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Nano Liner Allegro AC XB

XB.N0.xxxxxxx
XB.N1.xxxxxxx
XB.N2.xxxxxxx
XB.N3.xxxxxxx

The Nano Liner Allegro AC XB series is a slim profile, AC line powered high brightness luminaire. The series is phase-cut dimmable, and is available in four lengths, from 300mm to 1200mm, color temperatures 3000K / 4000K / 6500K, and optics. The luminaire can be simply daisy-chained to form long runs up to 15m (50ft) 120V and 25m (80ft) 230V.

OSRAM

IP66

PRODUCT SPECIFICATIONS

- **Light Source:** 9, 18, 27, 36 LEDs
- **Color Temperature:** 3000K / 4000K / 6500K
- **Beam Angle:** 40°, 50°x10°
- **Luminous Flux:** 635 – 865 lm per 300mm (1ft)
- **Efficacy:** 60 – 84 lm/W
- **Cover Lens:** Tempered glass cover
- **Housing:** Aluminium extrusion
- **Adjustment Options:** ±90° tilt
- **Size:** 309mm / 611mm / 912mm / 1214mm (L) x 42mm (W) x 78mm (H)
  12” / 24” / 36” / 48” (L) x 1.7” (W) x 3” (H)
- **Weight:** 1.4kg/3.1lbs; 2.3kg/5.1lbs; 3.1kg/6.8lbs; 3.9kg/8.6lbs
- **Regulatory Listing & Safety Approval:** Electrical Protection Class II, CE, cETLus (pending)
- **Operating Temperature:** –30°C to +50°C / –22°F to +122°F (–20°C/–4°F starting)
- **Storage Temperature:** –40°C to +70°C / –40°F to +158°F
- **Environment:** Outdoor (IP66)
- **Humidity:** 85%, non-condensing

ELECTRICAL SPECIFICATIONS

- **Input Voltage:** 120V AC, 230V AC nominal
- **Power Consumption:** 11W per 300mm (1ft) max.

SYSTEM SPECIFICATIONS

- **Power:** AC line
- **Control:** Phase-cut dimmable[1]
- **Power Supply:** Built-in
- **Fixture Interconnection[2]:** 15m/50ft (max.)@120VAC; 25m/80ft (max.)@230VAC

1. Refer to Nano Liner Allegro AC XB Compatible Dimmer List for specific details
2. Interconnect WITHOUT dimmer

This product is NOT suitable for coastal environments. Any such installation will void the product warranty.

LED CHARACTERISTICS Because LEDs are semiconductor devices, their performances are subject to inherent variability commonly found in semiconductor industry. To improve consistency in performance across the same product, LED manufacturers “sort” LEDs into bins according to different preset parameters, such as forward driving voltage, illumination, etc. Whereas binning is a sorting function, it is not a correction process. Inherent variability in the manufacturing process results always in different binning distributions according to different production lots. Traxon uses automatically binned LEDs on its products, thereby minimizing output variations within the model range.

As with all electronic devices, LED output degrades over time – a term called lumen depreciation. This also explains why it is nearly impossible to expect photometric performances of two LED products with different service life spans to be the same. The rate of LED degrade is a complicate function of many factors such as operating efficiency, duration of continuous operation, and more significantly, environmental conditions (ambient temperature for example). If allowed working under optimal operating temperature range and with good ventilation, LED devices enjoy long service lives over conventional light sources. When using/installing LED devices, care should be taken to ensure that the devices will operate within the operating conditions specified in respective product literature.

