COOLON

PLUME 10 DC SW

Plume 10 DC SW is a compact exterior spotlight engineered for precision accent and detail 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, starting from an ultra-narrow 3° distribution. The unit is powered from an external SELV source, and the inclusion of weatherproof cable extensions and splitters ensures ample layout possibilities. Control via on-board Casambi makes both installation and wireless operation effortless.

POWER (DC)

10W
9.8W

BLK · Black Anodised   **BRS** · Brass Anodised   **BNA** · Brushed Natural Anodised

COLOUR TEMPERATURE

2700K   3000K   3500K   4000K
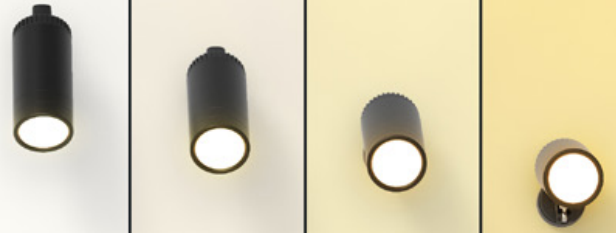
CONTROL OPTIONS

CASAMBI   DALI   DMX

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

SINGLE WHITE

Plume SW delivers consistent, high-quality white illumination, rendering architectural features in beautiful, true-to-life colours.

CASAMBI

Casambi Bluetooth offers wireless control of the Plume SW. 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.

L70

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.

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TECHNICAL SPECIFICATIONS

Product Code	SPT- PLUME 10 DC SW
Lumen Output (Neutral White)	374 lm / 10D SC
Nominal Power	9.8W
Description	Plume 10 DC SW Spotlight
Body	Aluminium Alloy Body
Finish	Brushed Natural / Brass / Black Anodised
Cover	Tempered Glass
Endcap	Polycarbonate
LEDs per Luminaire	1 unit / 1 SW LED
Input Voltage Range	23 – 48VDC
Recommended Supply Voltage	48VDC
Max. Input Power	12W
Colour Rendering Index (CRI)	90+
Dimming / Control	Casambi onboard, DALI/DMX supported via external converters
External Heatsink Required	No
Ambient Operating Temperature	Ta -10°C to 50°C
Lumen Maintenance TM21	L90 / B50 (6K) = 13,800 hours
	L70 / B50 (6K) > 36,300 hours
Max. # of Units per Run	Up to 35 Units @ 48VDC
	Up to 30 Units @ 42VDC
	Up to 25 Units @ 30VDC
	Up to 10 Units @ 24VDC
	(Ensure distances and loads allow the for operating voltage above 23V)
Approvals	RCM
IP Rating	IP66
IK Rating	IK07 - Not including Wiring / Connector
Weight	543g With No Acessories
	735g With SMB · Surface Mounting Bracket
	662g With BJMB · Ball Joint Mounting Bracket
	706g With SPIKE · Spike Mount
	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).
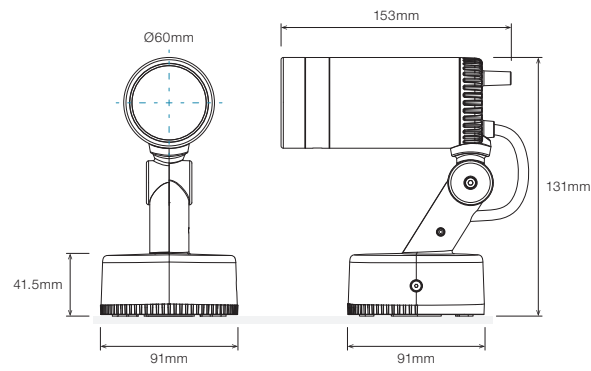
POWER & LUMEN OUTPUT

PLUME 10 DC SW SC	03D	04D	07D	10D	15D	30D	56D	O3511D
3.5KCRI	380 lm	368 lm	376 lm	374 lm	355 lm	316 lm	338 lm	363 lm

