Project: _____

Type: _____

# ARCHISHAPE® 2.0 Dot S

ARCHISHAPE® 2.0 Dot is a high-brightness, fully customizable media dot solution available in S, M or L with Clear or Diffused View lens to meet your project specifications. Each Dot is individually-addressable making ARCHISHAPE® 2.0 Dot a durable, scalable solution for vivid accents, graphics and video playback in installations of any size and complexity.

Intertek IP66

## Product Specifications

| Model | | Dot S Clear View | Dot S Diffused View |
|---|---|---|---|
| Number of Pixel | | 64 | |
| Light Source | RGB<br>RGBW | 3RGB<br>3RGB + 1W | |
| Color Range | | RGB, RGBW (White CCT: 6500K) | |
| Color Resolution | RGB<br>RGBW | 3 x 8-bit<br>4 x 8-bit | |
| Beam Angle | RGB<br>RGBW | 110°<br>110° | 150°<br>150° |
| Luminous Flux | RGB<br>RGBW | 16 lm<br>21 lm | 11 lm<br>14 lm |
| Luminous intensity | RGB<br>RGBW | 8 cd<br>11 cd | 2.6 cd<br>3.4 cd |
| Efficacy | RGB<br>RGBW | 16 lm/W<br>21 lm/W | 11 lm/W<br>14 lm/W |
| Cover Lens | | Clear View | Diffused View |
| Pixel Pitch | | 70mm/2.76” to 2000mm/78.74”<br>Standard: 150mm/6” or 300mm/12” | |
| Housing | | Polycarbonate | |
| Dimensions<br>(L x W x H, excluding Mounting Bracket) | | 53mm x 26mm x 15mm<br>2.09” x 1.02” x 0.59” | 53mm x 26mm x 20mm<br>2.09” x 1.02” x 0.79” |
| Weight | | 28.2g / 0.06lb | |
| Regulatory Listing & Safety Approval | | cETLus, FCC, ANSI 3G | |
| Operating Temperature | | -20°C to + 50°C/-4°F to +122°F | |
| Storage Temperature | | -40°C to + 80°C/-40°F to +176°F | |
| Environment | | Outdoor (IP66); IK09 | |
| Humidity | | 0 to 90% non-condensing | |

## Electrical Specifications

| | |
|---|---|
| Operating Voltage | 24V DC |
| Power Consumption[1] | 1W |

## System Specifications

| | |
|---|---|
| Control | DMX512 |
| Power Supply | LED Engine 100W 24V (Class 2) |
| Addressing Options | Auto-addressing with optional accessory and e:cue control, or manual addressing with 3rd party tool. |

1. Measurement per dot.
Specification is subject to change due to continuous improvement.

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.

Lumen measurement compiles with LM-79-08 standard.
Lumen maintenance is calculated based on LM-80 compliant measurement.

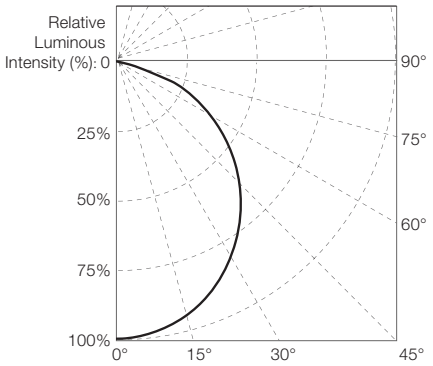
www.osram.us/traxon

## Source Specifications (Clear View)

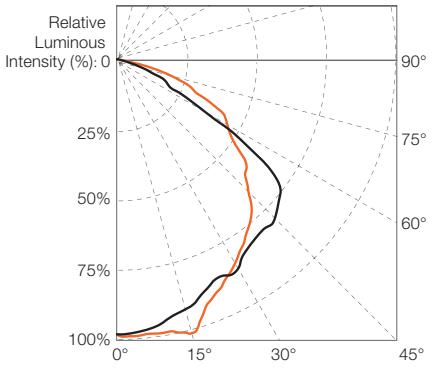
| | S |
|---|---|
| **Light Source** | RGB: 3RGB<br>RGBW: 3RGB + 1W |
| **Optics** | RGB: 110°<br>RGBW: 110° |

