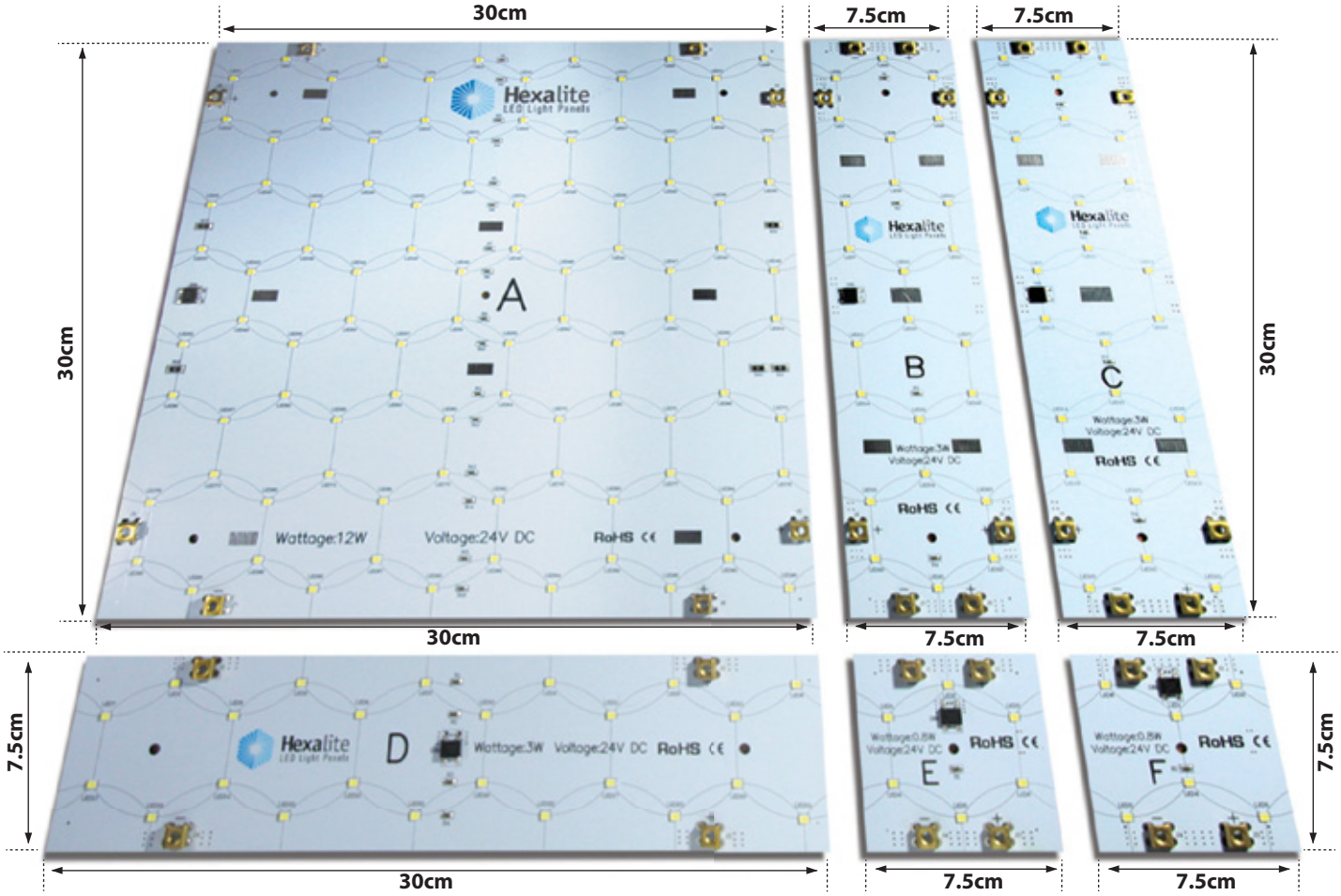
Hexalite
LED Light Panels



LED Modular light panels for backlit slim light boxes and Architectural Lighting applications

‘Hexalite’ Modular LED light panels



Hexalite LED Panels

LED’s are soldered in a hexagonal pattern to produce uniform light at 5cm distance.

The Hexalite LED Panels have a long lifetime of about 50,000 hours of continuous use.

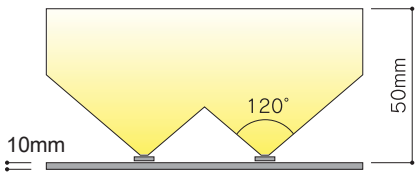
The panels are made with unique material that is light weight, strong and slim.