PLUME 10 DC SW HM	03D	04D	07D	10D	15D	30D	56D	O3511D
3.5KCRI	248 lm	247 lm	234 lm	233 lm	221 lm	197 lm	203 lm	226 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
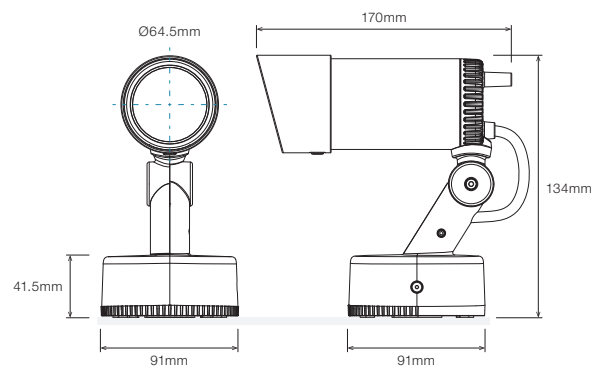
SURFACE MOUNT BRACKET ROTATION

90°

245mm minimum
clearance required
for full rotation

215mm

0°

45°

180mm minimum clearance
required for full rotation

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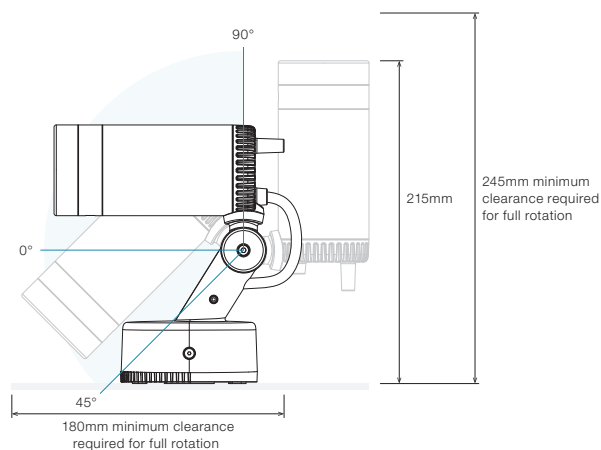
▪ DIMENSIONS

BALL JOINT MOUNTING BRACKET

Ø60mm
153mm
131mm
14mm
50mm
1 metre cable with Push Lock Plug
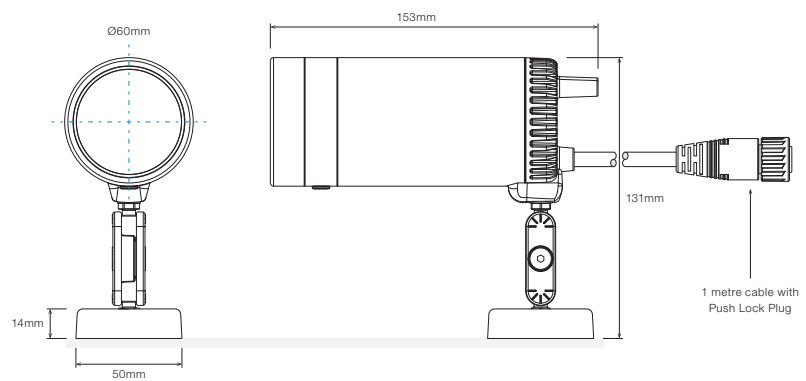
BALL JOINT MOUNTING BRACKET WITH ANTI GLARE VISOR

Ø64.5mm
170mm
134mm
14mm
50mm
1 metre cable with Push Lock Plug
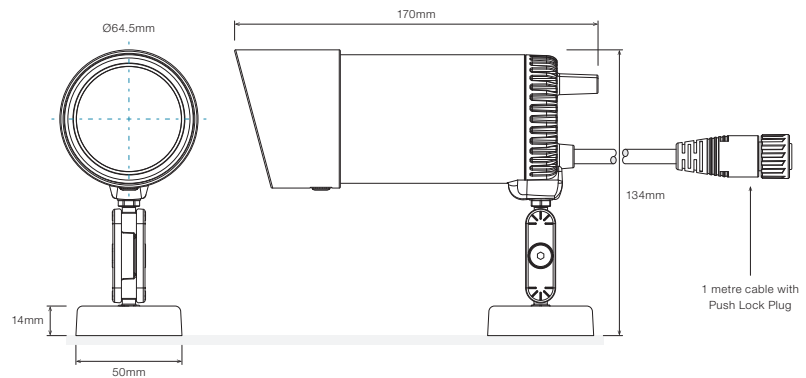
BALL JOINT MOUNTING BRACKET ROTATION

