Our Brands

traxon e:cue

OSRAM

Project: _____

Type: _____

ARCHISHAPE® Media Tube RGB

ARCHISHAPE® Media Tube runs on 24V power supply, and fits into any wall, façade or media lighting application with tight installation requirements, while the wide beam angle output and 10-pixels-per-meter ensures a smooth illumination experience. This product greatly simplifies the lighting installation for building façades, media applications, bridges and more.

CE IP66

Product Specifications

	Direct View			Diffused View		
	300mm	500mm	1000mm	300mm	500mm	1000mm
Light Source	18 RGB	30 RGB	60 RGB	18 RGB	30 RGB	60 RGB
Color Range	16.7 Million additive RGB colors					
Beam Angle	95°			110°x170°		
Luminous Flux	105 lm	175 lm	350 lm	84 lm	140 lm	280 lm
Efficacy	25 lm/W			19 lm/W		
Pixel Pitch	100mm			100mm		
Pixel Configuration	6 RGB LEDs per pixel			6 RGB LEDs per pixel		
Number of Pixel	3 pixels	5 pixels	10 pixels	3 pixels	5 pixels	10 pixels
Housing	Extruded Aluminum					
Cover Lens	Clear Glass			PC		
Adjustment Options	Adjustable					
Dimensions (W x H)	23.5x27.2mm (without bracket)			23.5x37mm (without bracket)		
Dimensions (L)	300mm	500mm	1000mm	300mm	500mm	1000mm
Weight	0.35kg	0.52kg	0.85kg	0.35kg	0.52kg	0.85kg
Regulatory Listing & Safety Approval	CE					
Operating Temperature	–30°C to +50°C / –22°F to +122°F					
Storage Temperature	–40°C to +70°C / –40°F to +158°F					
Environment	Outdoor, IP66					
Humidity	10-90%, non-condensing					

Electrical Specifications

Operating Voltage	24V DC
Power Consumption	4.2W / 7W / 14W

System Specifications

Control	DMX512
Power Supply	LED Engine 24V Outdoor
Addressing Options	Manual Addressing with 3rd party addressing device

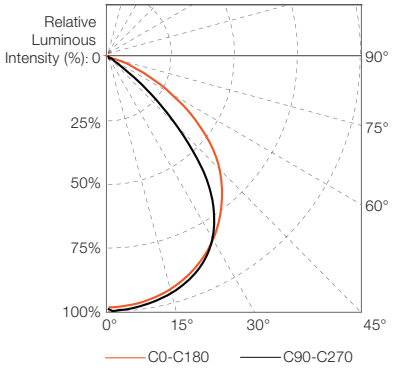
LED CHARACTERISTICS Because LEDs are semiconductor devices, their performances are subject to inherent variability commonly found in semiconductor industry. To improve consistency in performance across the same product, LED manufacturers "sort" LEDs into bins according to different preset parameters, 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.

This product contains a light source of energy efficiency class G to Regulation (EU) No 2019/2015.
Lumen measurement compiles with LM-79-08 standard.
Lumen maintenance is calculated based on LM-80 compliant measurement.

www.traxontechnologies.com

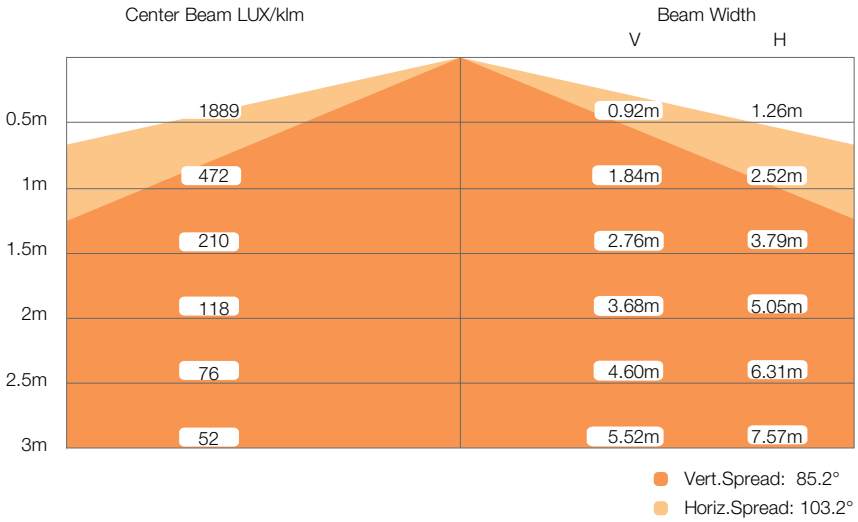
Candela Distribution (Direct View)



