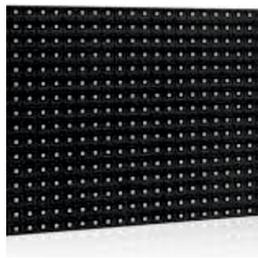# ALEDA

Digital Display Solutions

CONTENT

ALEDA

ALEDA is committed to shaping a smarter, greener, and more sustainable future by providing state-of-the-art display and lighting solutions for diverse applications.

Designed for high-impact visual experiences and energy efficiency, ALEDA's product portfolio includes:

Active LED Displays

High-performance modules and screens delivering vibrant, dynamic visuals for shopping malls, outdoor hoardings, transportation hubs, entertainment and sports venues, and more.

LED Modules

Custom-designed solutions for signage, retail displays, office lighting, and architectural illumination, ensuring bright, uniform lighting with enhanced efficiency.

Indoor & Outdoor LED Display Screens

High-resolution digital display solutions for corporate offices, retail advertising, and public spaces, offering superior color accuracy and durability.

With an unwavering dedication to quality, innovation, and sustainability, ALEDA stands at the forefront of next-generation lighting and display solutions. Our focus on durability, energy efficiency, and advanced technology ensures that ALEDA's products meet global standards, transforming spaces with brilliance and efficiency.

INDOOR SERIES

IS 1.86 FULL COLOR

Application: Indoor | **Pixel Pitch**: 1.86 mm | **LED Type**: SMD1515
Resolution: 172x86 | **Brightness**:>600cd/sqm | **Refresh Rate**: 3840 Hz
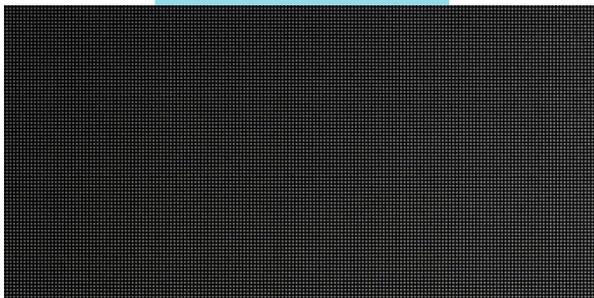**Drive Mode**: 1/43 Scan

Description

The IS 1.86 Full Color is engineered for ultra-high-definition indoor applications where clarity, precision, and detail matter most. Built using advanced SMD1515 LED technology, this module delivers stunning resolution with sharp text, smooth gradients, and excellent contrast. With a dense 1.86 mm pixel pitch, it excels in short viewing distances, making it ideal for luxury retail displays, broadcast backdrops, boardrooms, and mission-critical environments. The high refresh rate ensures flicker-free visuals even under camera capture. Its modular design, magnetic back panel, and high grayscale handling enable vibrant, lifelike visuals with effortless integration into video walls and digital displays.

Module picture

Front view

Back view

IS 2.5 FULL COLOR

Application: Indoor | **Pixel Pitch**: 2.5 mm | **LED Type**: SMD2121
Resolution: 128x64 | **Brightness**: >600 cd/m² | **Refresh Rate**: 3840Hz
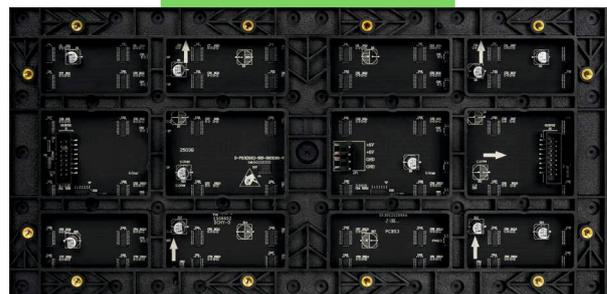**Drive Mode**: 1/32 Scan | **Power Consumption**: ≤19 W/module

Description

The IS 2.5 Full Color module balances high-definition output with installation efficiency, delivering seamless performance for indoor branding, communication, and media applications. Equipped with SMD2121 LEDs, it offers crisp image output, wide viewing angles, and reliable brightness across various lighting conditions. The 2.5 mm pitch offers pixel-level clarity even from close viewing distances, ideal for showrooms, conference halls, and digital information systems. Designed for 24/7 uptime, the IS 2.5 provides stable power performance, rapid assembly using quick-lock magnetic support, and easy front access for maintenance. It's built for teams who demand performance and scalability in one package.