0°
90°   90°
90°   90°
0°
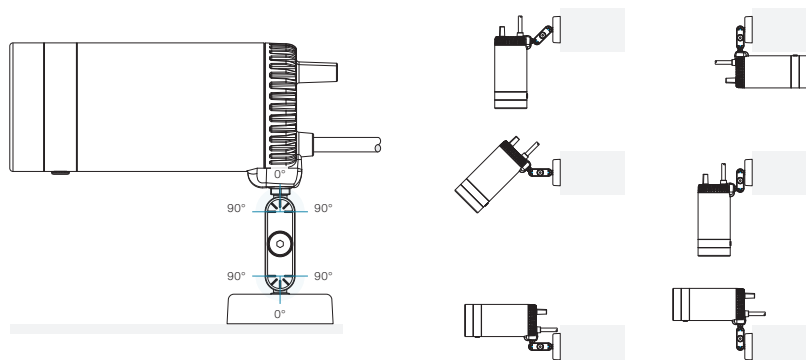
▪ DIMENSIONS

SPIKE MOUNT
ACC-PLUME-SPIKE265-BLK
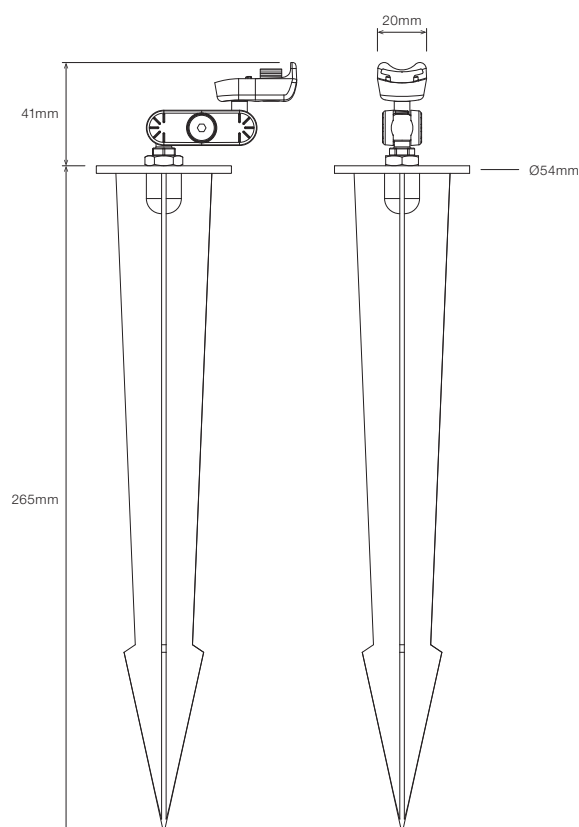
20mm

41mm

Ø54mm

265mm

F TYPE SPLITTER 1X IN, 2X OUT
CBL-SPT-OC2_1M2F-DC-SPLJ-IP67-0.5M

70mm   500mm Cable Length   54mm

F TYPE SPLITTER 1X IN, 4X OUT
CBL-SPT-OC2_1M4F-DC-SPLJ-IP67-0.5M
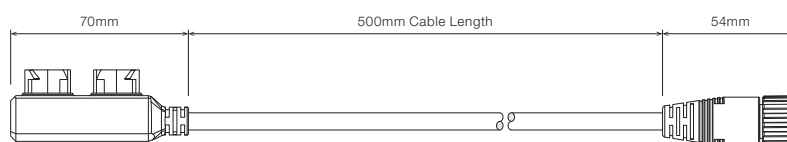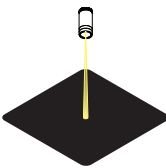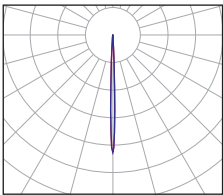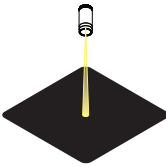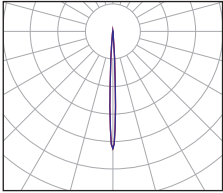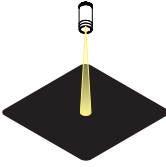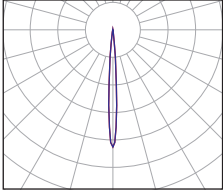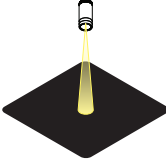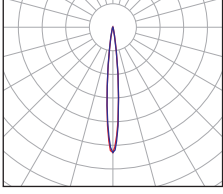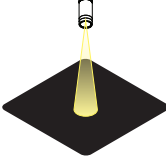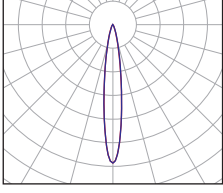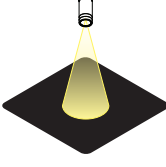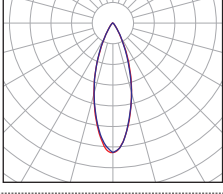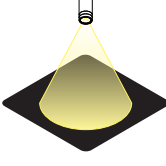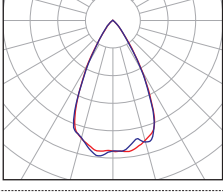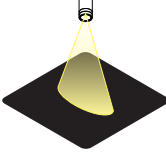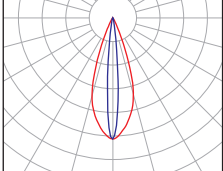
134mm   500mm Cable Length   54mm
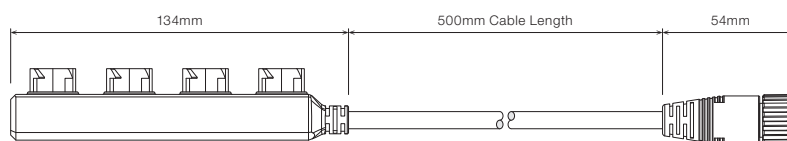
▪ POLAR DISTRIBUTION