## Candela Distribution (Clear)

### RGB, Clear




### RGBW, Clear



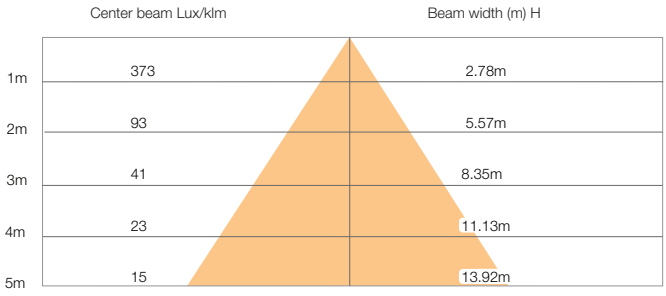

## Light Output

| | Color | Luminous Flux (lm) | Candela Distribution @100% | Efficacy (lm/W) |
|---|---|---|---|---|
| **Dot S RGBW** | **RGBW (Full-on)** | 20.50 | 10.25 | 20.50 |

| | Color | Luminous Flux (lm) | Candela Distribution @100% | Efficacy (lm/W) |
|---|---|---|---|---|
| **Dot S RGB** | **RGB (Full-on)** | 16.00 | 8.00 | 16.00 |

## Illuminance at a Distance

### RGB, Clear

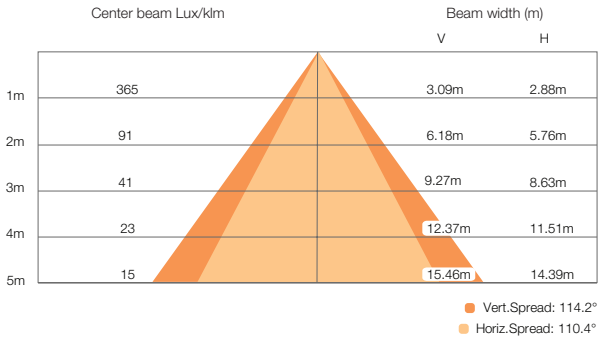



For fc divide by 10.7

For feet multiply by 3.28

IES and LDT files are available for download from the Traxon website.

### RGBW, Clear




For fc divide by 10.7

For feet multiply by 3.28

IES and LDT files are available for download from the Traxon website.

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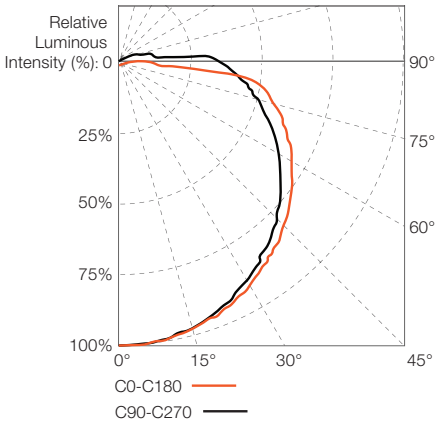
## Source Specifications (Diffused View)

| | S |
|---|---|
| **Light Source** | RGB: 3RGB<br>RGBW: 3RGB + 1W |
| **Optics** | RGB: 150°<br>RGBW: 150° |

## Candela Distribution

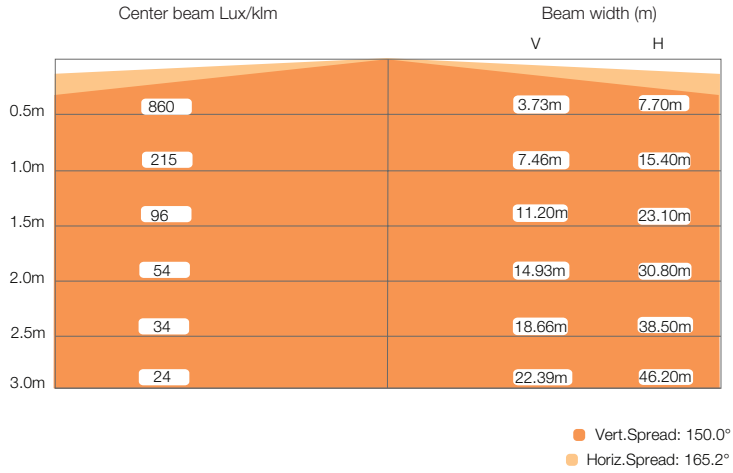



## Light Output

| | Color | Luminous Flux (lm) | Candela Distribution @100% | Efficacy (lm/W) |
|---|---|---|---|---|
| **Dot S RGBW** | **RGBW (Full-on)** | 13.70 | 3.42 | 13.70 |