Module picture

Front view

Back view

Product technical parameters (IS 1.86 FULL COLOR)

Items	Technical parameters	
Module size	Module size	320mm (W)*160mm (H)*15mm (T)
	Pixel pitch	1.860mm
	Pixel density	288906dots/m2
	LED lamp	SMD1515
	Resolution	172*(W)*86(H)
	Module area	0.0512 m^2
	Weight	0.45kg±0.01 kg
Optical Parameter	Viewing distance	≥ 2.5m
	Viewing angle	150 (H)/150 (V)
	Pixel configuration	1R1G1B
	Brightness range	>600cd/sqm
Electrical Parameter	Working voltage	DC 4.2-5V
	max power consumption	≤ 19W
	Driver IC	Constant current drive
	Drive mode	1/43 scan, constant current
	Refresh rate	3840Hz
	Gray scale	12-14bit
	Control mode	Synchronous control
	Maximum power	≤ 371.1w/m²
	Power distribution	559.7w/m² (Maximum power per square meter÷78%÷85)
System Working Characteristic	Operating environment	Indoor
	Working temperature	-10℃~40℃
	Working humidity	10% 65%RH(No condensation)
	MTBF	≥10000 hours
	Work life	≥100000 hours
	Blind spot rate	≤ 1/10000
	Attenuation rate(Working 3 years)	≤ 15%
	Flatness	Horizontal flatness of the screen<1mm/㎡

*The contents and information in the product will be subject to change without further notice, the company does not undertake any responsibility.

Product technical parameters (IS 2.5 FULL COLOR)

Items		Technical parameters
Module size	Module size	320mm (W)*160mm (H)*15mm (T)
	Pixel pitch	2.5mm
	Pixel density	160000dots/m2
	LED lamp	SMD2121
	Resolution	128*(W)*64(H)
	Module area	0.0512 m^2
	Weight	0.45kg±0.01 kg
Optical Parameter	Viewing distance	≥ 2.5m
	Viewing angle	150 (H)/150 (V)
	Pixel configuration	1R1G1B
	Brightness range	>600cd/㎡
Electrical Parameter	Working voltage	DC 4.2-5V
	max power consumption	≤ 19W
	Driver IC	Constant current drive
	Drive mode	1/32 scan, constant current
	Refresh rate	3840Hz
	Gray scale	12-14bit
	Control mode	Synchronous control
	Maximum power	≤ 371.1w/m²
	Power distribution	559.7w/m² (Maximum power per square meter÷78%÷85
System Working Characteristic	Operating environment	Indoor
	Working temperature	-10℃~40℃
	Working humidity	10% 65%RH(No condensation)
	MTBF	≥10000 hours
	Work life	≥100000 hours
	Blind spot rate	≤ 1/10000
	Attenuation rate(Working 3 years)	≤ 15%
	Flatness	Horizontal flatness of the screen<1mm/㎡

*The contents and information in the product will be subject to change without further notice, the company does not undertake any responsibility.

OUTDOOR SERIES

OS 4 FULL COLOR

Application: Outdoor | **Pixel Pitch:** 4 mm | **LED Type**: SMD1921
Resolution: 80x40 | **Brightness**: >5000 cd/m² | **Refresh Rate**: 3840 Hz
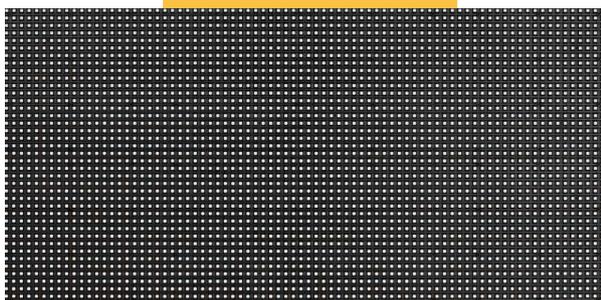**Drive Mode**: 1/10 Scan | **Power Consumption**: ≤43.5 W/module

Description

The OS 4 Full Color module is crafted for superior outdoor visibility and rugged reliability. With a pixel pitch of 4 mm and SMD1921 LEDs, it brings together vibrant colors, crisp contrast, and wide visibility in high-traffic exterior zones. Its IP-rated protection, glue-pouring waterproof design, and reinforced module casing make it an ideal choice for digital billboards, highway signage, and building façades. The high brightness threshold ensures that content remains vivid in daylight, while the consistent refresh rate keeps motion smooth and natural. Whether mounted on walls, poles, or gantries, OS 4 is a future-ready outdoor solution designed to impress and endure.

