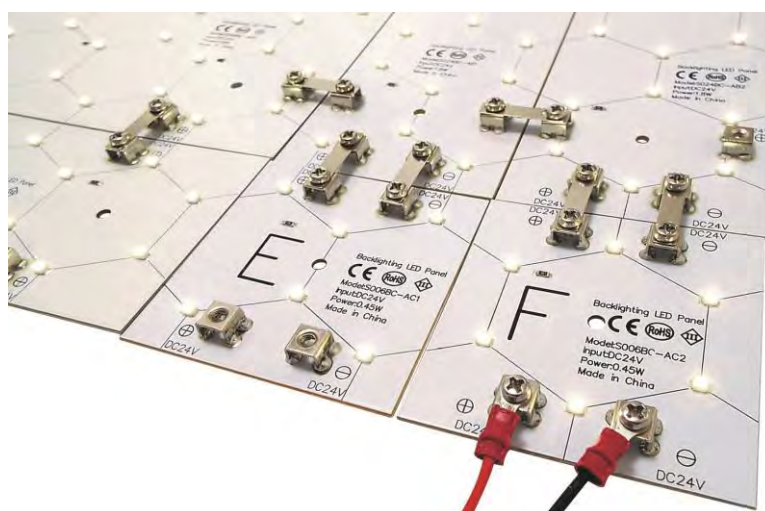


INTRODUCTION

S-LED is an LED back lighting panel system designed for internally lit poster box and fabric-face sign boxes. Comprising a series of six different panels in three sizes, **S-LED** can be arrayed and linked together to provide a bright and uniform matrix of energy efficient lighting inside many different box dimensions.

No special link wires or fragile plug connector are necessary - electrical interconnection between panels is done with a screw down metal strip.

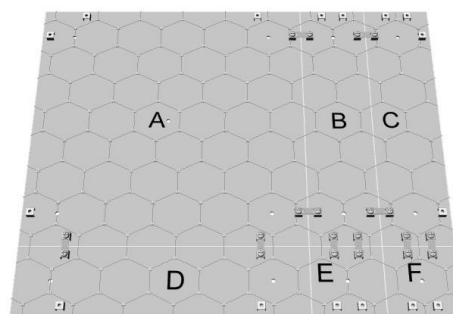
Available in three colour-temperatures ranges: 4300, 5100 and 6500



(Connecting (power) strips and machine screws are supplied, red crimp ring terminals and connecting wires are not included)

FEATURES

- Beam angle 115°
- 3528 SMD LEDs (1066pcs / sq M)
- Bright (5560lm / sq M) and efficient (≥ 72 lumens / Watt)
- Low power consumption (80W/ sq M)
- CRI ≥ 75
- Fast installation and low maintenance
- Normal indoor use (IP20)
- Safe, low power operation (24VDC)
- 3 years warranty or 13,000 hours operation whichever occurs first



APPLICATIONS

Sign applications including sign boxes between 50 and 100mm deep

CERTIFICATIONS



SPECIFICATIONS (Typical at 24VDC +/- 0.2V @ 25°C)

• Operating Temp. : - 20°~+70°

Part Number	Ref	Colour Temp (K)	Luminous Flux (lm)	Luminous Efficacy (lm/W)	Working Current (mA)	Power (W)	Dims (mm)	LEDs	Wt (g)	Panel Area / 1 sq M
S096BC-AA1-6500	A	6500 +/- 500K	501	72	288	6.90	300x300	96	262	0.09
S024BC-AB1-6500	B		139	77	75	1.80	300x75	24	73	0.0225
S024BC-AB2-6500	C		139	77	75	1.80	300x75	24	73	0.0225
S024BC-AB3-6500	D		139	77	75	1.80	300x75	24	20	0.0225
S006BC-AC1-6500	E		35	78	19	0.45	75x75	6	20	0.00562
S006BC-AC2-6500	F		35	78	19	0.45	75x75	6	20	0.00562

SPECIFICATIONS (cont'.) (Typical at 24VDC +/- 0.2V @ 25°C)

