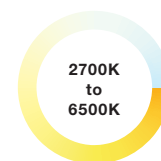# COOLON

ARIA TW

LINEAR AC FLOODLIGHT PRJ-ARIA-TW

Aria TW is a high power linear AC floodlight luminaire with tunable white control, specifically designed for creative wall washing and grazing applications. Powerful, robust and available in multiple length options which allow for greater design flexibility. The luminaire features an integral power supply and DALI driver.

POWER (AC)	LUMINOUS FLUX		TUNABLE WHITE

23W
24.4W / 600mm unit

1,469 – 2,050 lm

2700K to 6500K

46W
46.8W / 1,200mm unit

2,910 – 4,206 lm

eldoLED

POLYURETHANE ENCAPSULATION

Aria TW utilises Coolon's encapsulation technology to deliver a truly extraordinary outdoor luminaire. IP66 and IK08, shock and abrasion resistance, thermal protection and reliability are all ensured.

STREAMLINED TOPOLOGY

Aria TW is truly plug and play - your luminaires arrive to site ready to perform, simplifying lighting design, electrical layout and installation.

Aria TW's design allows a system to be connected via integral all-in-one cables without further accessories and junction boxes.

Unpack. Connect. Enjoy.
Installation has never been simpler.

L90

LONG OPERATING LIFE

Coolon products use the world's most reputable LED manufacturers and the latest available standards to adequately report lumen maintenance. We strive to drive LEDs under their nominal current and use state-of-the-art heat dissipation methods, leading to durable electronics.

VARIOUS CCT & COLOUR BINNING CONSISTENCY

All products are offered in various colour temperatures, and manufactured using tighter bins, ensuring excellent consistency and uniformity.

5 YEARS

5 YEARS WARRANTY

Coolon luminaires are covered by a solid comprehensive manufacturer's warranty that covers a range of possible defects and performance parameters throughout the duration of the warranty period.

PROUDLY MADE IN AUSTRALIA

Our products are designed and manufactured in Australia. Engineered to perfection, using only the highest quality components and highly skilled labour, each luminaire is assembled and thoroughly tested to ensure that it exceeds the highest standards.