Module picture

Front view	Back view

OS 6 FULL COLOR

Application: Outdoor | **Pixel Pitch**: 6.6 mm | **LED Type**: SMD 2727

Resolution: 48 dots (W)* 24 dots (H) | **Brightness**: >5000 cd/m²
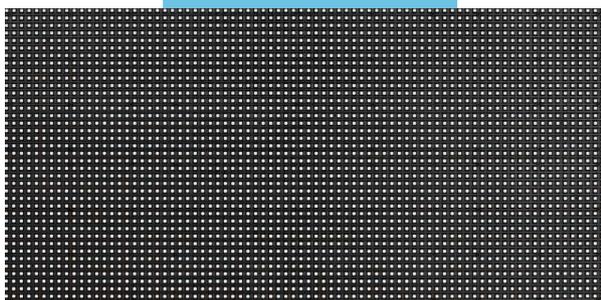
Refresh Rate: 3840 Hz | **Drive Mode**: 1/6 Scan | **Power Consumption**: ≤ 41.5 W

Description

The OS 6 Full Color module is a reliable workhorse designed for mid-range outdoor displays where a balance of resolution, cost, and coverage is required. Built to support various LED configurations depending on the project scope, it offers a flexible yet durable platform for information displays, advertising boards, and civic digital signage. With a 6 mm pitch, it is optimised for medium-range visibility while maintaining vibrant output and structural strength. Weatherproof construction, surge protection, and adaptive thermal management contribute to consistent outdoor operation year-round. This series stands as a versatile solution for installers managing multiple environments and cityscape projects.

Module picture

Front view	Back view

OS 10 WHITE

Application: Outdoor | **Pixel Pitch**: 10 mm | **Resolution**: 32 points (W)* 16 points (H) | **Brightness**: >4000 cd/m² | **Drive Mode**: 1/4 Scan

Description

Optimised for long-distance visibility and critical messaging, the OS 10 white Color (White variant) is a high-impact, single-colour outdoor display. Featuring a 10 mm pixel pitch and high-luminance white SMD lamps, this module is perfectly suited for road signage, perimeter security messaging, and outdoor transport networks. The monochrome format simplifies energy usage while maximising clarity and legibility in both bright sunlight and low-light conditions. With robust environmental sealing, extended viewing angles, and minimal failure rates, OS 10 remains operational in extreme temperatures and provides a worry-free signage solution where reliability is non-negotiable.

Module picture

Front view

Back view

Product technical parameters (OS 4 FULL COLOR)

Items		Technical parameters
Module size	Module size	320mm (W)*160mm (H)*18mm (T)
	Pixel pitch	4mm
	Pixel density	62500dots/m2
	LED lamp	SMD1921
	Resolution	80(W)*40(H)
	Module area	0.0512 m^2
	Weight	0.46kg±0.01 kg
Optical Parameter	Viewing distance	≥ 4m
	Viewing angle	140 (H)/130 (V)
	Pixel configuration	1R1G1B
	Brightness range	>5000cd nits
Electrical Parameter	Working voltage	DC 4.5-5V
	max power consumption	≤ 43.5W
	Driver IC	Constant current drive
	Drive mode	1/10 scan, constant current
	Refresh rate	3840Hz
	Gray scale	13-14bit
	Control mode	Synchronous control
	Maximum power	≤ 850w/m²
	Power distribution	1281.5w/m² (Maximum power/m² ÷ 78 % ÷ 85 %)
System Working Characteristic	Operating environment	Outdoor
	Working temperature	-20℃~50℃
	Working humidity	10%-90%RH
	MTBF	≥10000 hours
	Work life	≥100000 hours
	Blind spot rate	≤ 1/10000
	Attenuation rate (Working 3 years)	≤ 15%
	Flatness	Horizontal flatness of the screen<1mm/㎡

*The contents and information in the product will be subject to change without further notice, the company does not undertake any responsibility.

