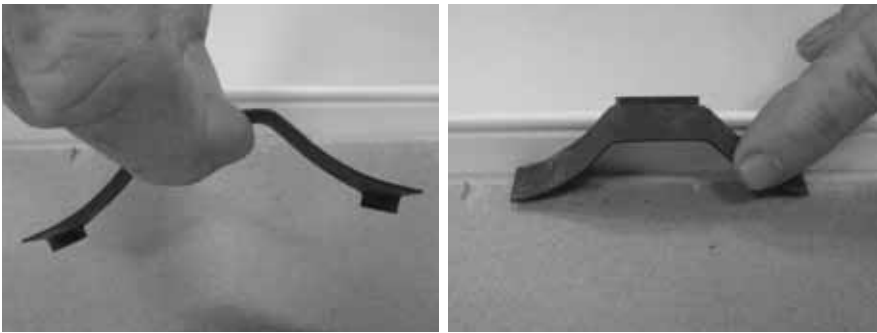
ORDER CODES	DESCRIPTION	FOLIO DIMENSIONS	FRAME DIMENSIONS	COLOUR
I03031RF	Folio Recess Frame	300 x 300mm	330 x 330	White Powder Coated
I06032RF	Folio Recess Frame	300 x 600mm	330 x 630	White Powder Coated
I06062RF	Folio Recess Frame	600 x 600mm	630 x 630	White Powder Coated
I12032RF	Folio Recess Frame	300 x 1200mm	330 x 1230	White Powder Coated
I12062RF	Folio Recess Frame	600 x 1200mm	630 x 1230	White Powder Coated

RECESSED FRAME MOUNTING CLIP INSTRUCTIONS

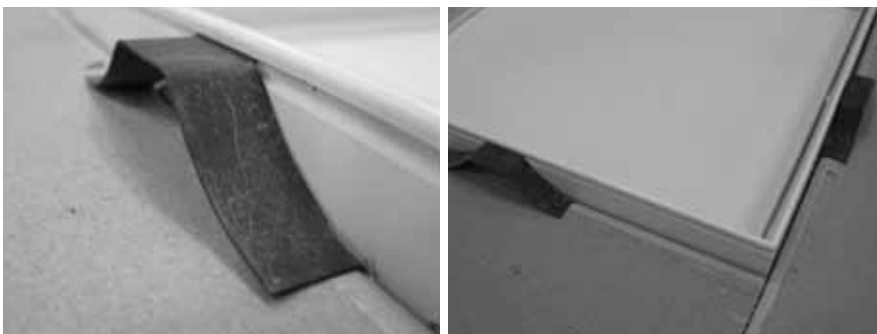
MOUNTING CLIP

1. Ceiling thickness, 10 – 15mm. Packers must be used if ceiling thickness is below minimum.
2. Minimum ceiling cavity height for all fittings is 120mm.
3. All mounting clips (refer to table on page 19) must be used.
4. Familiarise yourself with fitting clips prior to installing into ceiling.

- Locate bottom lugs of mounting clip in between ceiling tile and frame, in the position as per layout on page 19.



- Compress mounting clip and locate lug into groove of frame. Repeat for all other mounting clips.



MOUNTING CLIP LAYOUT

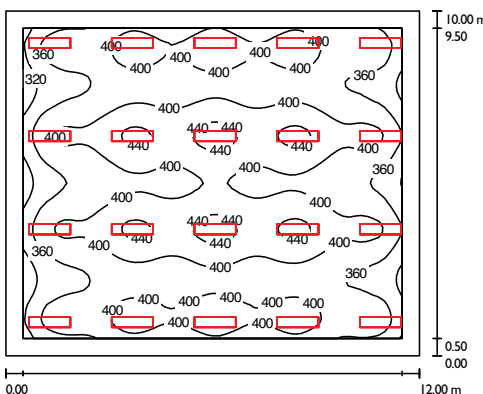


FOLIO RECESSED FRAME MOUNTING CLIPS

ORDER CODES	DESCRIPTION	MINIMUM MOUNTING CLIPS REQUIRED	FRAME DIMENSIONS
I03031RF	Folio Recess Frame	4	330 x 330
I06032RF	Folio Recess Frame	6	330 x 630
I06062RF	Folio Recess Frame	8	630 x 630
I12032RF	Folio Recess Frame	10	330 x 1230
I12062RF	Folio Recess Frame	12	630 x 1230