| | Color | Luminous Flux (lm) | Candela Distribution @100% | Efficacy (lm/W) |
|---|---|---|---|---|
| **Dot S RGB** | **RGB (Full-on)** | 10.70 | 2.58 | 10.70 |

## Illuminance at a Distance

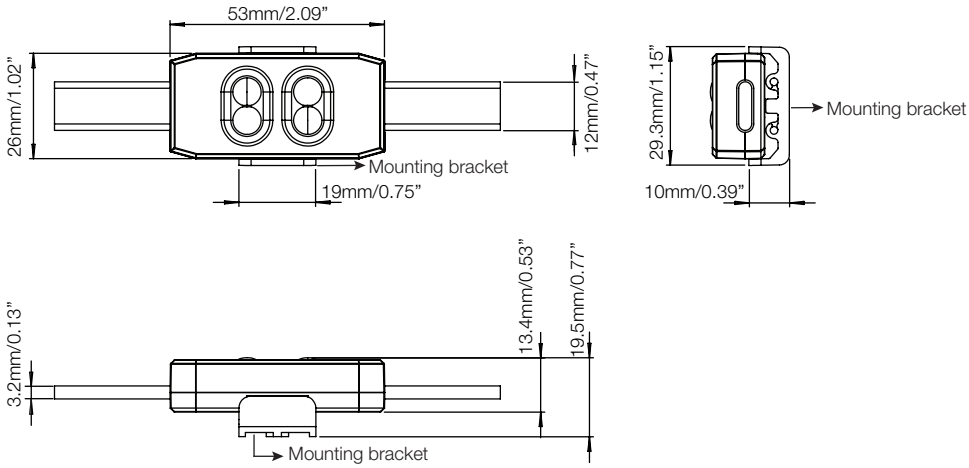



For fc divide by 10.7

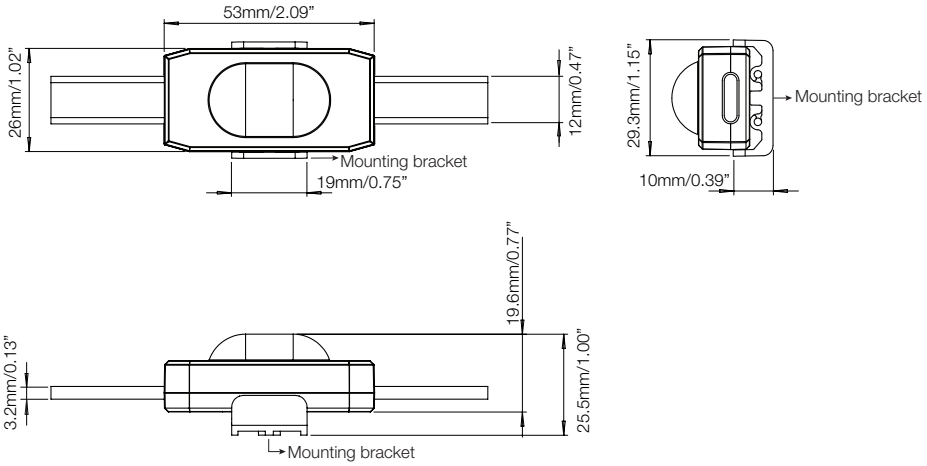
For feet multiply by 3.28

IES and LDT files are available for download from the Traxon website.

