



TRILUX LED BACKLIGHTING

LOWEST MATERIAL AND ASSEMBLY COST SOLUTION

Addlux Trilux LED lighting modules are ultra-bright. They are ideal for cost-effectively backlighting fabric and translucent material lightboxes. For example, only four modules are needed to illuminate a 1000mm square, 100mm deep fabric lightbox and still give out an illuminance of 1300 to 1600 lux (advertising fabric with 30% light transmission).

Ten modules can be connected in series. An assembly of modules is easily connected to the backboard with screws or a suitable thermally conducting double-sided adhesive tape. The result – significant cost-savings in materials and assembly.

A Trilux module is rectangular in shape and comprises three diodes bundled together in a moulded casing to form a single exceedingly

bright module. The diodes have a special lens design which guarantees very even lighting across the entire illuminated surface. They have IP68 rating for resistance to moisture, water, dust and shock. Trilux module lighting is very attractive to designers and manufacturers for backlighting fabric and translucent material fronted LED lightboxes for a wide range of applications from 100 mm to 200 mm depth.

Product Name	Trilux LED Lighting Module
Product code	TL-6K12V
Description	Single-side, DC 12V
Number of LEDs per module	3
Dimensions/Weight per module	82mm x 124mm x 11mm/125g
Colour	White
Colour temperature range (K)	6000 – 6500 (others on request)
Beam angle	175o
Luminance per module (lm)	600
Voltage	12V
Power consumption per module	7W
Attachment	Screws or double-sided thermally resistant tape
Inter-module connection	Screw-in extendable coil cable (250mm – 500mm)
Number of modules (max) in series	10
IP rating	IP 68
Operating Temperature	-35 to +60
Lifespan (hours)	50,000
Warranty	5 years
Availability (minimum quantity)	10 modules connected in series
Certification	CE, RoHS, UL

Table 1
Data for Trilux LED
Backlighting Modules

DEPTH VS BRIGHTNESS



- Four Trilux modules spaced 333mm apart in x and y directions illuminate a lightbox measuring 1000mm x 1000mm with a fabric covering having a transmittance of 30% and various depths give brightness levels as measured below.
- Trilux modules are available in boxed sets of ten connected modules (minimum order quantity)

Lightbox depth (mm)	Illumination (lux)
100	1300 - 1600
120	1100 - 1300
150	1000 - 1200
180	800 - 900
200	700 - 800

Note: Data is for reference only

DIMENSIONS