■ TECHNICAL SPECIFICATIONS

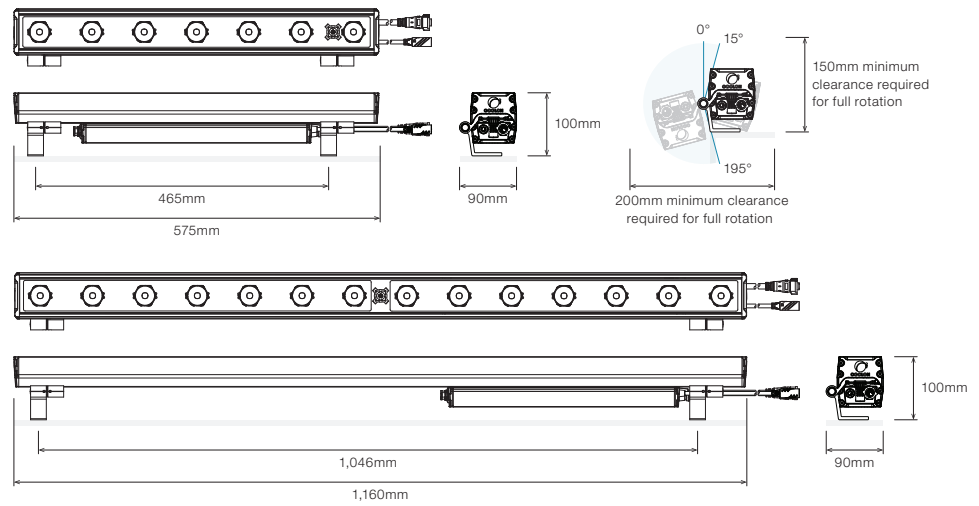|		
Product Code	PRJ-ARIA-TW-06	PRJ-ARIA-TW-12
Variation	Tunable White	
Length	600mm	1,200mm
Nominal Power	23W	46W
Body	Aluminium Alloy Body	
Finish	Brushed Natural Anodised, Brushed Black Anodised	
Cover	Polyurethane	
Endcaps	Powdercoated Die-cast Aluminium	
Cables	Standard or Low Smoke Zero Halogen (LSZH) – On Request	
Weight	4.2kg	6.2kg
LEDs per Luminaire	7 clusters of 4 Nichia E17 (24 pieces per luminaire)	
Input Voltage	120 – 250VAC	
Input Frequency Range	50 – 60Hz	
Power Factor (PF)	> 0.9 (At full Power)	
Max. Inrush Current	< 200mA²s @ 120V / 60Hz < 200mA²s @ 230V / 50Hz < 200mA²s @ 277V / 60Hz	
Leakage Current	< 100 µA	
Total Harmonics Distortion (THD)	< 2% (At full Power)	
Max. Input Power	28W	50W
Max. Continuous Connection Length	Up to 32 Units @ 230VAC Up to 32 Units @ 120VAC	Up to 32 units @ 230VAC Up to 20 Units @ 120VAC
Dimming / Control	Through DALI-2 Device Type 6	
External Heatsink Required	No	
Ambient Operating Temperature	Ta -40°C to 50°C	
Reported Lumen Maintenance TM21-11 (@ Ts = 85°C, If = 700mA)	NCSLE17A L90 (10K) = 32,200 hours L70 (10K) > 60,000 hours Aria TW Max. operating values (@ Ts = 70°C, If = 680mA)	
IP Rating	IP66 (Standard)	
IK Rating	IK08 (Standard) - Not including Wiring / Connectors	

■ POWER & LUMEN OUTPUT

23W 24.4W / 600mm unit	20D	30D	52D	O3215D	O6010D	RO3215D	RO6010D
■ 2700K	1,595 lm	1,470 lm	1,570 lm	1,697 lm	1,469 lm	1,697 lm	1,469 lm
■ 3000K	1,996 lm	1,653 lm	1,826 lm	2,026 lm	1,753 lm	2,026 lm	1,753 lm
■ 4000K	1,914 lm	1,770 lm	1,901 lm	2,050 lm	1,774 lm	2,050 lm	1,774 lm

46W 46.8W / 1,200mm unit	20D	30D	52D	O3215D	O6010D	RO3215D	RO6010D
■ 2700K	3,160 lm	2,912 lm	3,111 lm	3,363 lm	2,910 lm	3,363 lm	2,910 lm
■ 3000K	3,953 lm	3,643 lm	3,892 lm	4,206 lm	3,640 lm	4,206 lm	3,640 lm
■ 4000K	3,728 lm	3,436 lm	3,670 lm	3,967 lm	3,433 lm	3,967 lm	3,433 lm

▪ DIMENSIONS

WITH ROTATING BRACKET

465mm

575mm

100mm

90mm

0° 15°

195°

150mm minimum clearance required for full rotation

200mm minimum clearance required for full rotation

1,046mm

1,160mm

100mm

90mm

WITH ROTATING BRACKET AND GLARE SHIELD

465mm

590mm

136mm

96mm

0° 15°

195°

176mm minimum clearance required for full rotation
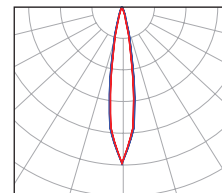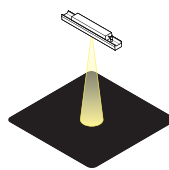
200mm minimum clearance required for full rotation