OPTIC		POLAR DISTRIBUTION
03D Narrow Beam 3° Beam Angle		
04D Narrow Beam 4° Beam Angle		
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
  (POWER)

OUTDOOR IN-LINE CABLE JOINER
CBL-GEN-OC3-DC-J-IP68

POWER SUPPLY

1 METRE PLUME LEADER CABLE
CBL-SPT-OC2FO-DC-L-IP67-1M

F TYPE SPLITTER 1X IN, 4X OUT
CBL-SPT-OC2_1M4F-DC-SPLJ-IP67-0.5M

2.5 / 5 METRE PLUME EXTENSION
CBL-SPT-OC2MF-DC-J-IP67-2.5M / 5M

F TYPE SPLITTER 1X IN, 2X OUT
CBL-SPT-OC2_1M2F-DC-SPLJ-IP67-0.5M

2.5 / 5 METRE PLUME EXTENSION
CBL-SPT-OC2MF-DC-J-IP67-2.5M / 5M
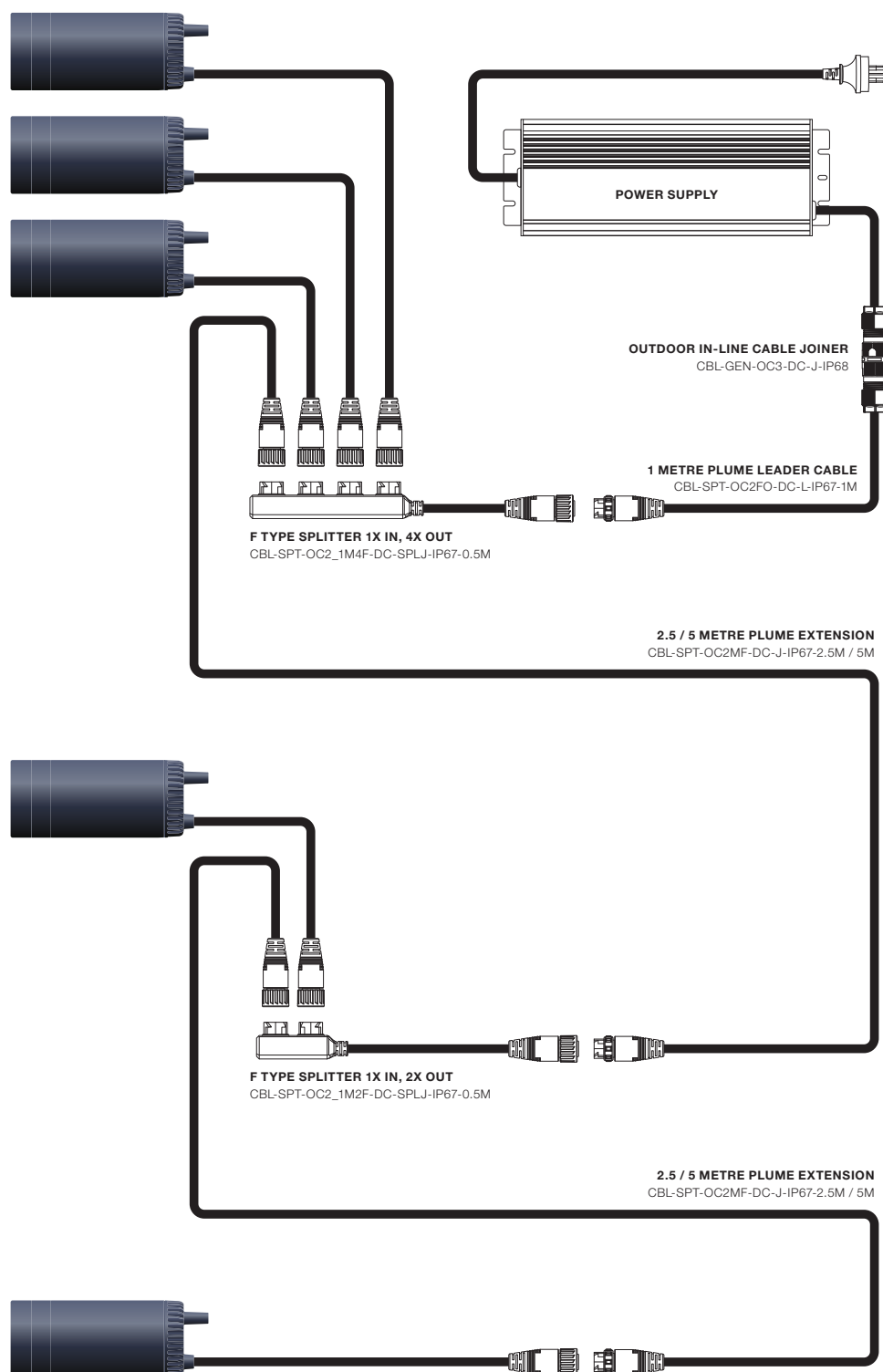
Splitters and extensions can be used as required within the following limits:

