COOLON

PLUME 10 AC TW

Plume 10 AC TW is a compact exterior spotlight engineered for dynamic colour temperature control and precision accent lighting. Designed to punch above its weight, it utilizes high-performance optics to graze textures, highlight architectural columns, and accentuate landscape features with exceptional control. It features an integrated AC power supply and control via on-board Casambi, making installation and wireless operation effortless.

POWER (AC)

10W
10W

BLK · Black Anodised

BRS · Brass Anodised

BNA · Brushed Natural Anodised

TUNABLE WHITE

2700K
to
6500K

CONTROL OPTIONS

CASAMBI

DALI

DMX

INSTALLATION MANUAL
Scan the QR Code or visit www.coolon.com.au/dl/arch-spt-plume-10-ac-manual

COOLON archsales@coolon.com.au   **aus.** 1300 287 533   **intl.** +613 8681 3633   www.coolon.com.au   Version 1.2

All documentation is subject to change without notice. Refer to our website for the latest information.   Page 2

TUNABLE WHITE

Reproduce and maintain perfect white light ranging from 2700 to 6500K. Colour temperature (CCT) and intensity control made simple.

CASAMBI

Casambi Bluetooth offers wireless control of the Plume TW. Do away with sophisticated control systems by utilizing a smartphone and Casambi application. Simply set up and control the luminaire as desired.

DALI and DMX supported via external controllers.

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 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.

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▪ TECHNICAL SPECIFICATIONS

Product Code	SPT- PLUME 10 AC TW
Lumen Output (Neutral White)	335 lm / O3511D-SC
Nominal Power	10W
Description	Plume 10 AC TW Spotlight
Body	Aluminium Alloy Body
Finish	Brushed Natural / Brass / Black Anodised
Cover	Glass
Endcap	Polycarbonate
LEDs per Luminaire	1 unit / 4 in 1 TW LED (WW: 2500K to 2700K. CW: 6000K to 7000K)
Input Voltage	120 – 250VAC
Input Frequency Range	47 – 63Hz
Inrush Current	Meets NEMA-410 requirements
Leakage Current	< 250 µA @ 250VAC
Max. Input Power	11W
Colour Rendering Index (CRI)	80+
Dimming / Control	Casambi onboard, DALI/DMX supported via external converters
External Heatsink Required	No
Ambient Operating Temperature	Ta -10°C to 50°C
Reported Lumen Maintenance TM21-11 (@ Ts = 90°C, If = 1,500mA)	MN-S5060 L90 (6K) = 13,000 hours L70 (6K) > 33,000 hours Plume 10 AC TW Max. operating values (@ Ts = 85°C, If = 1,000mA)
IP Rating	IP66 (Standard)
IK Rating	IK07 (Standard) - Not including Wiring / Connectors
Weight	633g — With No Acessories 825g — With SMB · Surface Mounting Bracket 751g — With BJMB · Ball Joint Mounting Bracket 619g — With TRMB · Track Mounting Bracket 42g — Anti Glare Visor

The Bluetooth radio signal from the devices can be limited by its surroundings (In some situations the range of a Bluetooth signal can be dramatically reduced if a device is installed in a metal enclosure, or if thick stone walls or other possible constructional restrictions are affecting the signal strength coming from the device).
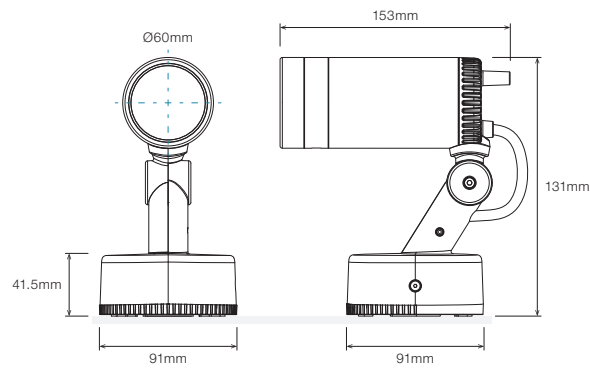
▪ POWER & LUMEN OUTPUT