1,046mm

1,170mm

136mm

96mm
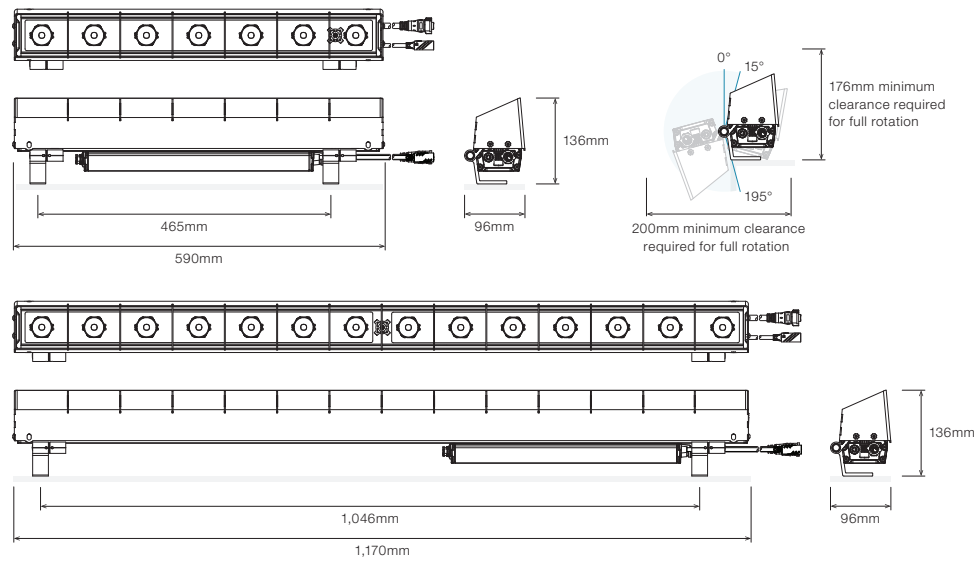
▪ POLAR DISTRIBUTION

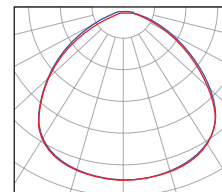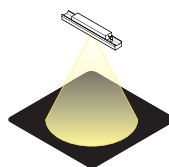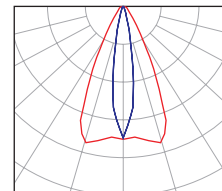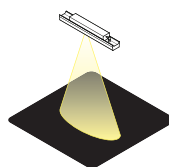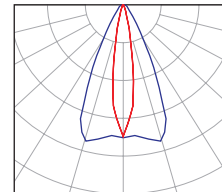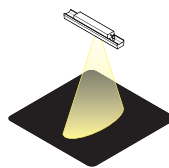| OPTIC		POLAR DISTRIBUTION
20D Narrow Beam 20° Beam Angle		
30D Medium Beam 30° Beam Angle		
52D Wide Beam 52° Beam Angle		
O3215D Oval Beam Oval 32° x 15° Beam Angle		
RO3215D Oval Rotated Beam Oval 15° x 32° Beam Angle		
O6015D Oval Beam Oval 60° x 15° Beam Angle		
RO6015D Oval Rotated Beam Oval 15° x 60° Beam Angle		
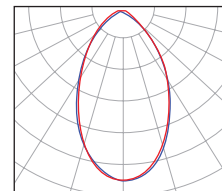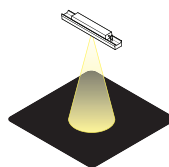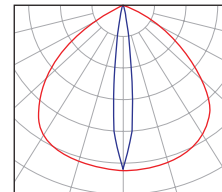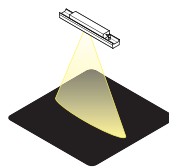
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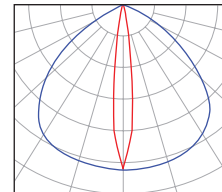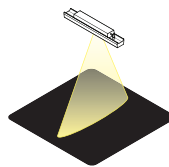
■ WIRING
DIAGRAMS