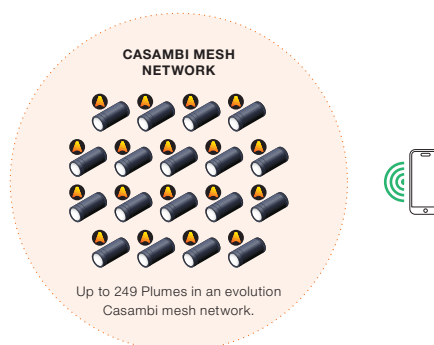DC wiring from power supply to last unit: Up to 20 metres @48V / Up to 5 metres @24V.

Max. # of units per run: Up to 35 Units @ 48V / Up to 30 Units @ 42V / Up to 25 Units @ 30V / Up to 10 Units @ 24V.

Uncoil all cables. 10A max through current.

Consult Coolon for special wiring requirements.
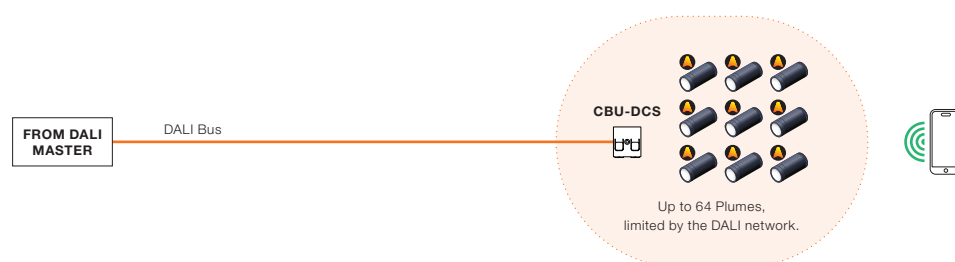
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▪ WIRING DIAGRAMS (CONTROL)