PLUME 10 TW SC	07D	10D	15D	30D	56D	O3511D
▪ WW (~2700K)	317 lm	310 lm	304 lm	193 lm	178 lm	328 lm
▪ NWT (~4000K)	330 lm	333 lm	313 lm	197 lm	186 lm	335 lm
▪ CWT (~6500K)	346 lm	337 lm	322 lm	209 lm	191 lm	356 lm

PLUME 10 TW HM	07D	10D	15D	30D	56D	O3511D
▪ WW (~2700K)	221 lm	216 lm	212 lm	155 lm	143 lm	263 lm
▪ NWT (~4000K)	230 lm	232 lm	220 lm	158 lm	149 lm	268 lm
▪ CWT (~6500K)	241 lm	235 lm	225 lm	168 lm	153 lm	285 lm

▪ DIMENSIONS

SURFACE MOUNT BRACKET

Ø60mm
153mm
131mm
41.5mm
91mm
91mm

SURFACE MOUNT BRACKET WITH ANTI GLARE VISOR

Ø64.5mm
170mm
134mm
41.5mm
91mm
91mm
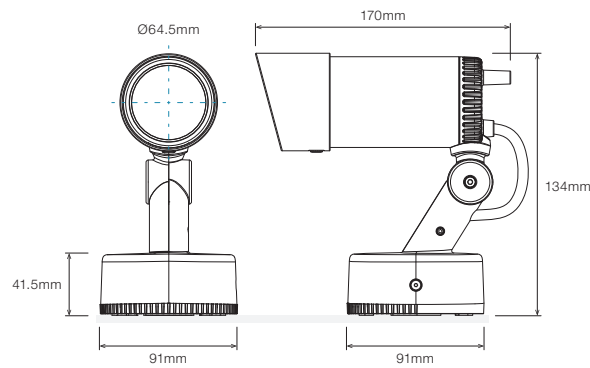
SURFACE MOUNT BRACKET ROTATION

90°
0°
45°
215mm
245mm minimum clearance required for full rotation
180mm minimum clearance required for full rotation

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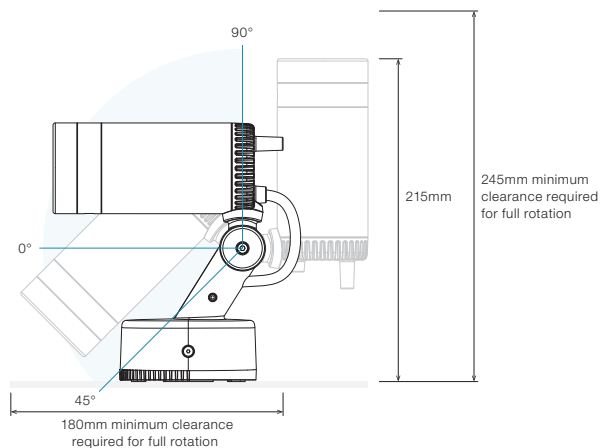
▪ DIMENSIONS

BALL JOINT MOUNTING BRACKET

Ø60mm

153mm

131mm

14mm

50mm

Supplied with mains leader
+ AU Australian Plug
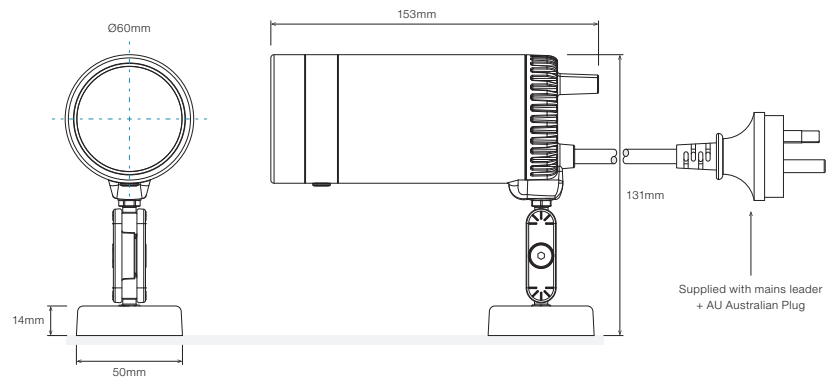
BALL JOINT MOUNTING BRACKET WITH ANTI GLARE VISOR

