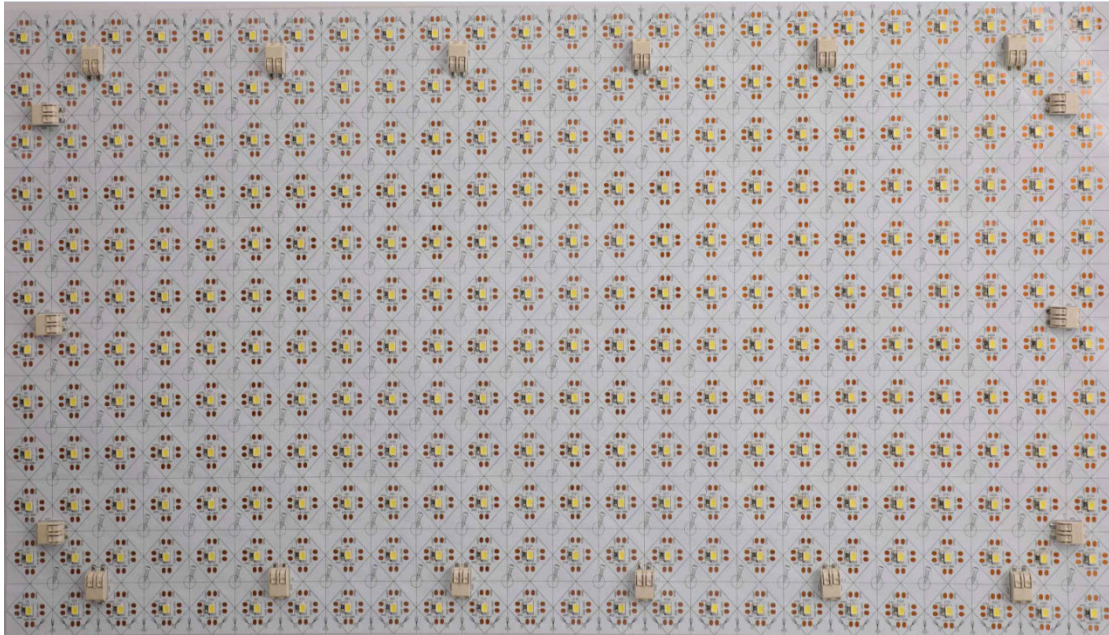
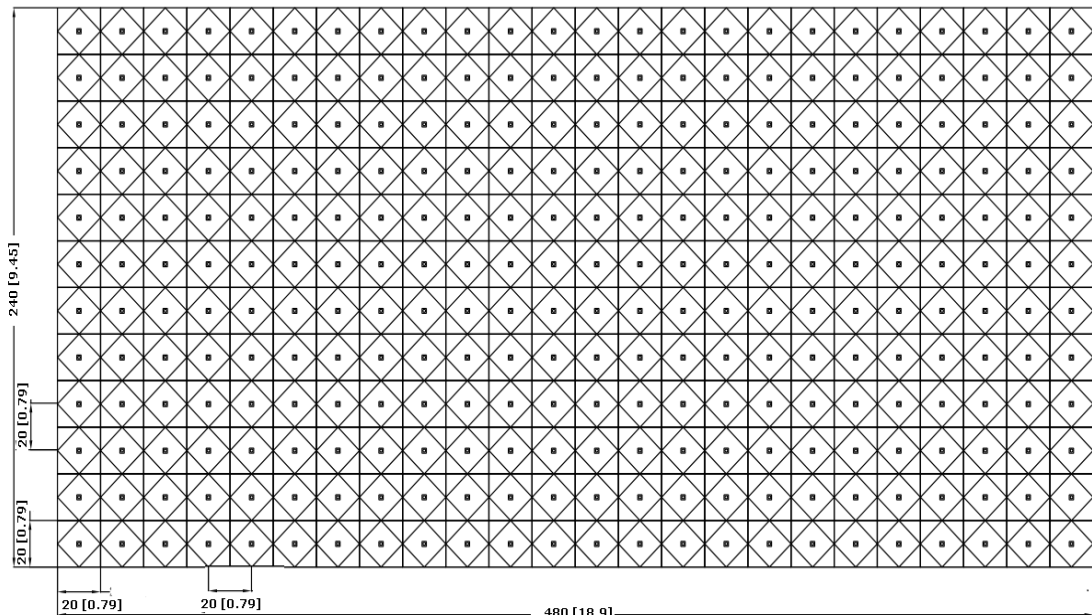