Product technical parameters (OS 6 FULL COLOR)

Items	Technical parameters	
Module size	Module size	320mm (W)*160mm (H)
	Pixel pitch	6.667 mm
	Pixel density	22500 dots/m2
	LED Specifications	SMD 2727
	Pixel resolution	48 dots (W)* 24 dots (H)
	Unit board area	0.0512 ㎡
	Module weight	0.53 kg±0.01 kg
Optical Parameter	Optimal viewing distance	≥ 7 m
	Best viewing angle	140 (H)/ 130 (V)
	Pixel configuration	1R1G1B
	Brightness range	>5000 cd /㎡
Electrical Parameter	Operating voltage	DC 4.5-5V
	max power consumption	≤ 41.5 W
	Drive device	Constant current driver
	Drive mode	1/6 Scan
	Refresh rate	3840Hz
	Grayscale	13-14bit
	Control method	synchronous
	Max power per square meter	≤ 801 w/㎡
	Power distribution	1220w /㎡ (maximum power per square ÷ 78% ÷ 85%)
System Working Characteristic	Operating environment	outdoor
	Operating temperature	-20 ℃ ~ 50 ℃
	Operating humidity range	10% to 90 % RH
	Mean time between failures	≥10000 hours
	Theoretical service life	≥ 100000 hours
	Blind spot rate	≤1/10000
	Decay rate (3 years of operation)	≤15%
	Flatness	Screen level flatness <1mm/㎡

*If there is any update to product information, we will not provide additional notice and our company does not assume any obligation.

Product technical parameters (OS 10 WHITE)

Items	Technical parameters	
Light tube	Point spacing	10mm
	Light point color	1 white
	Base color	white
	Light point color combination	0.1W
	Density	10000Points/ m2
Module	Resolution	32*16mm
	Display module size	320*160mm
	Single module weight	300g
Full screen display	Viewing angle	160/120°H/V
	Storage temperature	-40°C ~ +85°C
	Operating temperature	-10°C ~ +50°C
	Relative humidity	10%～95%
	Optimal viewing distance	10M-100M
	Unit board interface definition	HUB 12
Power supply	Working voltage	AC 220V±10; 50 Hz
	Average power consumption	100-150W/㎡
	Maximum power consumption	300 W/㎡
Control system	Operating system	WIN 98/WIN 2000/WIN NT
	Control mode	synchronous/asynchronous control
Main technical parameters	Drive mode	Synchronous
	Frame rate	≥60 Hz
	Brightness	≥4000 cd /㎡ (when fully lit)
	Scanning method	1/4 scanning
	Structure	Lamp and driver in one
	Mean time between failures	≥10000 Hour
	Lifespan	1010,000 hours
	Surface mount outdoor module	Using lamp bead glue filling waterproof process
	Flatness	≤0.5 mm between any adjacent pixels; unit board splicing gap <1 mm
	Uniformity	Pixel light intensity and unit panel brightness are uniform
	Blind spot rate	< 0.0001 (zero when the product is delivered)
	Computer display mode	1024×768
	Effective communication distance	Network cable 100m (without repeater), multimode fiber 500m, single mode fiber 20 km
Software	Universal playback software	

FLEX
SERIES

IS 1.86 FULL COLOR (F)

Application: Indoor (Creative/Curved) | **Pixel Pitch**: 1.86 mm | **LED Type**: SMD1515
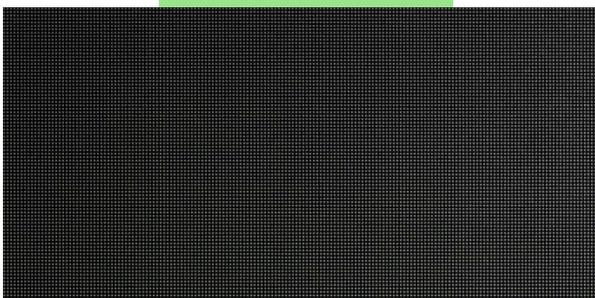**Resolution**: 172x86 | **Brightness**: >600cd/sqm | **Refresh Rate**: 3840 Hz
Drive Mode: 1/43 Scan | **Power Consumption**: ≤15 W/module
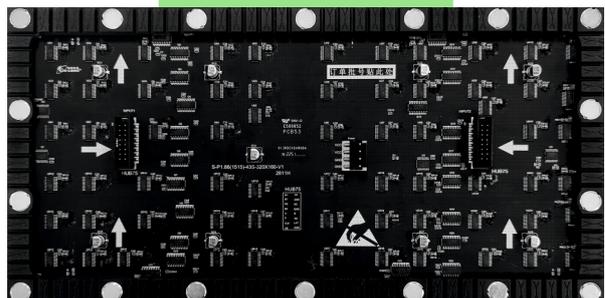
Description