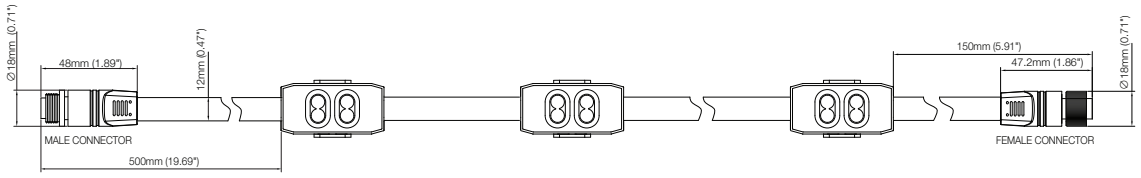
## Clear View




## Diffused View




## Input Connectors and Lead Cable

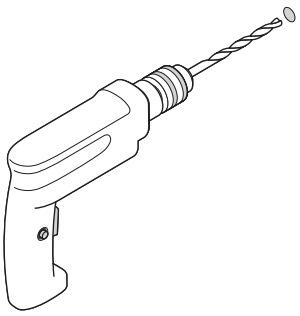



NOTE: Cable and connector dimensions are the same for ARCHISHAPE® 2.0 Dot M and L.

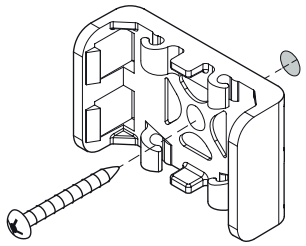
## Mounting Steps

NOTE: See Installation Guide for additional best practices.