Sign Backlight Series | 2835 LED Light Sheet | AX-24-FE71

- Plus Series using top quality material, such as Epistar chip, Intermax phosphor powder, ShinEtsu & Dow Corning glue, Heraeus 99.99% pure golden wire, pure copper etc.
- Sign Backlight Series in light sheet appearance, allows flexible cuttable (by single LED) and on-site board-to-board split joint (by cable soldering or on-board connector) into multiple shapes, such as linear, square, rectangle, donut, L, T, S, + etc., applying at advertising word, signboard light box or abnormality mount scene.
- For curvy, space-sensitive backlighting solutions requiring the thinnest of lighting solutions. Light sheet is great for backlighting projects where a lighting solution that is both thin and bendable may be needed to fit into soft, curving surfaces and spaces.
- Backlight for showcase, shelf, billboard, signage with features of small size and thin width.



unit: mm [in.]



Sign Backlight Series | 2835 LED Light Sheet | AX-24-FE71

- Plus Series using top quality material, such as Epistar chip, Intermax phosphor powder, ShinEtsu & Dow Corning glue, Heraeus 99.99% pure golden wire, pure copper etc.
- Sign Backlight Series in light sheet appearance, allows flexible cuttable (by single LED) and on-site board-to-board split joint (by cable soldering or on-board connector) into multiple shapes, such as linear, square, rectangle, donut, L, T, S, + etc., applying at advertising word, signboard light box or abnormality mount scene.
- For curvy, space-sensitive backlighting solutions requiring the thinnest of lighting solutions. Light sheet is great for backlighting projects where a lighting solution that is both thin and bendable may be needed to fit into soft, curving surfaces and spaces.
- Backlight for showcase, shelf, billboard, signage with features of small size and thin width.

Part. No.	Dimension (L*W*H)	IP Rating	Lumen Flux ± 10% @CRI80&4000K&10W	Light Eff. @CRI80&4000K&10W	Lumen Flux ± 10% @CRI90&4000K&10W
AX-24-FE71N-A [AX-N2835XX-24-CV-288-FE71]	480*240*1mm [19*9.5*0.04in.]	IP20 [dry]	950lm/sheet, 3.3lm/unit piece 8270lm/m ² [760lm/ft ² .]	95lm/W	810lm/sheet, 2.8lm/unit piece 7030lm/m ² [650lm/ft ² .]

Part. No.	Dimension (L*W*H)	IP Rating	Lumen Flux ± 10% @CRI80&4000K&20W	Light Eff. @CRI80&4000K&20W	Lumen Flux ± 10% @CRI90&4000K&20W
AX-24-FE71N-A [AX-N2835XX-24-CV-288-FE71]	480*240*1mm [19*9.5*0.04in.]	IP20 [dry]	1860lm/sheet, 6.4lm/unit piece 16180lm/m ² [1490lm/ft ² .]	93lm/W	1580lm/sheet, 5.4lm/unit piece 13750lm/m ² [1270lm/ft ² .]