Ø64.5mm

170mm

134mm

14mm

50mm

Supplied with mains leader
+ AU Australian Plug

BALL JOINT MOUNTING BRACKET ROTATION

0°

90°   90°

90°   90°

0°
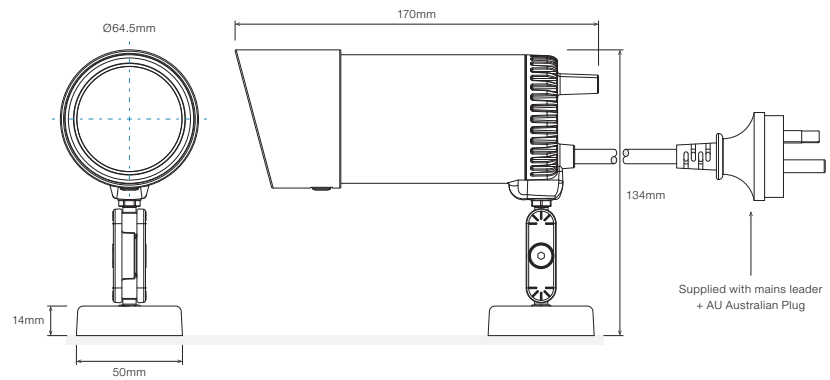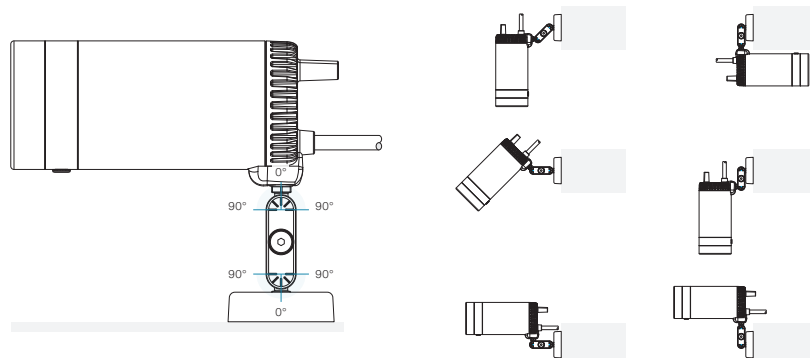
▪ DIMENSIONS