1

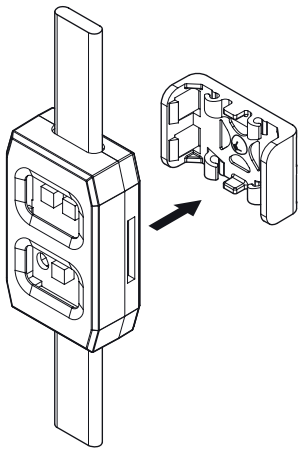


2

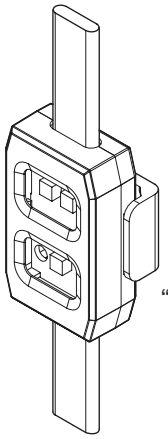


Screws are provided by others

3

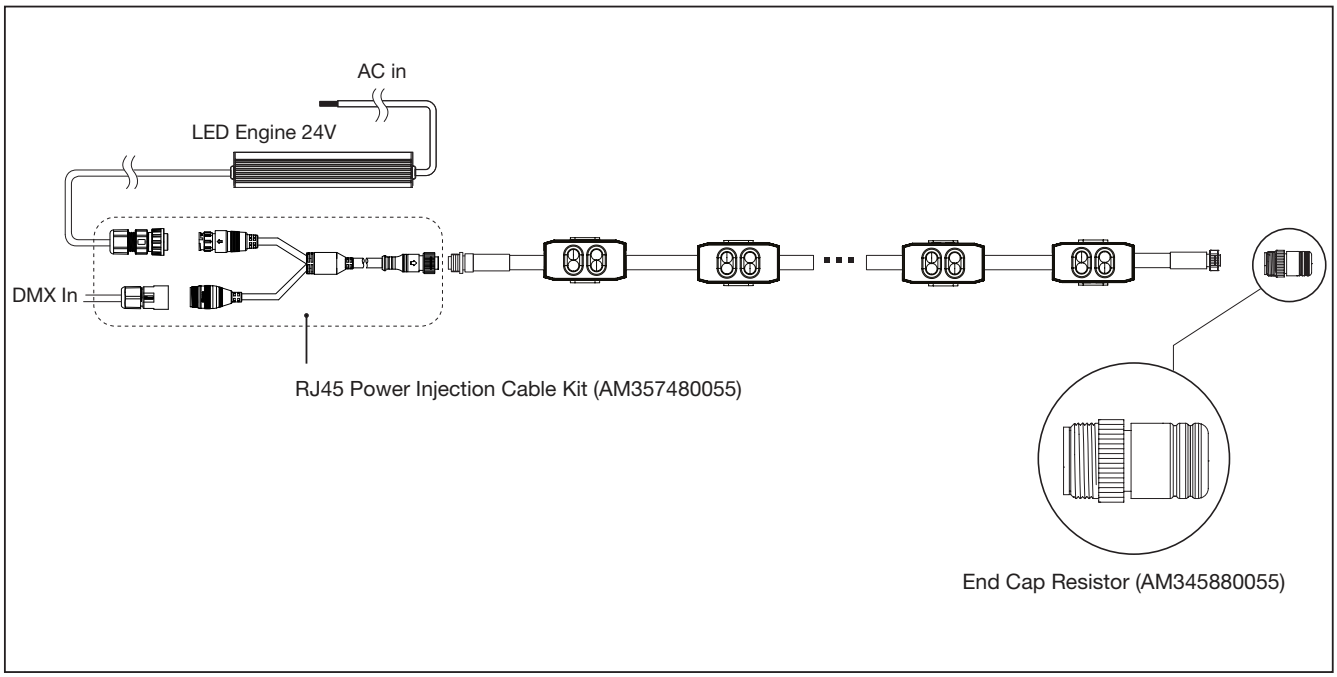


4

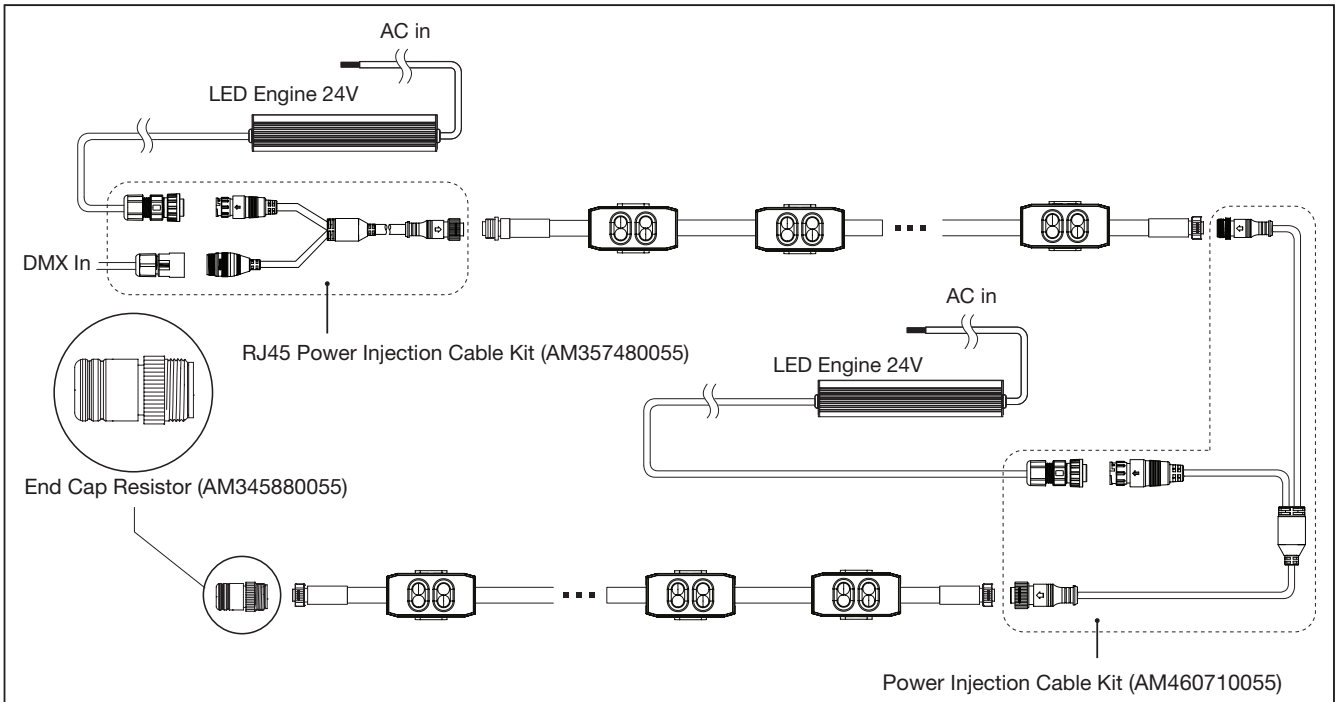


“Click”