IS 1.86 Full Color (F) transforms traditional flat-panel thinking into expressive, creative architecture. Designed using a flexible FPC circuit and reinforced silicone shell, it bends easily to a 30° angle, enabling spectacular installations like ribbons, spirals, columns, and waves. The ultra-thin profile (7.5 mm) allows seamless wall-hugging designs while preserving uniform brightness and visual fidelity. With magnetic mounting and embedded anti-warping magnets, it ensures secure and repeatable placement. Whether you're designing experiential retail, exhibition backdrops, or hotel lobbies, IS 1.86 (F) turns imagination into immersive display reality.

Module picture

Front view

Back view

IS 2.5 FULL COLOR (F)

Application: Indoor (Creative/Curved) | **Pixel Pitch**: 2.5 mm | **LED Type**: SMD2121
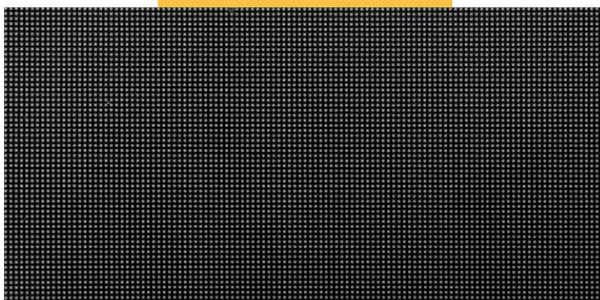**Resolution**: 128x64 | **Brightness**: >600 cd/m² | **Refresh Rate**: 3840Hz
Drive Mode: 1/32 Scan | **Power Consumption**: ≤17.5 W/module
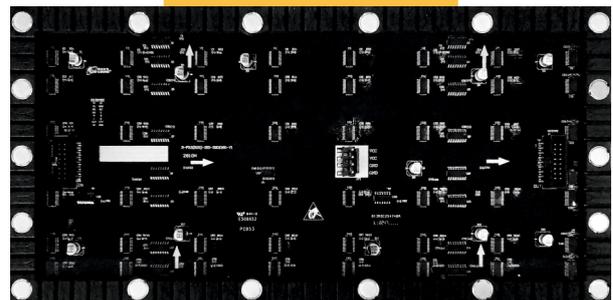
Description

The IS 2.5 Full Colour (F) flexible module from ALeda is engineered for versatility and seamless adaptability in environments that demand creativity and design freedom. The 2.5 mm pitch allows for brilliant resolution in close-view scenarios, while the curved form factor is ideal for artistic walls, exhibition zones, and thematic spaces. Built with 18 high-strength magnetic anchors and a bendable silicone frame, it handles structural complexity without compromising image quality. Paired with SMD2121 LEDs and low power draw, this module performs consistently in complex setups while supporting high refresh playback and smooth animation across any shape.

Module picture

Front view

Back view

Product technical parameters (IS 1.86 FULL COLOR (F))

Items	Technical parameters	
Unit Board	Module size	320mm (W)*160mm (H) * 7.5mm (T)4mm
	Pixel pitch	1.86 mm
	Pixel density	288906 dots/m2
	LED Specifications	SMD 1515
	Pixel Resolution	172 points (W) * 86 points (H)
	Unit Board Area	0.0512 ㎡
	Module Weight	0.27 kg±0.01 kg
Light Parameter	Optimal Viewing Distance	≥2.5m
	Best Viewing Angle	150 (H)/ 150 (V)
	Pixel Configuration	1R1G1B
	Brightness Range	>600cd/sqm
Electrical Parameter	Operating Voltage	DC 4.2-5V
	Max Power Consumption	≤ 15 W
	Drive Device	Constant current driver
	Drive mode	1/43 Scan
	Refresh rate	3840Hz
	Grayscale	13-14bit
	Control Method	synchronous
	Max Power Per Square Meter	≤ 293 w/㎡
	Power Distribution	442w /㎡ (maximum power per square ÷ 78% ÷ 85%)
System Operating Characteristic	Operating Environment	Indoor
	Operating Temperature	-10 ℃ ~ 40 ℃
	Operating Humidity Range	10% to 65 % RH (no condensation)
	Mean Time Between Failures	≥10000 hours
	Theoretical Service Life	≥ 100000 hours
	Blind Spot Rate	≤1/10000
	Decay Rate (3 years of operation)	≤15%
	Flatness	Screen level flatness <1mm/㎡

*If there is any update to product information, we will not provide additional notice and our company does not assume any obligation.