TRACK MOUNTING BRACKET

77.5mm

133mm

Ø60mm

153mm

98mm

TRACK MOUNTING BRACKET ROTATION

90°

0°
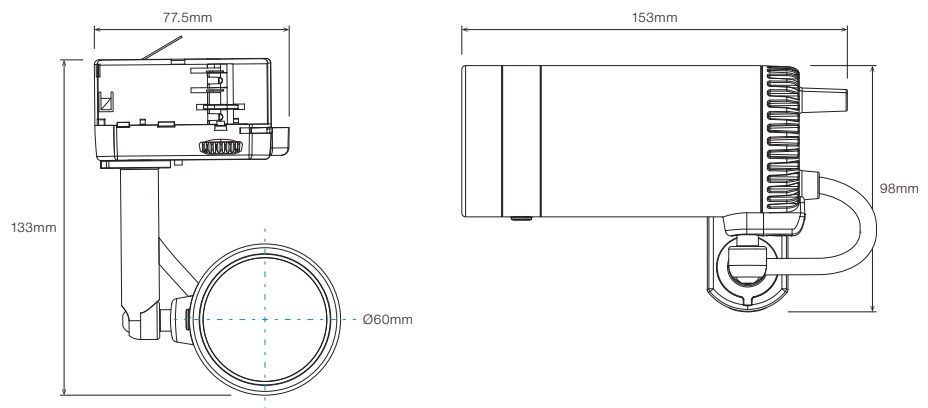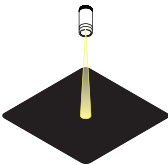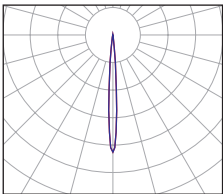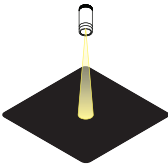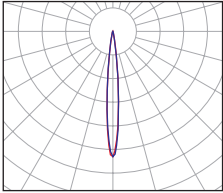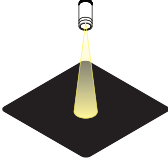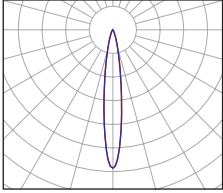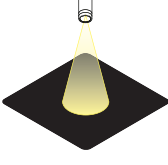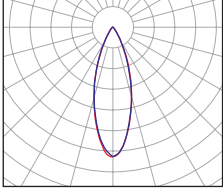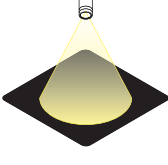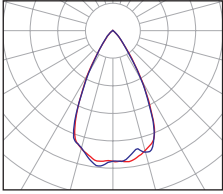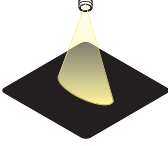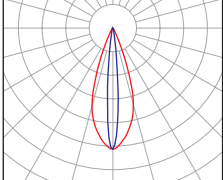
COOLON
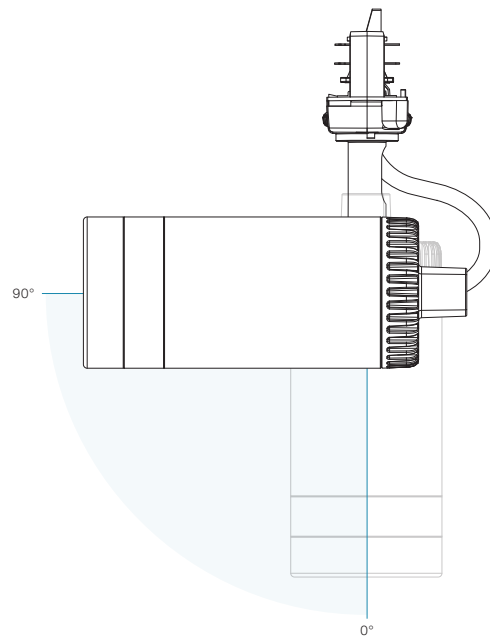
▪ POLAR DISTRIBUTION

| OPTIC		POLAR DISTRIBUTION
07D Narrow Beam 7° Beam Angle		
10D Narrow Beam 10° Beam Angle		
15D Medium Beam 15° Beam Angle		
30D Medium Beam 30° Beam Angle		
56D Wide Beam 56° Beam Angle		
O3511D Oval Beam Oval 35° x 11° Beam Angle		

▪ IP RATING

IP66

Fully protected against dust.
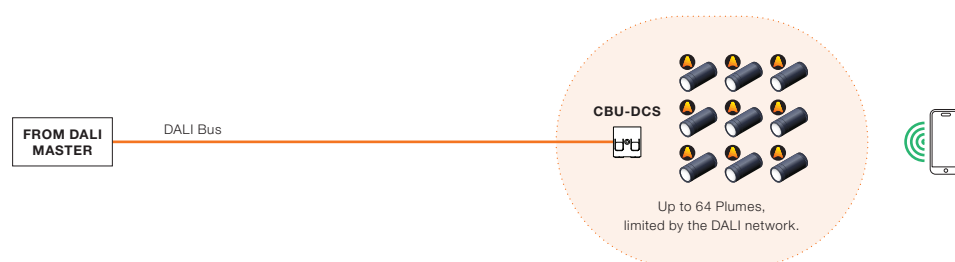Protected against wave-like
water jets from all directions.
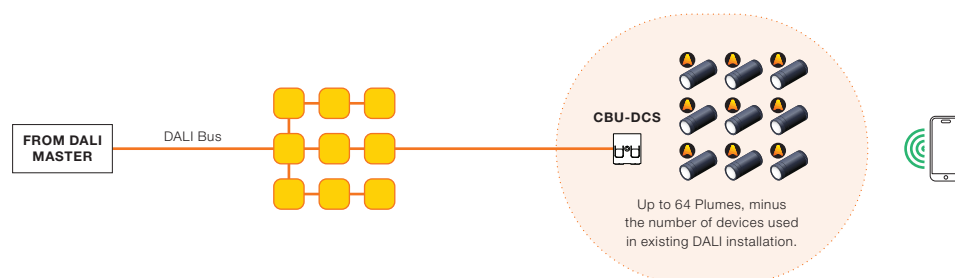
▪ WIRING DIAGRAMS