DALI INSTALLATION

DALI

MAINS

LEADER

EXTENSION

*NOTE 1

LEADER

EXTENSION

*NOTE 1

Tc

Tc
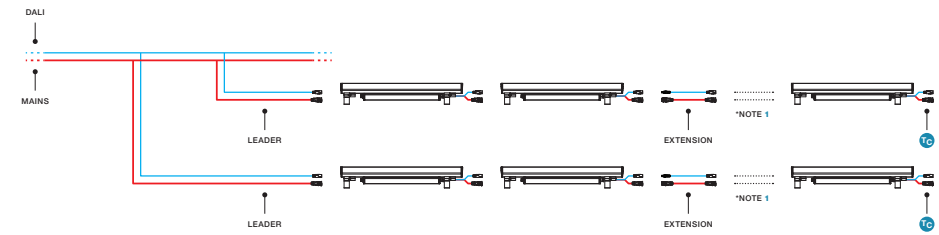
1 Control limits defined by the DALI system

0–10V INSTALLATION

0 – 10V

MAINS LEADER

*NOTE 1

0 – 10V

MAINS LEADER

*NOTE 1
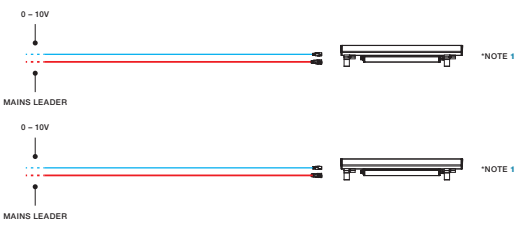
1 Single luminaire control

CASAMBI INSTALLATION

DALI PSU

DATA LEADER

*NOTE 2

CBU-A2D

OTHER
DALI
DEVICES

MAINS LEADER

EXTENSION

*NOTE 3

Tc

*NOTE 1

DALI PSU

DATA LEADER

*NOTE 2

CBU-A2D

OTHER
DALI
DEVICES

MAINS LEADER

EXTENSION

*NOTE 3

Tc

OTHER CASAMBI DEVICES
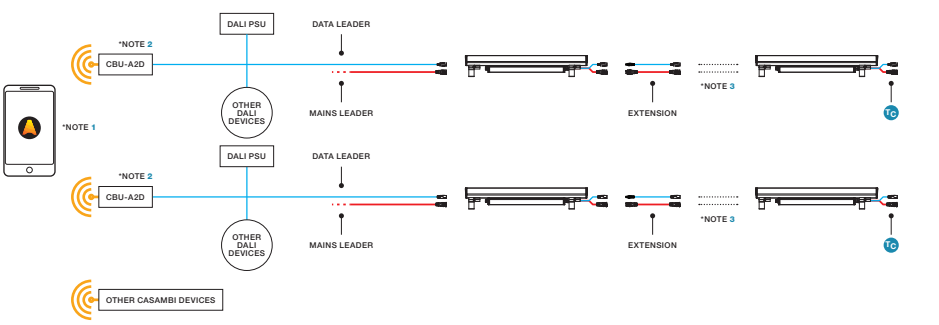
1 Please refer to Casambi's documentation about system limits and range
2 Please refer to CBU-A2D documentation for reference
3 Control limits defined by the DALI system

Tc ⎯ Termination Caps

■ CONNECTOR
PIN-OUTS

Power Output
(Female)

Power Input
(Male)
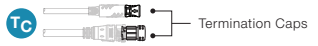
1 Active
2 Neutral
3 Earth

DIMMING CONTROL
DALI Tunable White

Control Output
(Female)

Control Input
(Male)

1 DALI (+)
2 DALI (−)
3 NC

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- PROFILE
  COLOUR

BNA · Brushed Natural Anodised

BLK · Brushed Black Anodised

- IP RATING

IP66

Fully protected against dust.
Protected against wave-like
water jets from all directions.
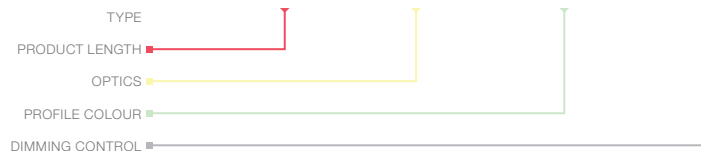
- ## ORDERING EXAMPLE