Product technical parameters (IS 2.5 FULL COLOR (F))

Items	Technical parameters	
Unit Board	Module size	320mm (W)*160mm (H)4mm
	Pixel pitch	2.5 mm
	Pixel density	160000 dots/m2
	LED Specifications	SMD 2121
	Pixel Resolution	128 dots (W)* 64 dots (H)
	Unit Board Area	0.0512 ㎡
	Module Weight	0.27 kg±0.01 kg
Light Parameter	Optimal Viewing Distance	≥2.5m
	Best Viewing Angle	140 (H)/ 130 (V)
	Pixel Configuration	1R1G1B
	Brightness Range	>600 cd /㎡
Electrical Parameter	Operating Voltage	DC 4.2-5V
	max power consumption	≤ 17.5 W
	Drive Device	Constant current driver
	Drive mode	1/32 scan
	Refresh rate	3840Hz
	Grayscale	13-14bit
	Control Method	synchronous
	Max Power Per Square Meter	≤ 341.8 w/m²
	Power distribution	515.5w /m² (maximum power per square ÷ 78% ÷ 85%)
System Working Characteristic	Operating Environment	Indoor
	Operating Temperature	-10 ℃ ~ 40 ℃
	Operating Humidity Range	10% to 65 % RH (no condensation)
	Mean Time Between Failures	≥10000 hours
	Theoretical Service Life	≥ 100000 hours
	Blind Spot Rate	≤1/10000
	Decay Rate (3 years of operation)	≤15%
	Flatness	Screen level flatness <1mm/㎡

*If there is any update to product information, we will not provide additional notice and our company does not assume any obligation.

LINEAR
LIGHTS

LW 20

Application: For both Outdoor & Indoor Lighting | **Type**: 20 Watt White | **Length**: 600 mm

Description

LW 20 is a compact, high-efficiency linear lighting fixture tailored for display counters, under-shelf lighting, and architectural accents. Its 600 mm profile and white LED output provide clean, even light with minimal power consumption. Designed for fast installation and long-term use, it features stable lumen performance and minimal heat generation, making it ideal for commercial and decorative settings.

Picture

LW 40

Application: For Outdoor and Indoor Lighting I **Type:** 40 Watt White
Length: 1200mm

Description

The LW 40 series delivers powerful illumination in a mid-length 1200 mm frame, ideal for office corridors, showrooms, and gallery walls. It's 40-watt output ensures consistent brightness over extended periods with low energy draw. Featuring a slim design, it integrates seamlessly with ceiling or wall mounts and supports both aesthetic and functional lighting objectives.

Picture

LW 80

Application: Indoor Lighting | **Type**: 80 Watt White | **Length**: 2400 mm
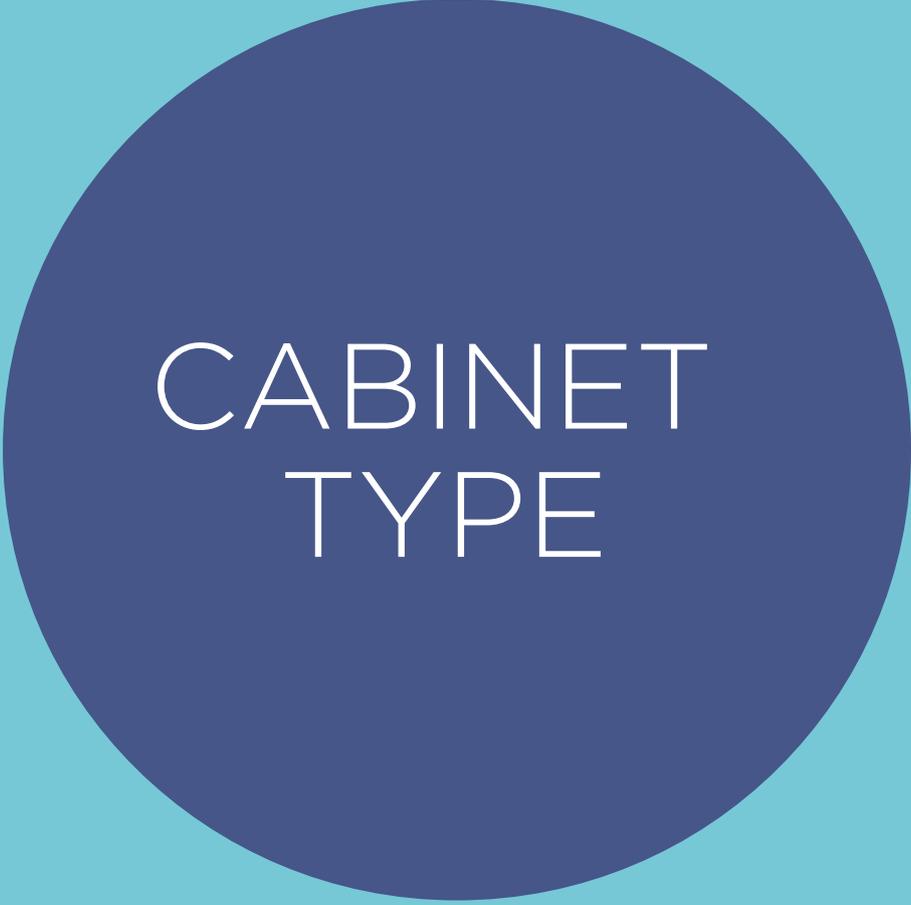
Description