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Photometrics

SOURCE SPECIFICATIONS

Source: 9 / 18 / 27 / 36 High intensity power LEDs

Optics: 50°x 10°

Cover Lens: Tempered glass cover

CCT: 3000K, 4000K, 6500K

CANDELA DISTRIBUTION

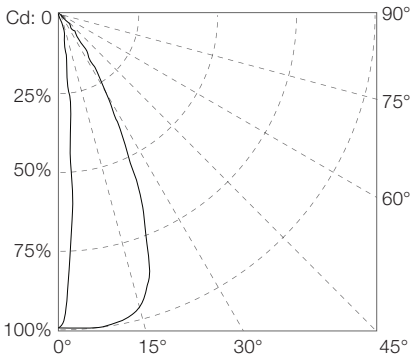


Diagram based on XB-18 3000 K

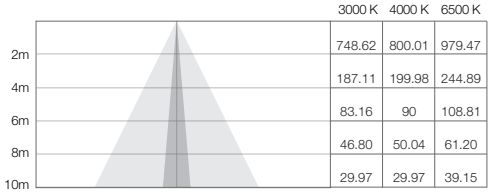
LIGHT OUTPUT

Color Temperature	Luminous Flux (lm)	Candela Distribution @100%	Efficacy lm/W
XB-9			
3000 K	636.10	3394.50	59.7
4000 K	682.59	3556.71	65.9
6500 K	865.48	4575.29	84.6
XB-18			
3000 K	1268.78	6792.24	59.7
4000 K	1365.18	7113.43	65.9
6500 K	1730.96	9150.58	84.6
XB-27			
3000 K	1908.29	10183.50	59.7
4000 K	2047.77	10670.14	65.9
6500 K	2596.44	13725.87	84.6
XB-36			
3000 K	2544.38	13578	59.7
4000 K	2730.36	14226.85	65.9
6500 K	3461.92	18301.16	84.6

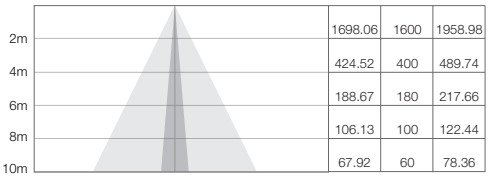
Preliminary photometric data

ILLUMINANCE AT A DISTANCE

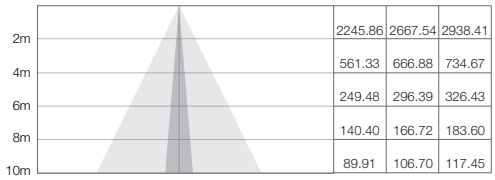
XB-9



XB-18



XB-27



XB-36

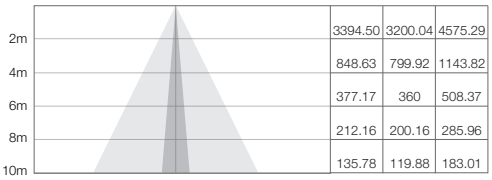


Diagram based on 3000 K measurement
For feet multiply by 3.28

Vert.Spread: 9.5°
Horiz.Spread: 52.5°
For fc divide by 10.7

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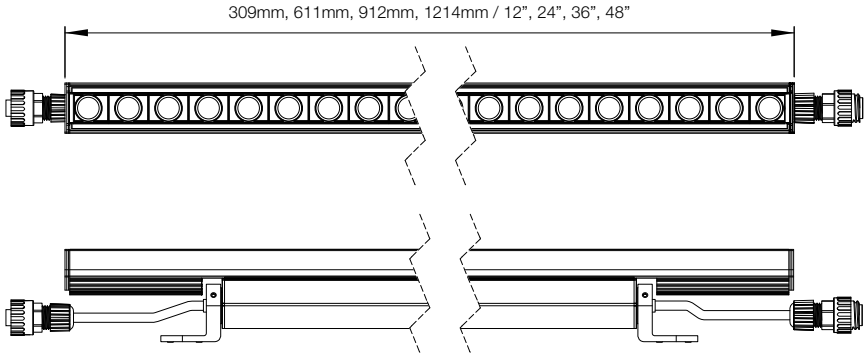
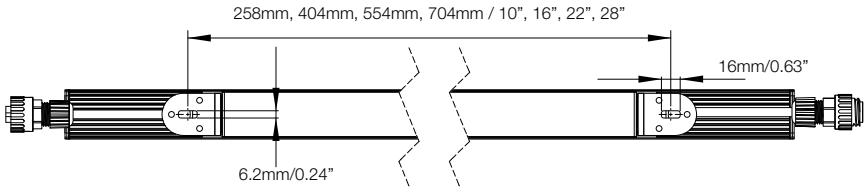
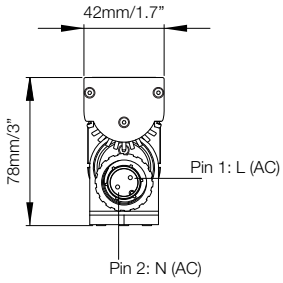
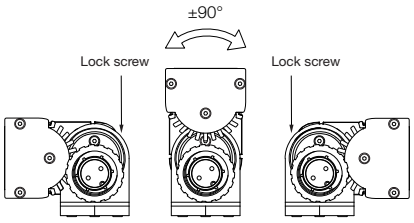
Dimensions