• Operating Temp. : - 20°~+70°

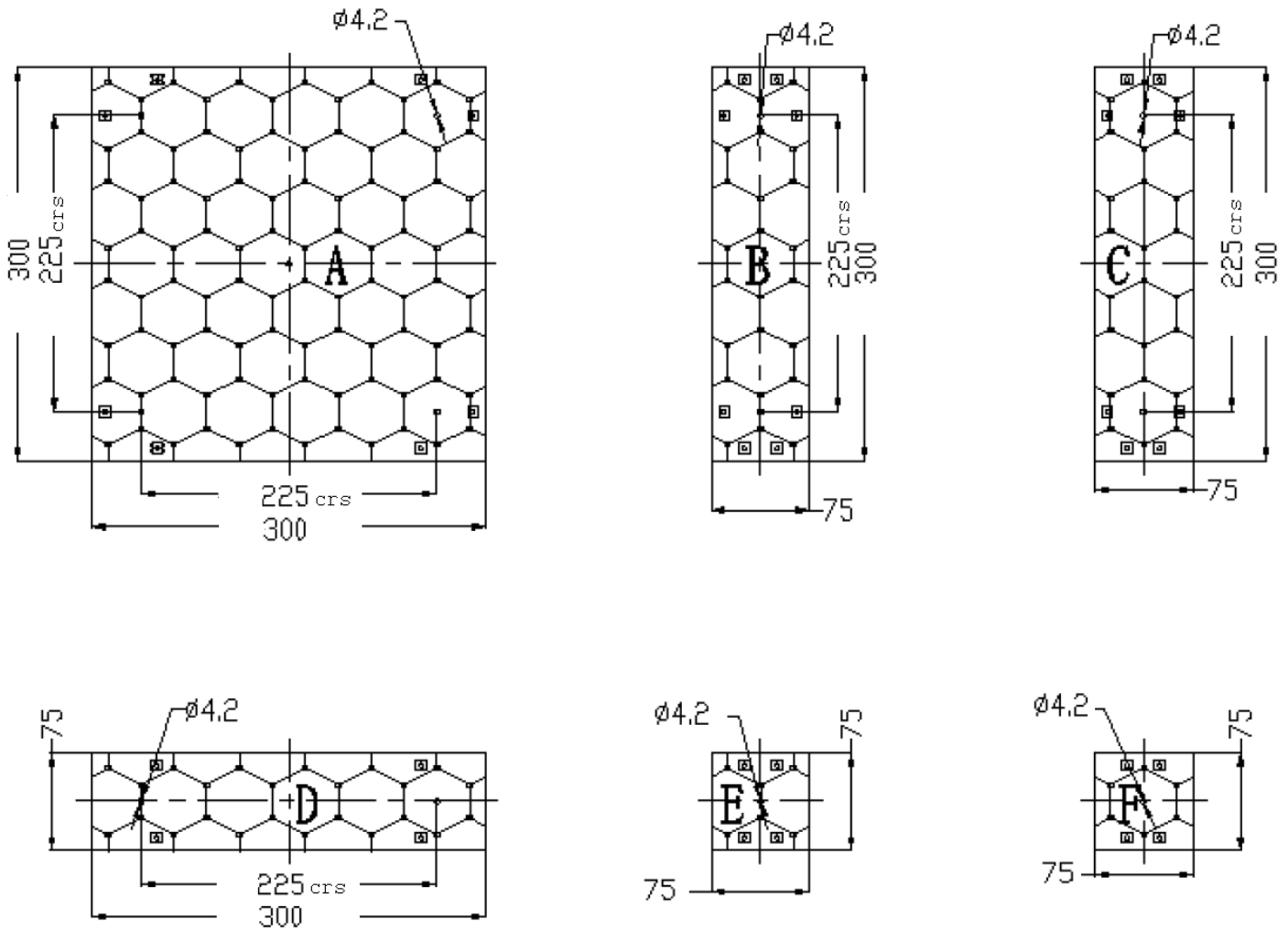
Part Number	Ref	Colour Temp (K)	Luminous Flux (lm)	Luminous Efficacy (lm/W)	Working Current (mA)	Power (W)	Dims (mm)	LEDs	Wt (g)	Panel Area / 1 sq M
S096BC-AA1-5100	A	5100 +/- 500K	451	72	288	6.90	300x300	96	262	0.09
S024BC-AB1-5100	B		125	77	75	1.80	300x75	24	73	0.0225
S024BC-AB2-5100	C		125	77	75	1.80	300x75	24	73	0.0225
S024BC-AB3-5100	D		125	77	75	1.80	300x75	24	20	0.0225
S006BC-AC1-5100	E		31	78	19	0.45	75x75	6	20	0.00562
S006BC-AC2-5100	F		31	78	19	0.45	75x75	6	20	0.00562