PRJ - ARIA TW - 12 - O3215D - BNA - DT6TW

TYPE

PRODUCT LENGTH

OPTICS

PROFILE COLOUR

DIMMING CONTROL

■ PRODUCT LENGTH

06	575mm
12	1,160mm

■ OPTICS
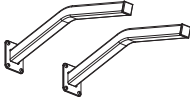
20D	20° Beam
30D	30° Beam
52D	52° Beam
O3215D	Oval 32° x 15° Beam
RO3215D	Oval 15° x 32° Beam Rotated 90°
O6015D	Oval 60° x 15° Beam
RO6015D	Oval 15° x 60° Beam Rotated 90°

■ PROFILE COLOUR

BNA	Brushed Natural Anodised
BLK	Brushed Black Anodised

■ DIMMING CONTROL

DT6TW	DALI Tunable White
DT6TW_CB [1]	DALI Tunable White
CAS-CBU-A2D	Casambi control through CBU-A2D

[1] CB Certification

▪ ACCESSORIES

PRODUCT CODE	DESCRIPTION
MOUNTING BRACKET [1]	
MBR-PRJ-ARM-500-WHT	Projector Outreach arm 500mm (1 unit), White
MBR-PRJ-ARM-850-WHT	Projector Outreach arm 850mm (1 unit), White
MBR-PRJ-ARM-1000-WHT	Projector Outreach arm 1000mm (1 unit), White
MBR-PRJ-ARM-500-BLK	Projector Outreach arm 500mm (1 unit), Black
MBR-PRJ-ARM-850-BLK	Projector Outreach arm 850mm (1 unit), Black
MBR-PRJ-ARM-1000-BLK	Projector Outreach arm 1000mm (1 unit), Black
MBR-PRJ-ARM-500-CHR	Projector Outreach arm 500mm (1 unit), Chrome
MBR-PRJ-ARM-850-CHR	Projector Outreach arm 850mm (1 unit), Chrome
MBR-PRJ-ARM-1000-CHR	Projector Outreach arm 1000mm (1 unit), Chrome

[1] Two Outreach Arms required per lumimaire.

ACCESSORIES	
ACC-ARIA-SPK-06	Aria Bird Spikes 600mm length (Black)
ACC-ARIA-SPK-12	Aria Bird Spikes 1,200mm length (Black)
ACC-ARIA-GSH-06	Aria Glare Shield 600mm length (Black)
ACC-ARIA-GSH-12	Aria Glare Shield 1,200mm length (Black)

CABLE EXTENSIONS	
CBL-PRJ-CBLKIT-MADA-JK-IP68-0.6M	Aria Cable Kit Mains & Data – Joiner – IP68 – 0.6 Metre Kit Designed to Connect 1.2 Metre Units End-to-end
CBL-PRJ-CBLKIT-MADA-JK-IP68-2.5M	Aria Cable Kit Mains & Data – Joiner – IP68 – 2.5 Metre
CBL-PRJ-CBLKIT-MADA-JK-IP68-5M	Aria Cable Kit Mains & Data – Joiner – IP68 – 5 Metre
CBL-PRJ-CBLKIT-MADA-LK-IP68-0.2M	Aria Cable Kit Mains & Data Leader – IP68 – 250mm Data Leader Connector with Stripped Wires + 485mm Mains Leader Connector with Stripped Wires
CBL-PRJ-CBLKIT-MADA-TK-IP68	Mains & Data Termination Kit for Aria products (2 caps)

CONTROLS	
CAS-CBU-A2D	Casambi Bluetooth Controllable 2 Channel 0–10V / DALI Controller

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