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**
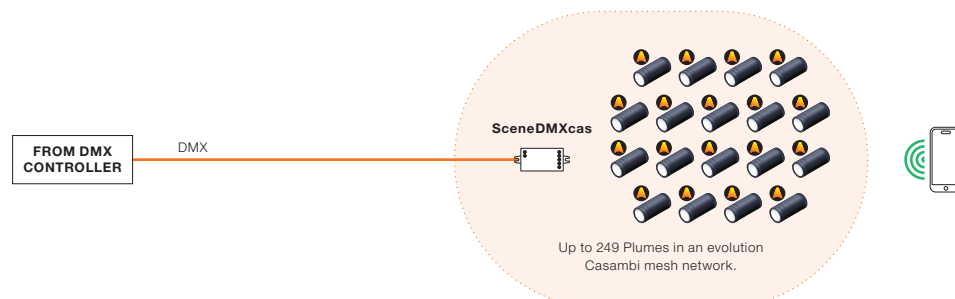
Up to 64 Plumes, minus the number of devices used in existing DALI installation.
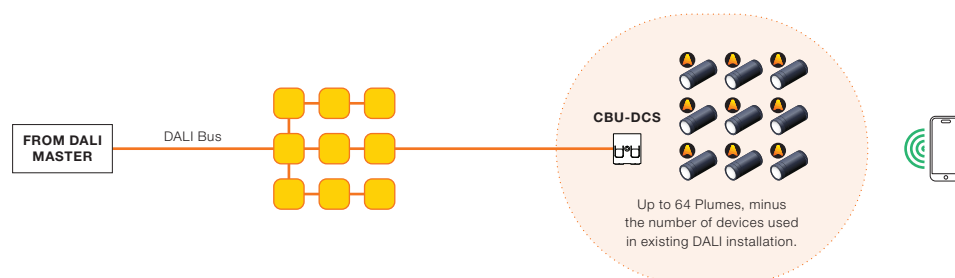
Max total luminaires + input devices is the same for one DALI network (CBU-DCS not included)

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.

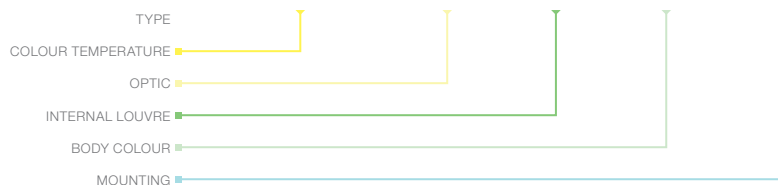The DMX Start Address for each SceneDMXcas is user selectable.

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.

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- ## ORDERING EXAMPLE

SPT-PLUME 10 DC SW - 3.0KCRI - 30D - HL - BLK - SMB

TYPE
COLOUR TEMPERATURE
OPTIC
INTERNAL LOUVRE
BODY COLOUR
MOUNTING

COLOUR TEMPERATURE

2.7KCRI	2700K
3.0KCRI	3000K
3.5KCRI	3500K
4.0KCRI	4000K

OPTIC

03D	3° Beam
04D	4° Beam
07D	7° Beam
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
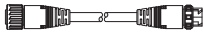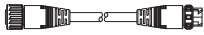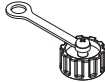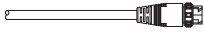
BODY COLOUR

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

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▪ ACCESSORIES

	PRODUCT CODE	DESCRIPTION
ACCESSORIES		
	ACC-PLUME-AGBL	Anti Glare Visor Black
	ACC-PLUME-SPIKE265-BLK	Spike Mount 265mm Long, Black
	CBL-SPT-OC2_1M2F-DC-SPLJ-IP67-0.5M	F Type Splitter 1x IN, 2x OUT
	CBL-SPT-OC2_1M4F-DC-SPLJ-IP67-0.5M	F Type Splitter 1x IN, 4x OUT
	CBL-SPT-OC2MF-DC-J-IP67-2.5M	2.5 metre Plume Extension
	CBL-SPT-OC2MF-DC-J-IP67-5M	5.0 metre Plume Extension
	CBL-SPT-OC_M16-DC-T-IP67	Waterproof Cap
	CBL-SPT-OC2FO-DC-L-IP67-1M	1 metre Plume Leader Cable
	CBL-GEN-OC3-DC-J-IP68	Outdoor In-line Cable Joiner
POWER SUPPLY		
	PWR-HLG-100H-48AU	Mean Well Power Supply HLG 100W 48V IP67
	PWR-HLG-150H-48AU	Mean Well Power Supply HLG 150W 48V IP67
	PWR-HLG-240H-48AU	Mean Well Power Supply HLG 240W 48V IP67
	PWR-HLG-320H-48AU	Mean Well Power Supply HLG 320W 48V IP67
	PWR-HLG-480H-48	Mean Well Power Supply HLG 480W 48V IP67, No AU plug