SPECIFICATIONS (cont'.) (Typical at 24VDC +/- 0.2V @ 25°C)

• Operating Temp. : - 20°~+70°

Part Number	Ref	Colour Temp (K)	Luminous Flux (lm)	Luminous Efficacy (lm/W)	Working Current (mA)	Power (W)	Dims (mm)	LEDs	Wt (g)	Panel Area / 1 sq M
S096BC-AA1-4300	A	4300 +/- 500K	425	72	288	6.90	300x300	96	262	0.09
S024BC-AB1-4300	B		118	77	75	1.80	300x75	24	73	0.0225
S024BC-AB2-4300	C		118	77	75	1.80	300x75	24	73	0.0225
S024BC-AB3-4300	D		118	77	75	1.80	300x75	24	20	0.0225
S006BC-AC1-4300	E		30	78	19	0.45	75x75	6	20	0.00562
S006BC-AC2-4300	F		30	78	19	0.45	75x75	6	20	0.00562

DIMENSIONS AND MOUNTING HOLE POSITIONS (Unit: mm)

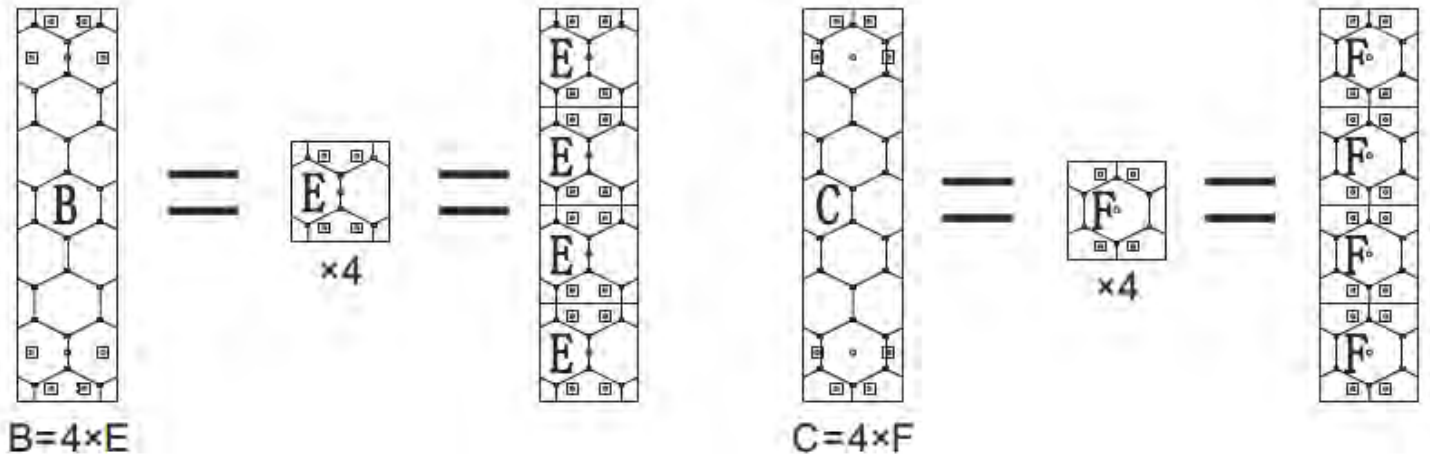
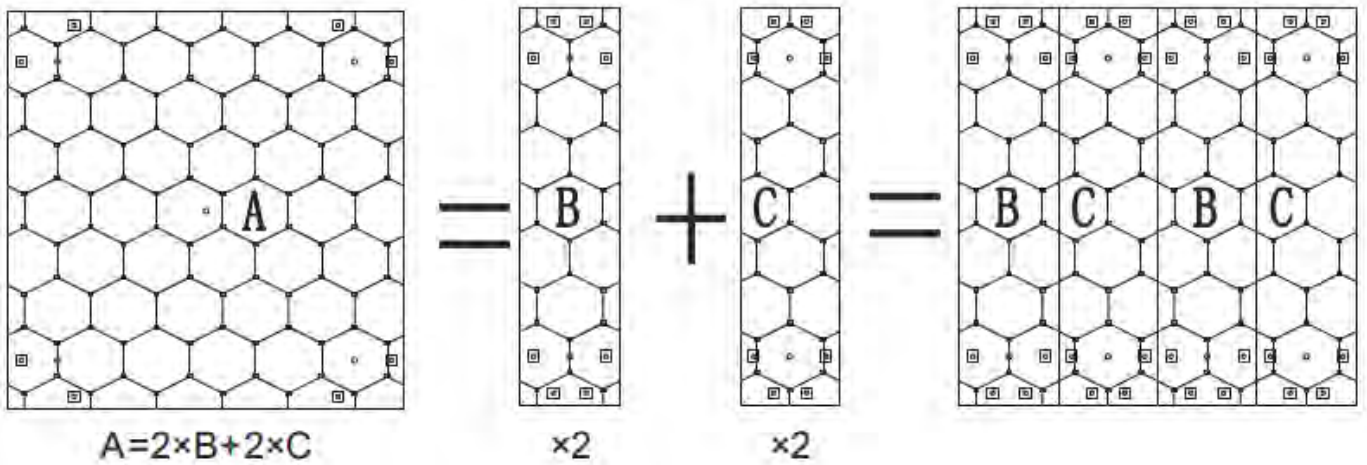
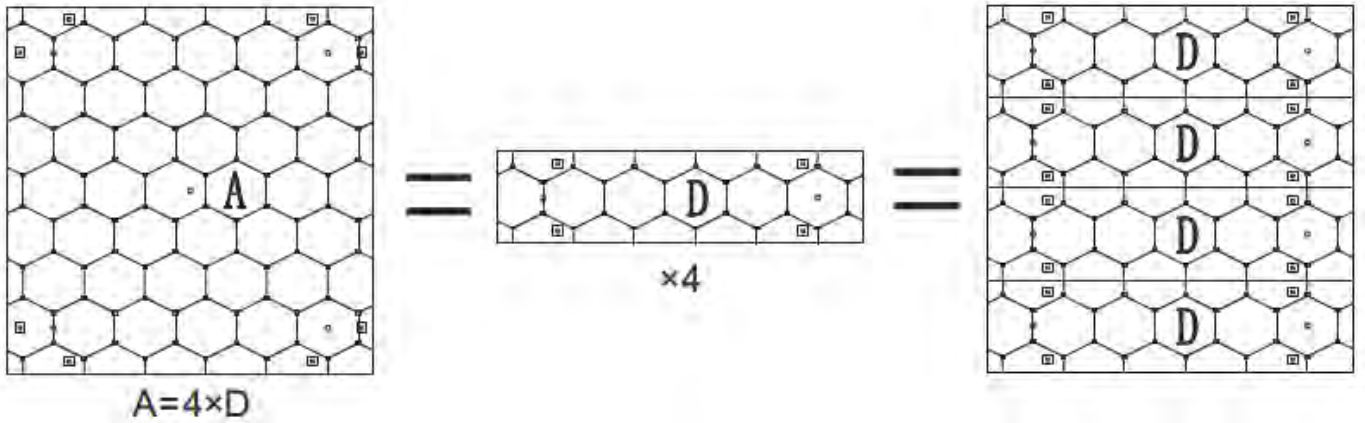