Part. No.	Dimension (L*W*H)	IP Rating	Lumen Flux ± 10% @CRI80&4000K&30W	Light Eff. @CRI80&4000K&30W	Lumen Flux ± 10% @CRI90&4000K&30W
AX-24-FE71N-A [AX-N2835XX-24-CV-288-FE71]	480*240*1mm [19*9.5*0.04in.]	IP20 [dry]	2760lm/sheet, 9.6lm/unit piece 24270lm/m ² [2210lm/ft ² .]	92lm/W	2350lm/sheet, 8.2lm/unit piece 20630lm/m ² [1880lm/ft ² .]

Part. No.	Dimension (L*W*H)	IP Rating	Lumen Flux ± 10% @CRI80&4000K&45W	Light Eff. @CRI80&4000K&45W	Lumen Flux ± 10% @CRI90&4000K&45W
AX-24-FE71N-A [AX-N2835XX-24-CV-288-FE71]	480*240*1mm [19*9.5*0.04in.]	IP20 [dry]	4050lm/sheet, 14lm/unit piece 35280lm/m ² [3240lm/ft ² .]	90lm/W	3440lm/sheet, 12lm/unit piece 29990lm/m ² [2750lm/ft ² .]

GENERAL PARAMETERS		PHOTOELECTRIC PARAMETERS	
Dimension	Sheet: L480*W240mm [L19*W9.5in.] Unit Piece: L20*W20mm [L0.8*0.8in.] Total Height Including On-Board Connector: 5mm [0.2in.]	Power ± 10%	Sheet: 10W / 20W / 30W / 45W Unit Piece: 0.035W / 0.069W / 0.104W / 0.156W 87W/m ² [8W/ft ²] / 174W/m ² [16W/ft ²] / 261W/m ² [24W/ft ²] / 392W/m ² [36W/ft ²]
Rated Current/Power & Max. Load Sheet QTY	Sheet: 10A/240W, On-Board Connector: 6A/36V & 23pcs@10W, 11pcs@20W, 7pcs@30W, 5pcs@45W (for 240W) 9pcs@10W, 4pcs@20W, 3pcs@30W, 2pcs@45W (for 100W)	Max. Length Per Single Row or Column @ power fed on one side (In worst case of cut into a normal linear LED strip in only one row or one column, and need to consider the voltage drop coefficient.)	30M [98.4ft.]@10W, 15M [49.2ft.]@20W, 10M [32.8ft.]@30W, 6M [19.7ft.]@45W
LED Pitch	20*20mm [0.8*0.8in.]	Input Voltage	24VDC
LED Type	SMD2835 white	LED Current	1.5mA/LED & 3mA/LED & 4.5mA/LED & 6.5mA/LED
LED QTY	Sheet: 24(Row)*12(Column)=288pcs, Unit piece: 1pc	LED CCT & Wavelength	2700K&3000K&3500K&4000K&5000K&6500K
PCB Type	2oz white FPC, OSP (Plus)	SDCM	ErP / ANSI Norm, 3 step (Plus)
Operating Ambient	Ta: -20~45°C	CRI	Ra≥80 & 90
Warranty	5 years (Plus)	Beam Angle	120°
Lifespan	50kh (L70B50@Tc<65°C, Tc is temperature of LED pin)	Dimming Method	PWM (dimnable driver like RF, Bluetooth, 0/1-10V, Triac, DALI, DMX, WIFI etc.)
Certification	CE, UL, RoHS		

Note 1: Luminous flux for CCT 2700K is 10% lower, for CCT 3000K/3500K is 5% lower, for CCT 5000K/6500K is the same, compared with 4000K.

Note 2: Transmittance for IP54/IP67/IP68, 2700K/3000K is 95%, 3500K/4000K is 90%, 5000K/6500K is 80%; for IP65/IP54 Plus/IP67 Plus is 95%.

Note 3: Applying with extra heat sink is not mandatory by self-cooling.

Note 4: 3M 300LSE yellow adhesive tape attached on backside, is standard configuration of Plus Series.

Note 5: In order to get uniform area light without light-spot, the distance between light sheet and sign is ≥30mm[1.18in.], means 1.5 times of LED pitch.