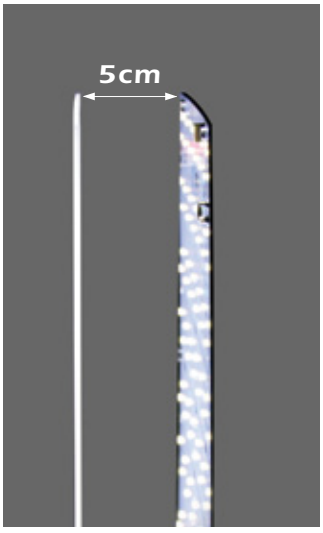
The Hexalite LED Panels can also be easily interconnected to virtually any size and shape.

Shipping costs are greatly reduced with the lighter weight components used.

Most Effective Distance for Bright and Uniform Lighting

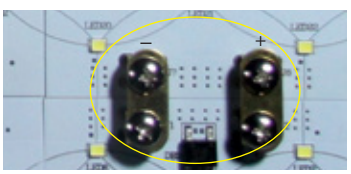
The Hexalite modular LEDs have an angle of 120^0 and focus the light evenly at about 5cm, giving bright even light throughout.

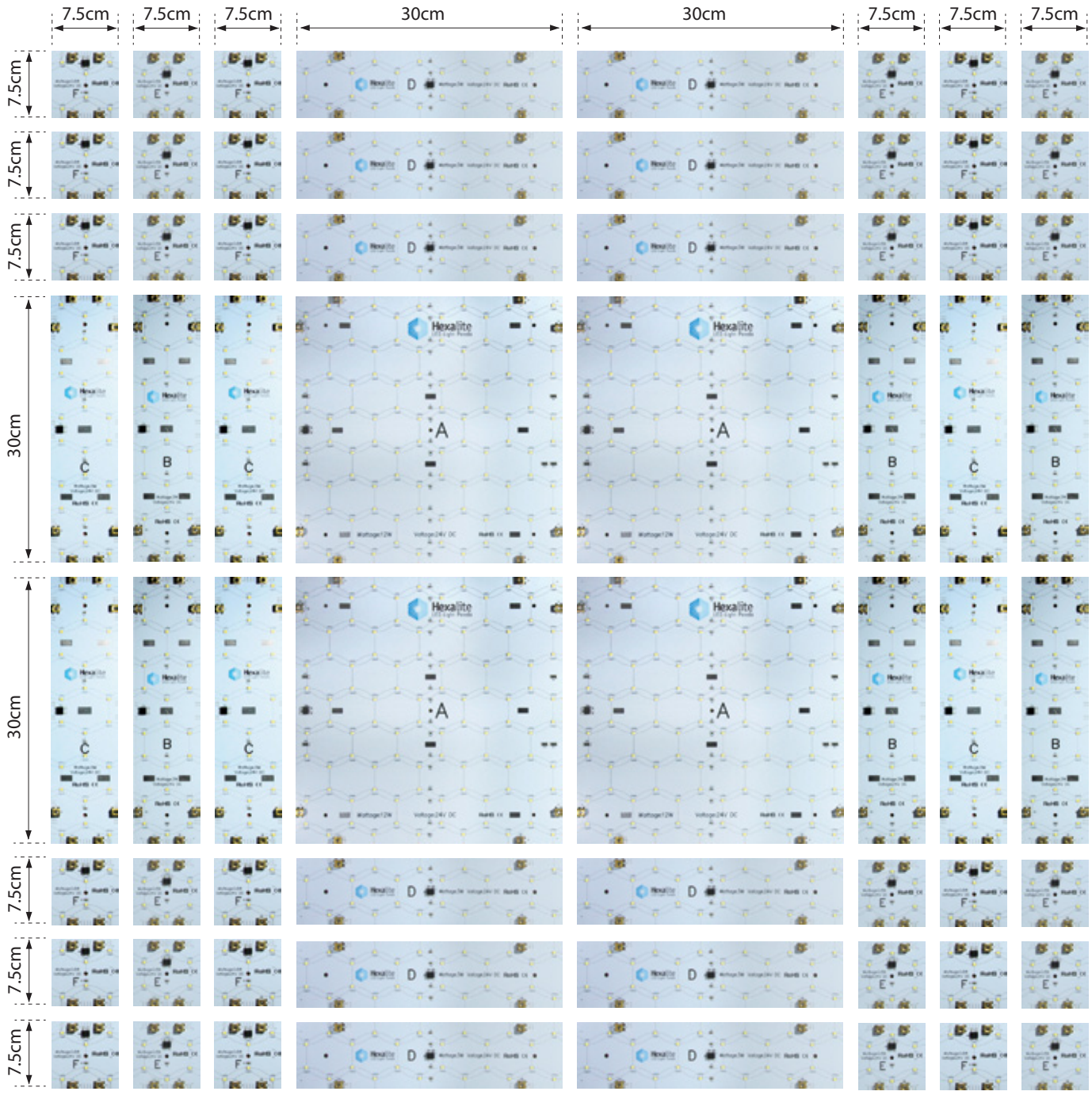