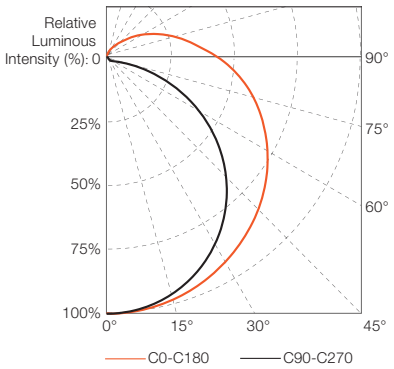
Light Output

Color	Luminous Flux (lm)
300	
RGB (full-on)	105 lm
Red	21 lm
Green	75 lm
Blue	15 lm
500	
RGB (full-on)	175 lm
Red	35 lm
Green	125 lm
Blue	25 lm
1000	
RGB (full-on)	350 lm
Red	70 lm
Green	250 lm
Blue	50 lm

Illuminance at a Distance



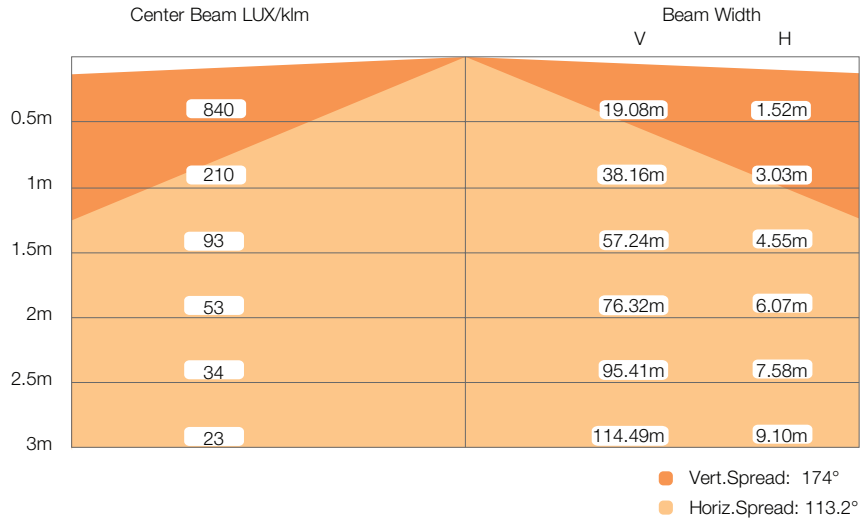
Candela Distribution (Diffused View)



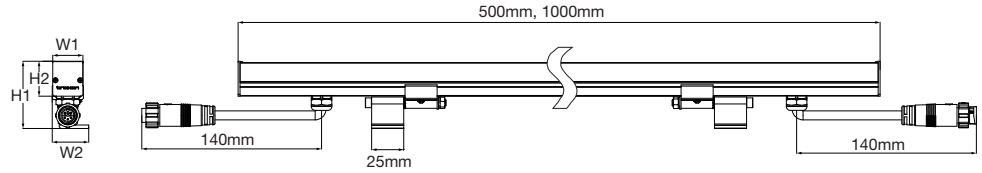
Light Output

Color	Luminous Flux (lm)
300	
RGB (full-on)	84 lm
Red	17.4 lm
Green	57 lm
Blue	12 lm
500	
RGB (full-on)	140 lm
Red	29 lm
Green	95 lm
Blue	29 lm
1000	
RGB (full-on)	280 lm
Red	58 lm
Green	190 lm
Blue	40 lm