LW 80 is built for expansive lighting needs such as industrial halls, long commercial aisles, and façade lighting. With an 80-watt rating and 2400 mm length, it ensures powerful white light delivery across wide areas. The design includes thermal balance, sturdy housing, and compatibility with modular installations, making it a preferred choice for performance-oriented linear illumination.

Picture

CABINET TYPE

AL - FS

Type: Aluminium Die-cast Front Service

Width	Height
1280	1280
960	960
640	480
960	640

Description

"An aluminium die-cast front service cabinet is an LED display enclosure constructed from aluminium and is IP65 approved. Designed for scenarios where rear access is limited, its "front service" feature means all display components can be accessed and maintained from the front, suitable for outdoor use."

Module picture

Front view

Back view

AL - RS

Type: Aluminium Die-cast Rear Service

Width	Height
1280	1280
960	960
640	480
960	640

Description

An aluminum die-cast rear-service cabinet is an IP65-rated LED display enclosure designed for outdoor use. Unlike the front-service type, all components are accessed and maintained from the back.

Module picture

Front view

Back view

IR - FS

Type: Iron MS Front Service

Width	Height
1280	1280
960	960
640	480
960	640

Description

An iron MS (mild steel) front service cabinet is an LED display enclosure constructed from mild steel and is IP65 approved. Designed for scenarios where rear access is limited, its "front service" feature means all display components can be accessed and maintained from the front, suitable for outdoor use.

Module picture

Front view

Back view

IR - RS

Type: Iron MS Rear Service

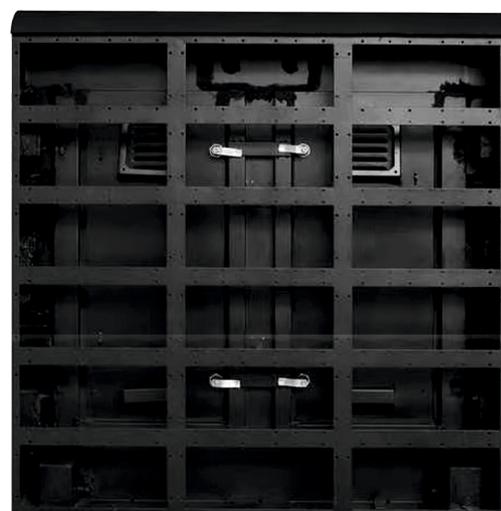| Width	Height
1280	1280
960	960
640	480
960	640

Description

The iron MS (mild steel) rear-service cabinet is an IP65-rated LED display enclosure made for outdoor use. Unlike front-access models, all components in this design are accessed and maintained from the back.

Module picture

Front view

Back view

ALEDA

www.aledaled.com

ALEDA NEXTGEN PRIVATE LIMITED

Registered Office:

Martin Burn Building,
1 R N Mukherjee Road, Suite 52,
Kolkata, West Bengal 700001

Manufacturing Unit:

Plot No 25, Industrial Park 4,
Arrow Industrial Area, Begumpur
Uttarakhand – 249402

Email: info@aledaled.com, raunak@aledaled.com
Phone: +91 70030 09407 / +91 89814 46415