Terminal Power connectors:

The terminal power connectors are the standard installation tools which are used to interconnect 6 different Hexalite panels for extending the size.





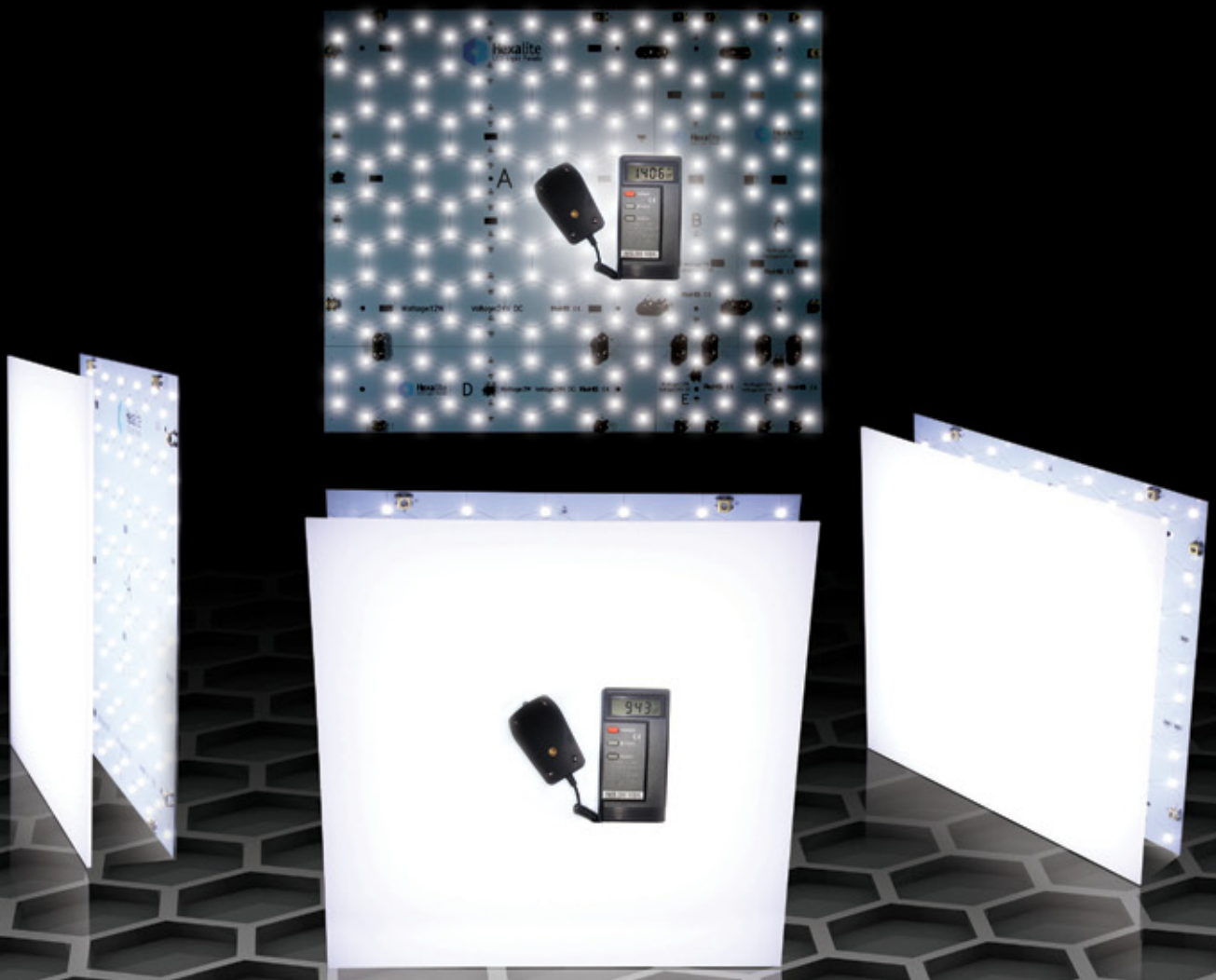
Hexalite LED light panels construction explained:

Ideally the inner size(length & width) of the light box should be in multiples of 30cm so that the light box can be filled with only 'A' type(size: 30cm x 30cm) panels to make it cost effective.