IDENTIFICATION



Panels are marked A, B, C, D, E or F

FORM FACTORS



SUITABLE PANEL COMBINATIONS / ARRANGEMENTS

Any combination / arrangement is suitable up to a maximum powered series 'chain' of panels not exceeding an area of 0.72m². Any number of series 'chains' can be connected in parallel to the driver. Avoid short-circuit and do not load driver above 85% of labelled wattage. Examples:

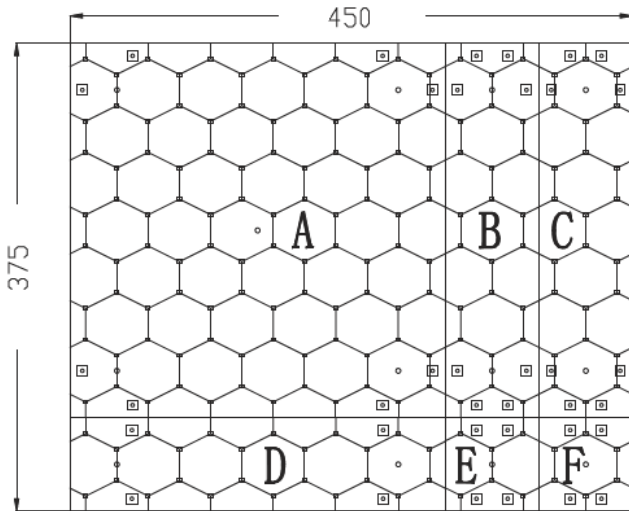


Fig. 1 (13.2 Watts)