TECHNICAL DRAWING









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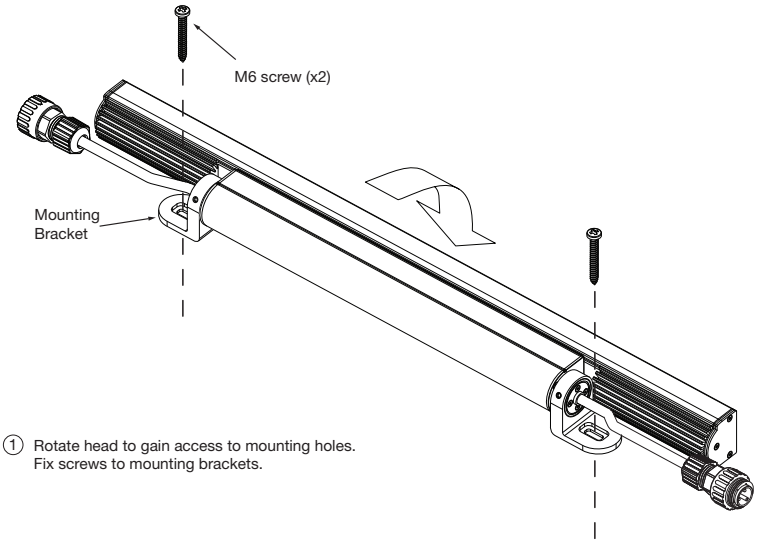
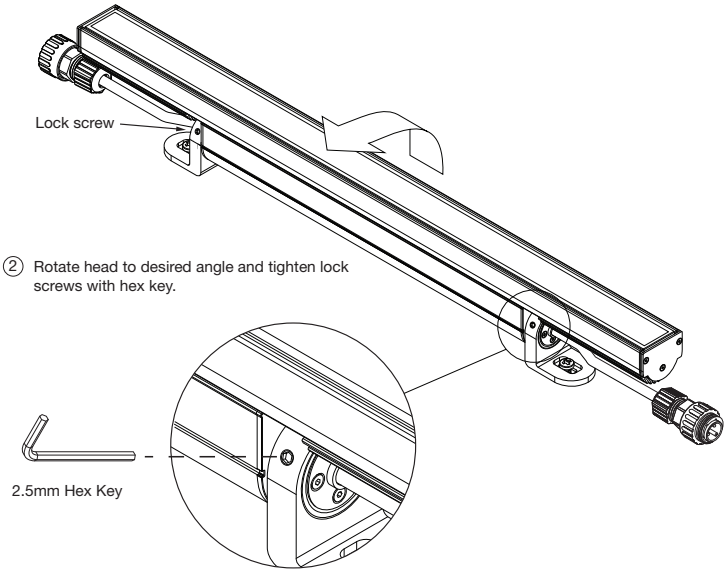
Mounting

MOUNTING



① Rotate head to gain access to mounting holes.
Fix screws to mounting brackets.



② Rotate head to desired angle and tighten lock screws with hex key.