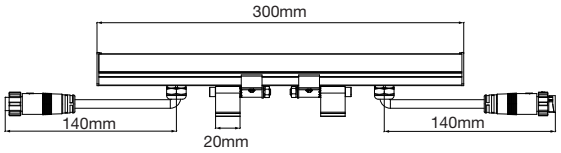
Illuminance at a Distance



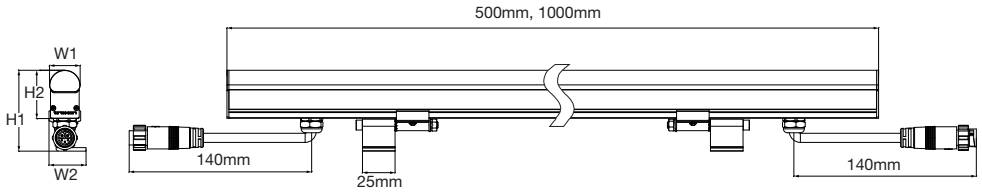
Fixture Dimensions (Direct View)



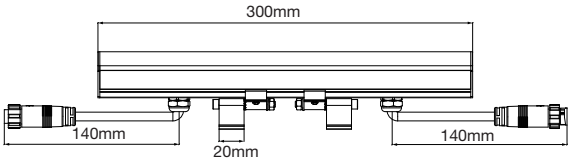
	W1	W2	H1	H2
1000mm	23.5mm	28.4mm	52.4mm	27.2mm
500mm	23.5mm	28.4mm	52.4mm	27.2mm
300mm	23.5mm	28.4mm	52.4mm	27.2mm



Fixture Dimensions (Diffused View)

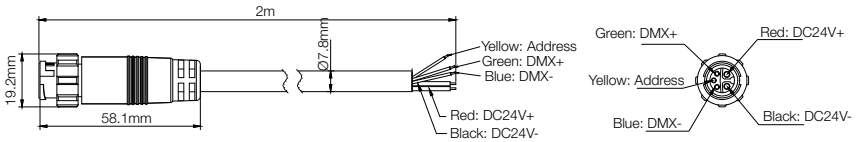


	W1	W2	H1	H2
1000mm	23.5mm	28.4mm	62mm	37mm
500mm	23.5mm	28.4mm	62mm	37mm
300mm	23.5mm	28.4mm	62mm	37mm

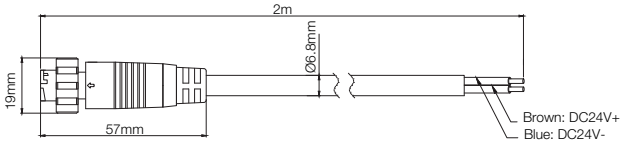


Accessories Dimensions

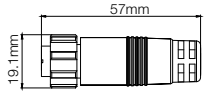
Start Cable, 5-wire, 2m (AM437890055)

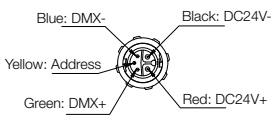


Starter Cable, 2-wire, 2m (AM437930055)



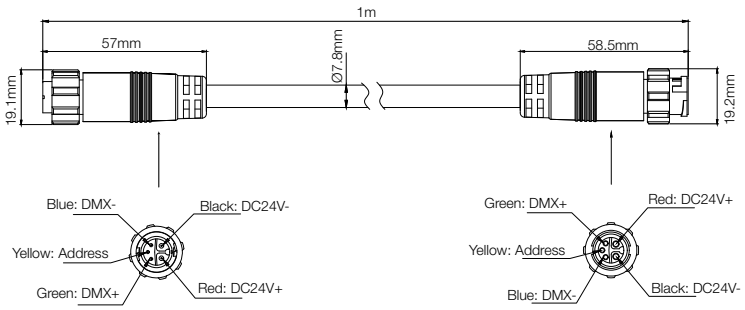
End Cap with 120Ω terminator (AM437910055)