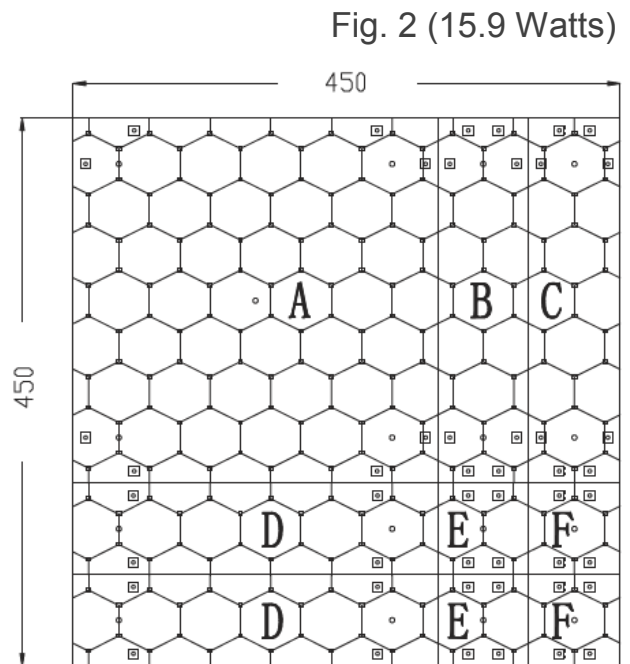


Fig. 2 (15.9 Watts)

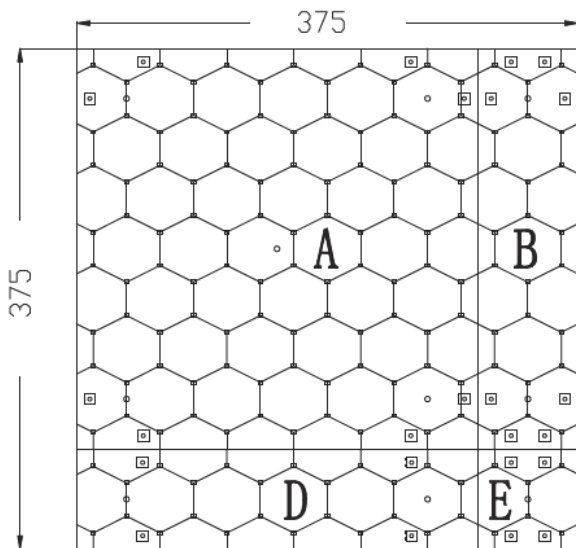


Fig. 3 (11 Watts)