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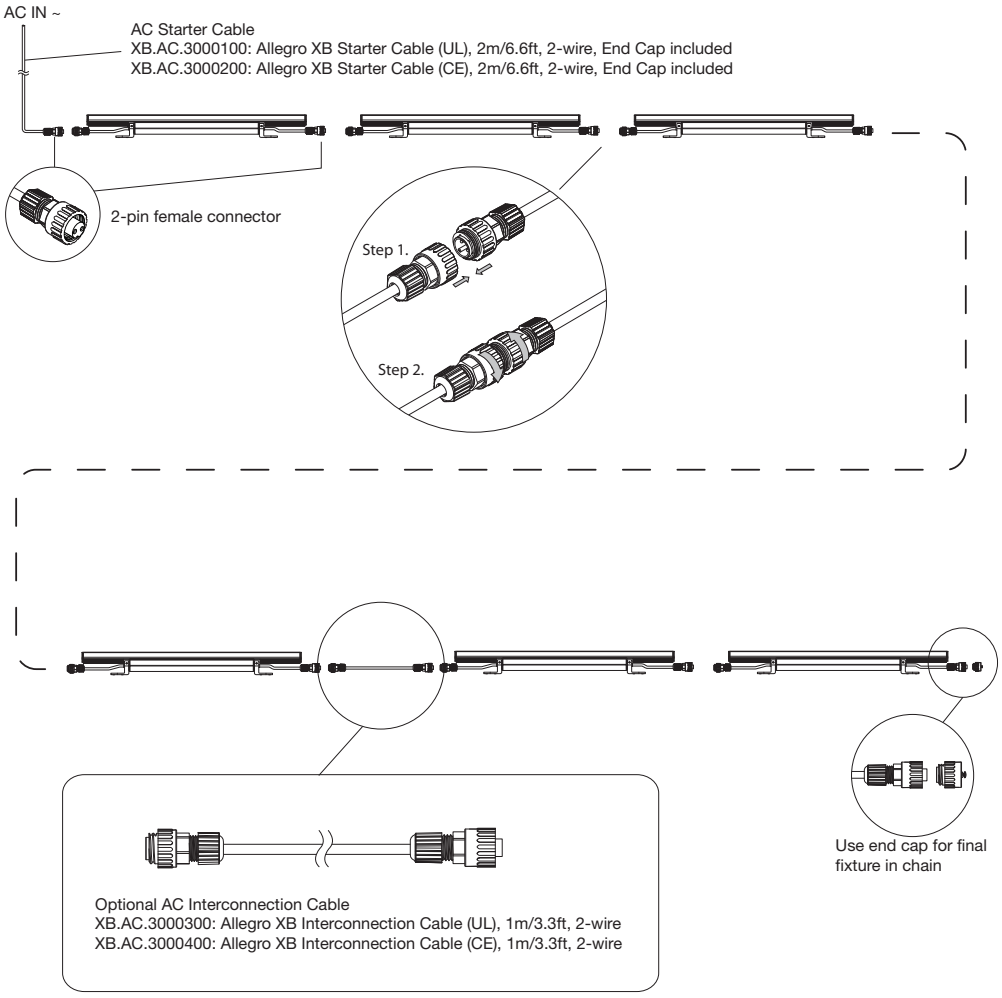
System Diagram

SYSTEM DIAGRAM



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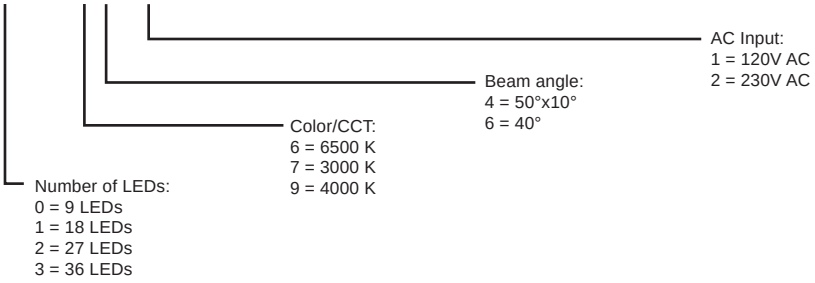
Accessories

MODEL NUMBER

XB.Nx.83xx1x0



STANDARD ACCESSORIES (included in delivery)

Model No.	Description
	Cable Retainer Clips

OPTIONAL ACCESSORIES

Model No.	Description
XB.AC.3000100	Allegro XB Starter Cable (UL), 2m/6.6ft, incl. End Cap
XB.AC.3000200	Allegro XB Starter Cable (CE), 2m/6.6ft, incl. End Cap
XB.AC.3000300	Allegro XB Interconnection Cable (UL), 1m/3.3ft, 2-wire
XB.AC.3000400	Allegro XB Interconnection Cable (CE), 1m/3.3ft, 2-wire