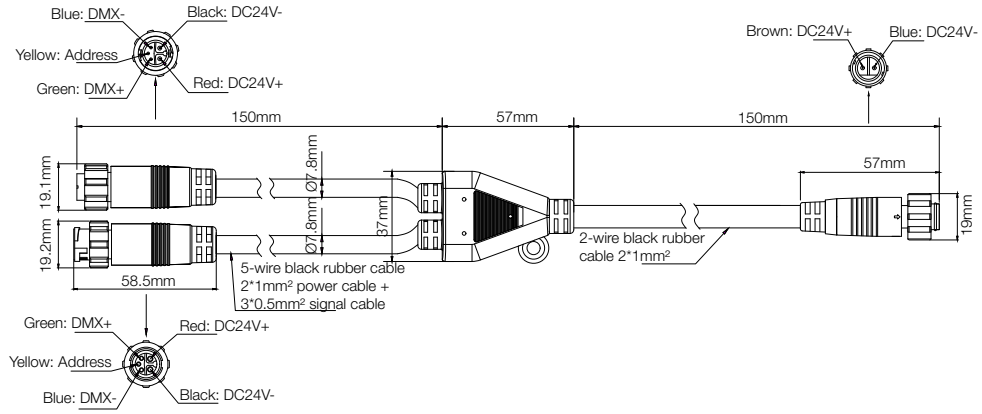


Accessories Dimensions

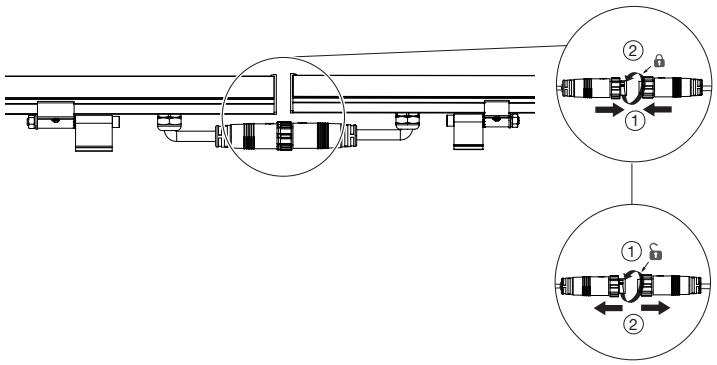
Inter cable, 5-wire,1m (AM437900055)



Y-cable, 0.15m (AM437920055)

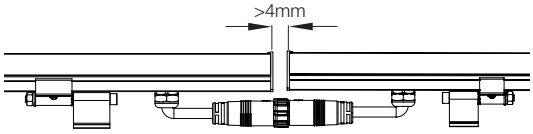


Cable Connection



Tube-to-Tube Clearance

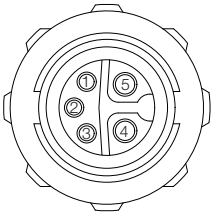
To maintain consistent LED pitch and to allow for thermal expansion for Tubes.



End Cap Seal on Last Tube

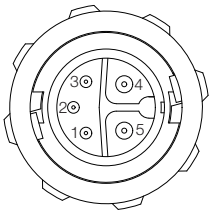
Connector Pin Assignment

Output



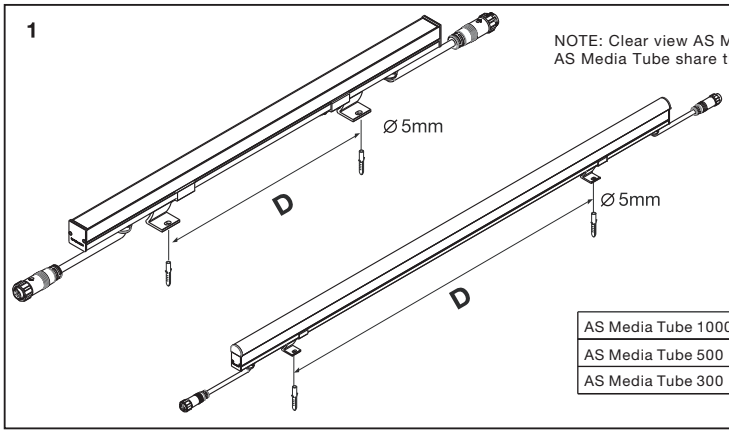
Wire#	Description	Color
1	DMX+	Green
2	Address	Yellow
3	DMX–	Blue
4	DC24V–	Black
5	DC24V+	Red