## System diagram (Basic)

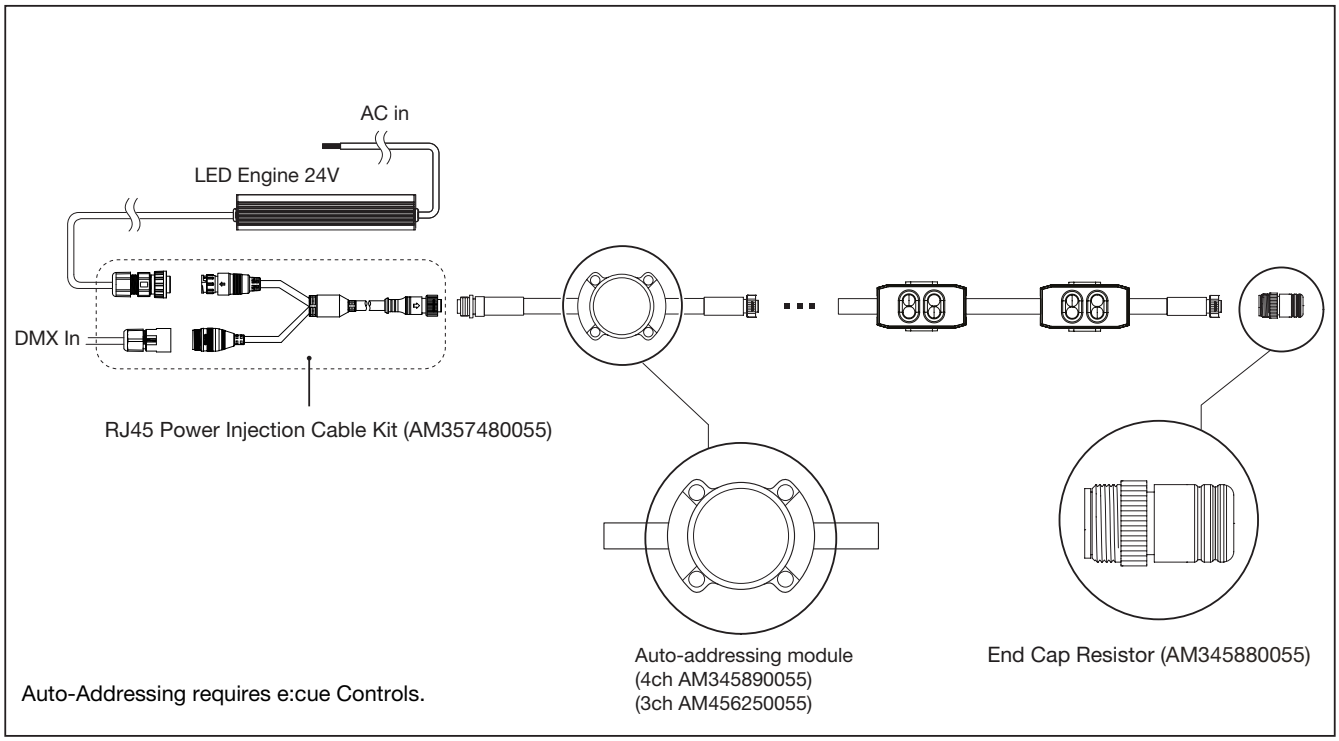



## System diagram (Power Injection)

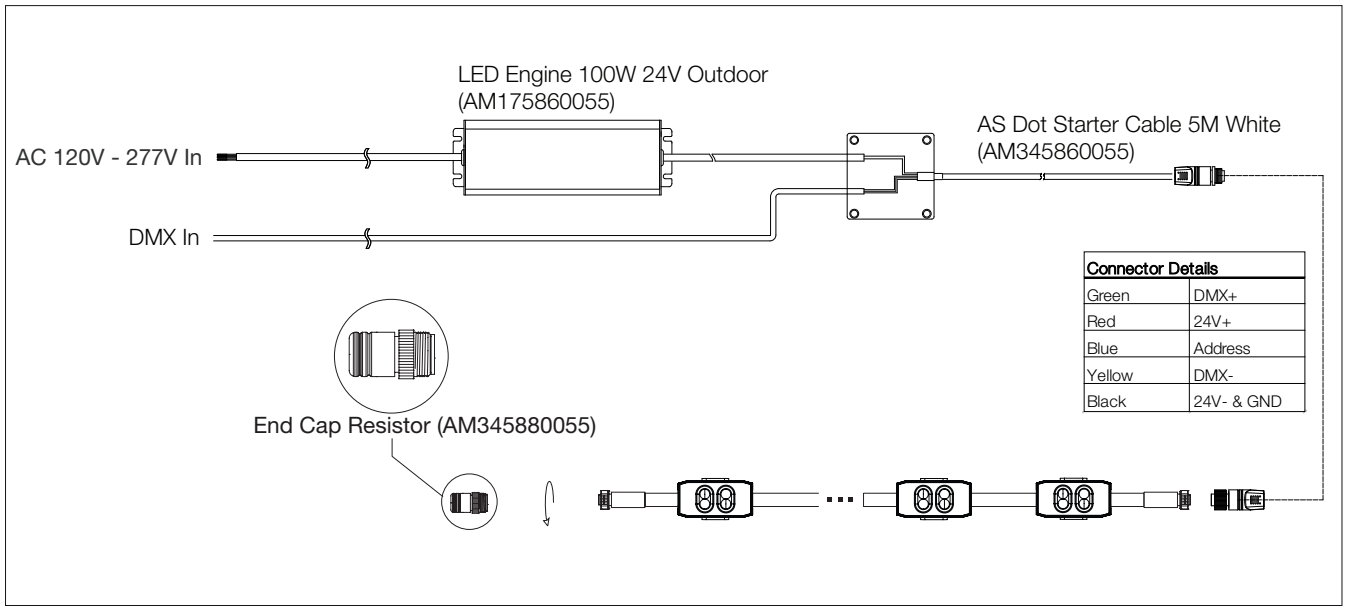



Power injection is required to extend the data run by interconnecting two ARCHISHAPE® 2.0 Dot S/M/L units.

## System diagram (Auto-addressing Module)




## System diagram (Junction Box)




| Connector Details | |
|---|---|
| Green | DMX+ |
| Red | 24V+ |
| Blue | Address |
| Yellow | DMX- |
| Black | 24V- & GND |

### Fixtures

| Model No. | Description | Item Code |
|---|---|---|
| DO.AE.2111010 | AS DOT S RGB CR 64PXL 150P 0.5M WT 24V ETL | AM456050055 |
| DO.AE.1111010 | AS DOT S RGBW CR 64PXL 150P 0.5M WT 24V ETL | AM456060055 |
| DO.AE.2111020 | AS DOT S RGB CR 64PXL 300P 0.5M WT 24V ETL | AM456070055 |
| DO.AE.1111020 | AS DOT S RGBW CR 64PXL 300P 0.5M WT 24V ETL | AM456080055 |
| DO.AE.2211010 | AS DOT S RGB DF 64PXL 150P 0.5M WT 24V ETL | AM456090055 |
