

AURORA
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www.ablighting.ae

ABTECH Lighting Solutions

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DATASHEET

MAGNETIC TRACK

48V Magnetic Track Lighting System



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MAGNETIC TRACK



Description

Aurora 48V Magnetic Track Lighting System is a flexible architectural lighting solution combining magnetic rails, spotlights, linear fixtures, drivers, and accessories within a modular low-voltage platform supporting ON/OFF and DALI control systems.

APPLICATIONS & SYSTEM ADVANTAGES

- Suitable for retail, hospitality, offices, and luxury residential projects
- Supports accent, ambient, display, and directional lighting applications
- Flexible fixture positioning and modular system expansion
- Smart lighting automation and scene control compatibility
- Safe low-voltage architectural lighting platform
- Minimal and modern ceiling integration
- Unified system with multiple lighting fixture options

Key Feature

- **Easy installation**
repositioning, and future expansion
- **Wide Variants Options**
Available in various sizes, wattages, beam angles, and CCT options
- **Available Control Options**
ON/OFF, centralized DALI, and individual DALI control
- **Flexible and cost-effective**
control configurations based on project requirements
- **Complete DC48V**
magnetic lighting system with spotlights, pendant lights, linear lights, anti-glare fixtures, and adjustable linear lighting solutions
- **Clean architectural**
integration for modern interior spaces
- **High-quality aluminum**
rails with durable thickness and premium copper conductors

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LIGHTING FIXTURE TYPES

• Adjustable Spotlights



Wattage	5W / 10W / 20W / 30W
CCT	3000K / 4000K
Beam Angle	36°
CRI	90
Voltage	DC48V
Finish	Black

	Available Dimensions	Luminous flux
5W	Φ37.5 × 100 mm	497 lm
10W	Φ47.2 × 105 mm	690 lm
20W	Φ62 × 144.5 mm	1606 lm
30W	70 × 150 mm	2400 lm

• Linear Diffused Lights



Wattage	10W / 18W / 24W
CCT	3000K / 4000K
Beam Angle	120°
CRI	90
Voltage	DC48V
Finish	Black

	Available Dimensions	Luminous flux
10W	300 × 22 × 43 mm	540 m
18W	600 × 22 × 43 mm	1039 lm
24W	900 × 22 × 43 mm	1656 lm

• Linear Anti-Glare Lights



Wattage	12W / 18W / 24W
CCT	3000K / 4000K
Beam Angle	36°
CRI	90
Voltage	DC48V
Finish	Black

	Available Dimensions	Luminous flux
12W	220 × 22 × 43 mm	672 lm
18W	326 × 22 × 43 mm	874 lm
24W	434 × 22 × 43 mm	1175 lm

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• Adjustable Linear Lights



Wattage	6W / 12W
CCT	3000K / 4000K
Beam Angle	36°
CRI	90
Voltage	DC48V
Finish	Black

Available Dimensions		Luminous flux
6W	122 × 22 × 110 mm	323 lm
12W	223 × 22 × 110 mm	628 lm

• Magnetic Pendant Lights



Wattage	7W
CCT	3000K / 4000K
Beam Angle	24°
CRI	90
Voltage	DC48V
Finish	Black
Mounting	Magnetic Pendant

Available Dimensions		Luminous flux
7W	Φ40 × 250 mm	384 lm

DRIVER CONTROL OPTIONS

Driver Type	Control Type	Brand
100W Driver	ON/OFF	AURORA BOREALE
200W Driver	ON/OFF	

Dali Control Options

Driver Type	Control Type	Brand		
Centralized Driver	DALI	TRIDONIC	TCI ^{LED} professional led applications	AURORA BOREALE
Built-in Fixture Driver	DALI	LTECH	TCI ^{LED} professional led applications	AURORA BOREALE

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TRACK RAIL TYPES

• Recessed Track Rail



Type	Recessed Trim Rail
Length	2000 mm / 3000 mm
Thickness	2.5 mm
Material	Extruded Aluminum
Finish	Black
System Voltage	DC48V
Mounting Types	Recessed
Rail Lengths	2M / 3M

• Surface Track Rail



Type	Surface Mounted Rail
Length	2000 mm / 3000 mm
Thickness	2 mm
Material	Extruded Aluminum
Finish	Black
System Voltage	DC48V
Mounting Types	Surface
Rail Lengths	2M / 3M

ACCESSORIES

End Power Feed length 50CM



Power Conductive Connector



Recessed Horizontal Corner

- Dimension: 100*100MM
- Color: black
- Voltage: DC48V
- Cut: W34*H35MM



Surface Horizontal Corner

- Dimension: 100*100MM
- Color: black
- Voltage: DC48V
- Cut: W34*H35MM





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