Input



Bracket Mounting

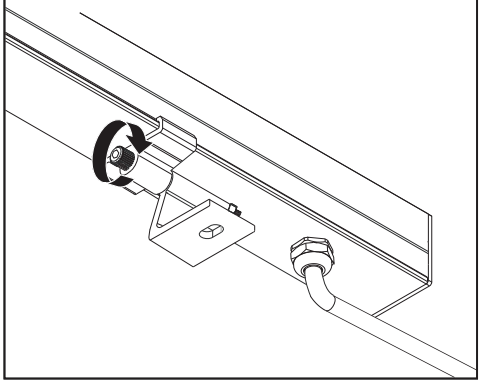
1



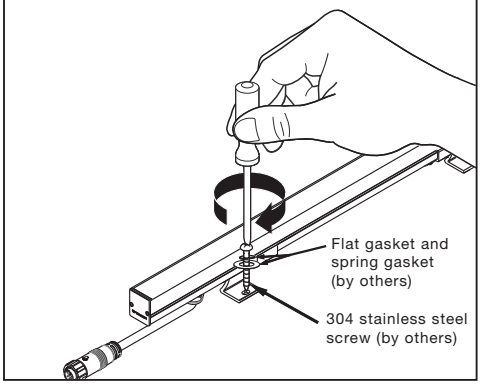
NOTE: Clear view AS Media Tube and diffused view AS Media Tube share the same mounting steps.

	D (mm)	
	Min	Max
AS Media Tube 1000	650	750
AS Media Tube 500	200	250
AS Media Tube 300	60	75