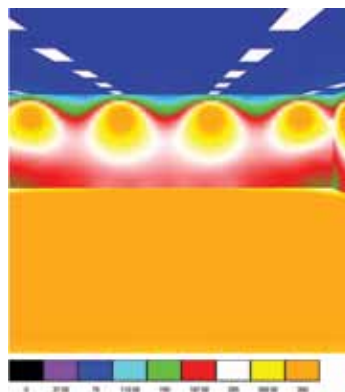
UNIFORM BRIGHTNESS

ROOM I - FOLIO 45W
1200 X 300 / SUMMARY



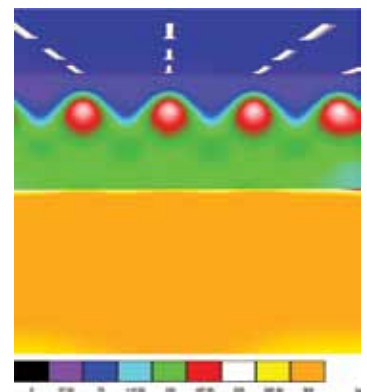
NEW: UNIFORM BRIGHTNESS

ROOM I - FOLIO 1200 X 300 / FALSE COLOUR RENDERING



OLD: 'CAVERN EFFECT'

ROOM I - LOUVERED FALSE COLOUR RENDERING



ROOM I - FOLIO 45W 1200 X 300 / SUMMARY

HEIGHT OF ROOM: 2.800 M, MOUNTING HEIGHT: 2.800 M, MAINTENANCE FACTOR: VALUES IN LUX, SCALE 1:129
0.80

SURFACE	ρ [%]	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	$u0$
WORKPLANE	/	391	294	457	0.750
FLOOR	20	345	211	406	0.611
CEILING	70	85	76	122	0.897
WALLS (4)	50	221	91	362	/

WORKPLANE

HEIGHT: 0.750m
GRID: 64 x 64 Points
BOUNDARY ZONE: 0.500m

LUMINAIRE PARTS LIST

No.	Pieces	Designation (Correction Factor)	ϕ (Luminaire) [lm]	ϕ (lamps) [lm]	P [W]
I	20	SLA NLBPL30120-W FOLIO 300 x 1200MM WARM WHITE LED (1.000)	3124	3127	49.1
TOTAL: 62477			TOTAL: 62540	TOTAL: 982.9	

SPECIFIC CONNECTED LOAD: $8.19 \text{ W/M}^2 = 2.09 \text{ W/M}^2 / 100 \text{ lx}$ (GROUND AREA: 120.00 M²)



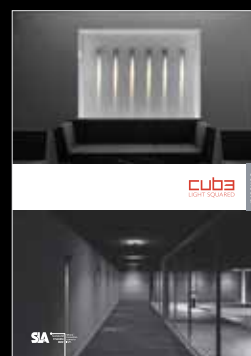
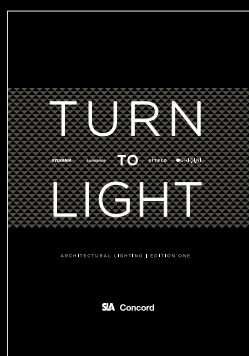






Autodesk® Revit®

2013 PUBLICATIONS



For the latest 2013 ranges visit <http://www.sla.net.au/catalogues>.
Scan the QR Code on your hand held device and be linked to our catalogues on the SLA Website.



SLA | Sylvania
Lighting
Australasia

IA0042013