If the above case is not possible then…

- *The gaps(in multiples of 7.5cm) on the right side of the 'A' panels can be filled with 'B' & 'C' panels in the order B-C-B to fill a gap of 22.5cm on the right side.(Please note: For the gap more than this, if possible, can either be reduced to 22.5cm. Or can be increased to 30cm to use 'A' panel).*
- *The gaps(in multiples of 7.5cm) on the left side of the 'A' panels can be filled with 'B' & 'C' panels in the order C-B-C to fill a gap of 22.5cm on the left side.*
- *The gaps(in multiples of 7.5cm) on the top or bottom sides of the 'A' Panels can be filled with 'D' panels in the order D-D-D to fill a gap of 22.5cm on either top or bottom sides.*
- *If any two side gaps of the 'A' panels are filled with 'B' & 'C' panels then the corner gaps should be filled with 'E' & 'F' panels in the order E-F-E for right top/right bottom corners and in the order F-E-F for left top/left bottom corners.*
- *If any gap that is less than 7.5cm can't be filled with any panels. But this gap can be equally distributed on either two sides of the LED panels so that the beam angle of the LEDs at the edges can cover that area on the image with uniform lighting.*

Note: *In the above illustration the panels are shown with gaps in between for clarity purpose. But in actual installation these panels are to be joined together with terminal power connectors as explained in the previous page.*



Hexalite Modular LED Performance Characteristics

Code	Size (W X H)	Power Consumption	Operating Temp.	Luminance Lux at 5cm Distance			Expected Life Span
				Direct	On Opal White Acrylic/ PC Sheet	On Backlit Textile/ Fabric	
LED-HLP-A-30X30	300mm x 300mm	12W	–30°~60°	14,000 LUX	9,000 LUX	7,000 LUX	50,000 hrs.
LED-HLP-B-7.5X30	75mm x 300mm	3W	–30°~60°	14,000 LUX	9,000 LUX	7,000 LUX	50,000 hrs.
LED-HLP-C-7.5X30	75mm x 300mm	3W	–30°~60°	14,000 LUX	9,000 LUX	7,000 LUX	50,000 hrs.
LED-HLP-D-30X7.5	300mm x 75mm	3W	–30°~60°	14,000 LUX	9,000 LUX	7,000 LUX	50,000 hrs.
LED-HLP-E-7.5X7.5	75mm x 75mm	0.8W	–30°~60°	14,000 LUX	9,000 LUX	7,000 LUX	50,000 hrs.
LED-HLP-F-7.5X7.5	75mm x 75mm	0.8w	–30°~60°	14,000 LUX	9,000 LUX	7,000 LUX	50,000 hrs.

Hexalite Modular LED Technical Specifications

Code	Size (W X H)	LED Type	Input Voltage	Electrical Current	LED Qty.	Color Temp.	LED Color	LED Beam Angle	IP Rating	Lumen Per Panel
LED-HLP-A-30X30	300mm x 300mm	SMD2835	24V	0 - 25mA	96	10,000K-11,000K	Cool White	120°	IP20	1248 lumen
LED-HLP-B-7.5X30	75mm x 300mm	SMD2835	24V	0 - 25mA	24	10,000K-11,000K	Cool White	120°	IP20	312 lumen
LED-HLP-C-7.5X30	75mm x 300mm	SMD2835	24V	0 - 25mA	24	10,000K-11,000K	Cool White	120°	IP20	312 lumen
LED-HLP-D-30X7.5	300mm x 75mm	SMD2835	24V	0 - 25mA	24	10,000K-11,000K	Cool White	120°	IP20	312 lumen
LED-HLP-E-7.5X7.5	75mm x 75mm	SMD2835	24V	0 - 25mA	6	10,000K-11,000K	Cool White	120°	IP20	78 lumen
LED-HLP-F-7.5X7.5	75mm x 75mm	SMD2835	24V	0 - 25mA	6	10,000K-11,000K	Cool White	120°	IP20	78 lumen

* The reading of the Lux level in the above picture should be considered by multiplying the reading with 10

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