CASAMBI INSTALLATION

CASAMBI MESH NETWORK

Up to 249 Plumes in an evolution Casambi mesh network.
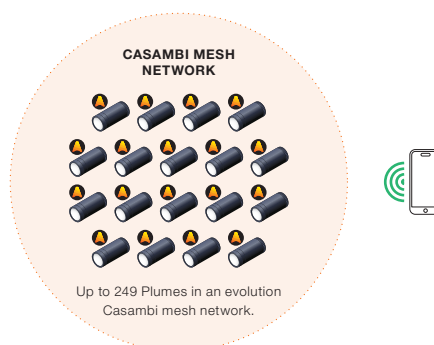
Plume not recommended for Classic Casambi Networks

NEW DALI INSTALLATION

FROM DALI MASTER — DALI Bus — **CBU-DCS**

Up to 64 Plumes, limited by the DALI network.

Max total luminaires + input devices is the same for one DALI network (CBU-DCS not included)

EXPAND EXISTING DALI INSTALLATION

FROM DALI MASTER — DALI Bus — **CBU-DCS**
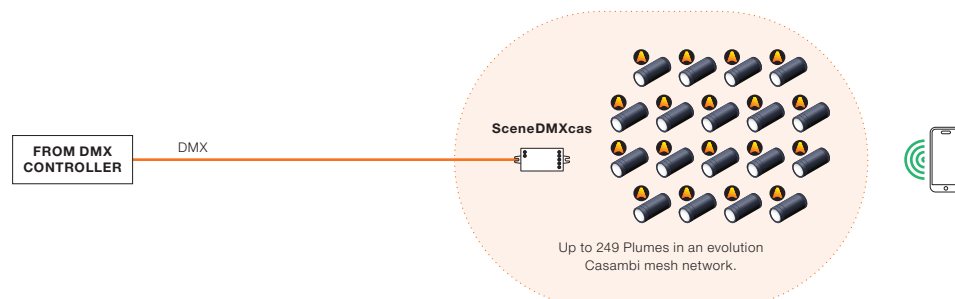
Up to 64 Plumes, minus the number of devices used in existing DALI installation.

Max total luminaires + input devices is the same for one DALI network (CBU-DCS not included)

DMX INSTALLATION

DMX as casambi scene trigger

FROM DMX CONTROLLER — DMX — **SceneDMXcas**

Up to 249 Plumes in an evolution Casambi mesh network.

SceneDMXcas provides scene and intensity selection for up to 20 pre-defined Casambi scenes.

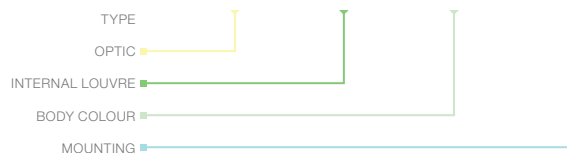The DMX Start Address for each SceneDMXcas is user selectable.

SceneDMXcas can be configured with the Casambi app.

SceneDMXcas requires an external 12 – 24VDC Class 2 power supply.

Please refer to SceneDMXcas documentation for detailed instructions.

ORDERING EXAMPLE

SPT-PLUME 10 AC TW - 30D - HL - BLK - SMB

TYPE
OPTIC
INTERNAL LOUVRE
BODY COLOUR
MOUNTING

OPTIC

07D	7° Beam (Far Throw Collimation)
10D	10° Beam
15D	15° Beam
30D	30° Beam
56D	56° Beam
O3511D	Oval 35° x 11° Beam

INTERNAL LOUVRE

| SC | Standard Clear |
| HL | Honeycomb Louvre |

BODY COLOUR

BLK	Black Anodised
BRS	Brass Anodised
BNA	Brushed Natural Anodised

MOUNTING

NA	No Mounting Included
SMB	Surface Mounting Bracket
BJMB	Ball Joint Mounting Bracket
TRMB	Track Mounting Bracket

ACCESSORIES

	PRODUCT CODE	DESCRIPTION
ACCESSORIES		
	ACC-PLUME-AGBL	Anti Glare Visor Black