| DO.AE.1211010 | AS DOT S RGBW DF 64PXL 150P 0.5M WT 24V ETL | AM456100055 |
| DO.AE.2211020 | AS DOT S RGB DF 64PXL 300P 0.5M WT 24V ETL | AM456110055 |
| DO.AE.1211020 | AS DOT S RGBW DF 64PXL 300P 0.5M WT 24V ETL | AM456120055 |

### Standard Accessories

| Model No. | Description | Item Code |
|---|---|---|
| N/A | AS DOT AUTO-ADDRESS MODULE 4CH WHITE | AM345890055 |
| N/A | AS DOT TX AUTO-ADDRESS MODULE 3CH WHITE | AM456250055 |
| N/A | AS DOT END CAP RESISTOR WHITE | AM345880055 |
| N/A | AS DOT POWER INJECTION CABLE WHITE | AM460710055 |
| N/A | AS DOT RJ45 POWER INJ CABLE KIT TX WHITE | AM357480055 |
| N/A | AS DOT STARTER CABLE 5M WHITE | AM345860055 |
| N/A | AS DOT S MOUNTING CLIP WHITE | AM357440055 |
| N/A | AS DOT INTERCONNECTION CABLE 1M WHITE | AM460720055 |

### Power Supply

| Model No. | Description | Item Code |
|---|---|---|
| N/A | LED ENGINE 100W 24V OUTDOOR | AM175860055 |

Our Brands

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