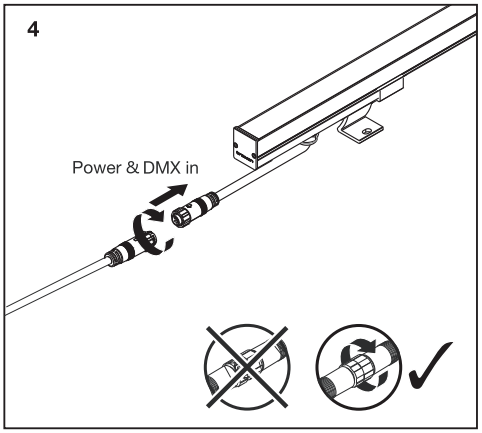
2



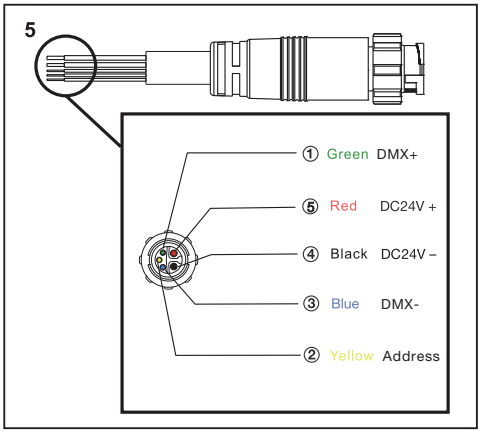
3



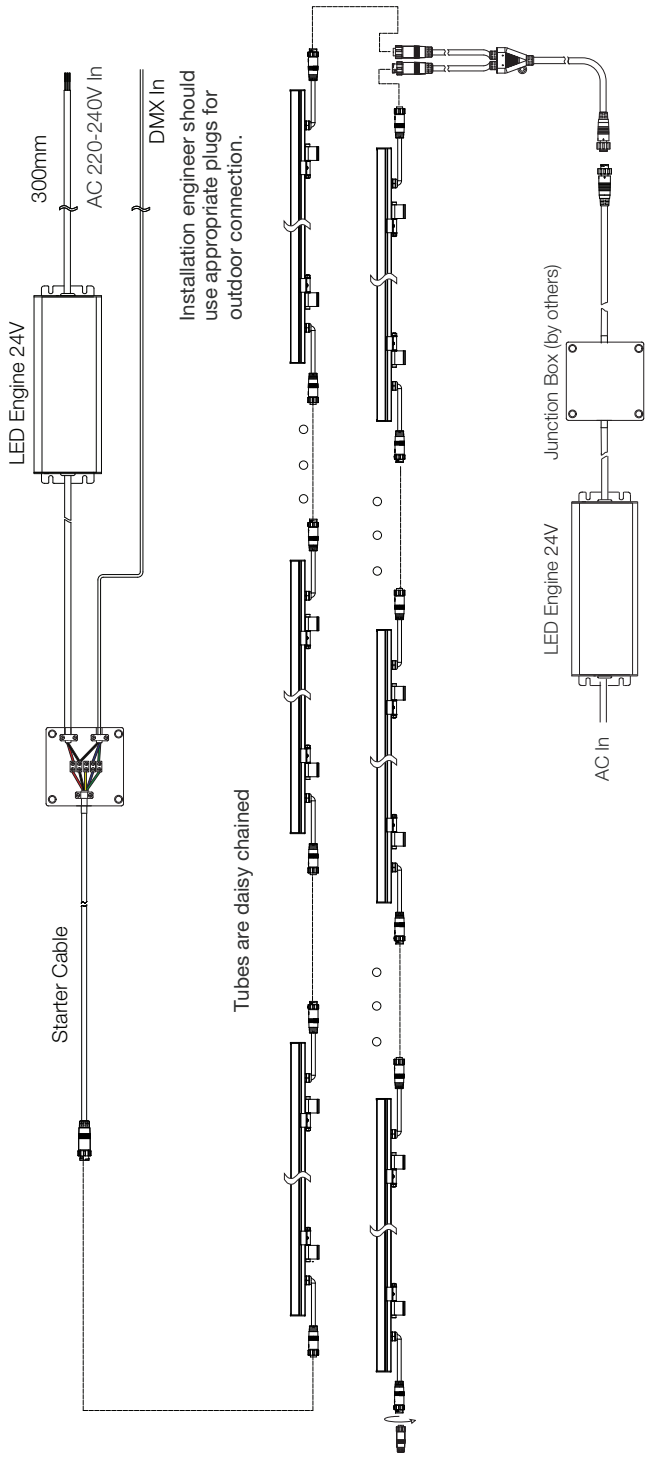
4



5



System Diagram



Pin#	Signal	Wire Size	Color	Connection
5	DC24V+	1.0mm²	Red	DC24V+
4	DC24V–	1.0mm²	Black	DC24V–and GND
1	DMX+	0.3mm²	Green	DMX+
3	DMX–	0.3mm²	Blue	DMX–
2	Address	0.3mm²	Yellow	Do not connect

Color Type	Max. Signal Daisy Chain	Max. Power Daisy Chain	PSU Power
RGBW	12m	8m	150W
RGB	17m	8m	150W
DW	25m	8m	150W

The Address wire only need to be connected during address configuration, it is not needed during operation.
This wiring diagram shows only typical connections. Actual wiring depends on LED Tube configuration and installation. Actual no. vary according to cable lengths and signal source. Please consult your local Traxon office for aid.

Fixtures

Model No.	Description	Item Code
TU.AT.3210100	AS MEDIA TUBE RGB 1000 10PXL DF R	AM435920055
TU.AT.2205100	AS MEDIA TUBE RGB 500 5PXL DF R	AM435930055
TU.AT.1203100	AS MEDIA TUBE RGB 300 3PXL DF R	AM435940055
TU.AT.3210000	AS MEDIA TUBE RGB 1000 10PXL CR	AM436010055
TU.AT.2205000	AS MEDIA TUBE RGB 500 5PXL CR	AM436020055
TU.AT.1203000	AS MEDIA TUBE RGB 300 3PXL CR	AM436030055

TX Connect

Model No.	Description	Item Code
TU.AC.1400100	AS MT STARTER CABLE, 5-WIRE, 2M	AM437890055
TU.AC.1400200	AS MT INTER CABLE, 5-WIRE, 1M	AM437900055
TU.AC.1400300	AS MT END CAP WITH 120Ω TERMINATOR	AM437910055
TU.AC.1400400	AS MT Y-CABLE , 0.15M	AM437920055
TU.AC.1401100	AS MT STARTER CABLE, 2-WIRE, 2M	AM437930055
TU.AC.1401300	AS MT INTER CABLE, 2-WIRE, 1M	AM437950055

TX Control

Model No.	Description	Item Code
N/A	LED ENGINE 100W 24V OUTDOOR	AM175860055
N/A	LED ENGINE 185W 24V OUTDOOR	AM175880055
N/A	LED ENGINE 320W 24V OUTDOOR	AM175900055

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