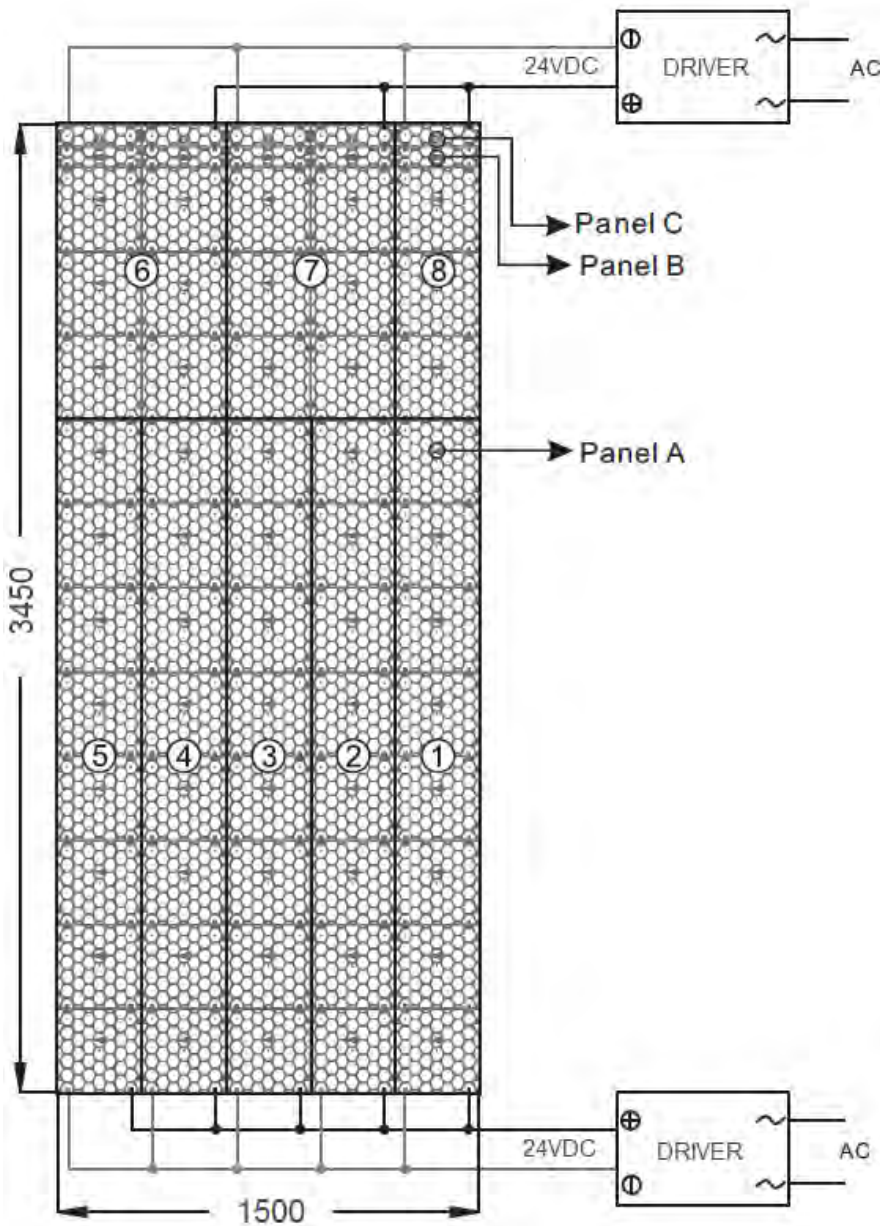
Connecting (power) strips and machine screws are supplied
Red crimp ring terminals and connecting wires are not included

Note: as with other LED lighting products there is a maximum run / number of pcs which can be connected and powered together in a single series 'chain' before another run needs to be started in parallel. Maximum area of S-LED panels which can be connected in series is 0.72m²

LED DRIVER UNITS

Driver	Max. area of panels / m ²	Max. no. Fig.1 arrangements	Max. no. Fig. 2 arrangements	Max. no. Fig. 3 arrangements
PSU25/24/IP67/L	0.27	1	1	1
PSU60/24/IP67/L	0.66	3	3	4
PSU100/24/IP67/L	1.08	6	4	7
PSU150/12/IP67/L	1.66	9	8	11

Use approved constant voltage 24V DC output drivers only and do not exceed the maximum number of panels connected. We recommend not exceeding 85% of a driver's rated wattage.



Note: the numbers opposite indicate areas of panels which are linked and powered together in a series chain.

These numbered 'chains' of panels cannot be linked together e.g. 1 must not be linked and powered with 8

Max. area of panels powered in a single series run is 0.72m²

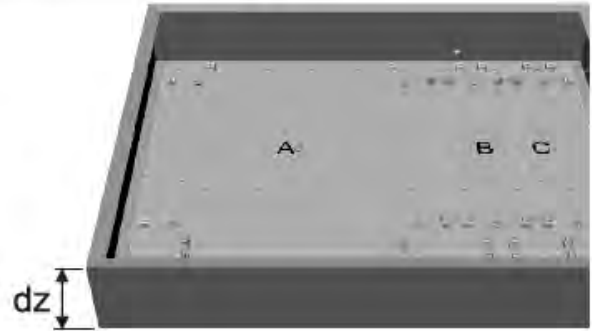
e.g. 8pcs S096BC-AA1 panel type A

DESIGN GUIDE

Depth of Light Box(mm[in])	Illuminance Range(lux)	Depth of Light Box(mm[in])	Illuminance Range(lux)
dz=60[2.4]	5800-6000	dz=200[7.9]	3600-4100
dz=80[3.1]	5400-5700	dz=250[9.8]	3200-3600
dz=100[3.9]	5000-5500	dz=300[11.8]	2700-3100
dz=150[5.9]	4300-4700		

Notes:

- 1.The above data are based on the product with 6000K color temperature.
- 2.Tested in 3mm(0.12in) depth white acrylic board with 54% luminous transmittance;
- 3.All data in the table are minimum illuminance with the uniform surface illumination;
- 4.The above data are for reference only.

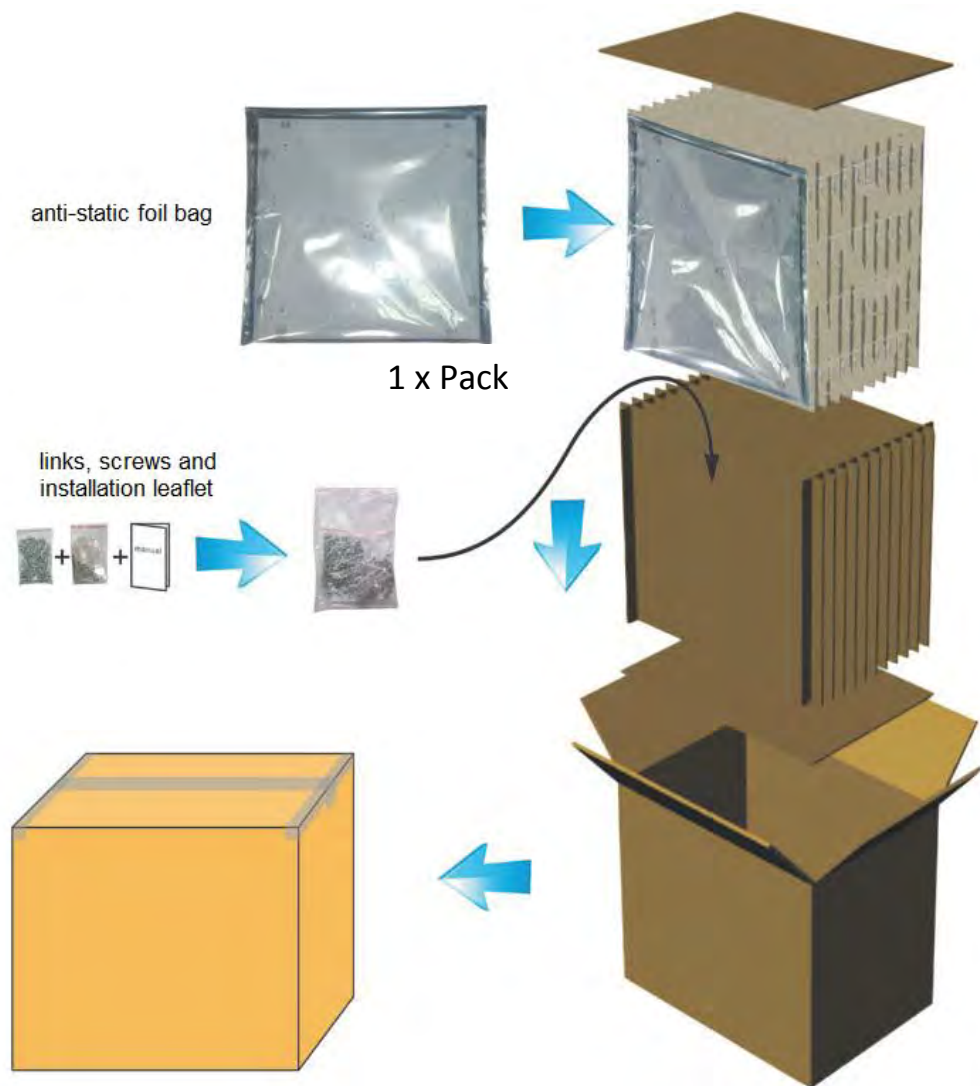


APPLICATIONS

Sign applications including sign boxes between 50 and 100mm deep



PACKAGING



Antistatic bag: 33.5x38cm Outer carton: 38.5x29x34cm and 7.2KG

2pcs LED panels per antistatic bag. Accessories into the small zip lock bag, zip lock bags into the big zip lock bag (1pc manual, 80pcs copper sheet and 160 machine screws)

10 bags of LED panels per outer carton, 20 panels in total;

Net Weight (N.W): 5.3 (1±10%) KG

Gross Weight (G.W): 7.2 (1±10%) KG

The actual packed quantity and weight subject to change without prior notice.

E&OE. Data subject to change without notice and to our standard terms and conditions available at www.oshino-lamps.co.uk

Jun 2015



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