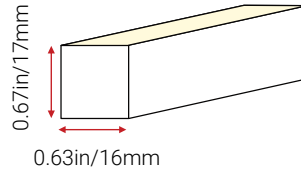
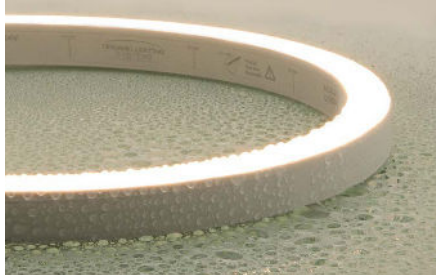


# Aqueon® Diffuse Mono

STANDARD & HIGH POWER 24V DC ● ● ● ● ● ● ● ●



Project

Date

## FEATURES

- IK10, cUL Listed, UL Listed 676, UL Listed 2108 - Submersible / IP68
- Horizontal or Vertical bending options
- End to end continuous illumination
- Up to 49.2ft(15m) continuous runs; Flood and vibration proof
- Cuttable every 2"(51mm) (White, Green, Blue) & 3.25"(83mm) (Red, Amber)
- 2200K, 2700K, 3000K, 3500K, 4000K, 5700K, Red, Green, Blue & Wildlife Amber
- Ultra low energy; 1.83W/ft (6W/m)
- 5.5"(140mm) minimum bending radius
- 5 year limited warranty; 60,000 hrs white, 100,000 hrs color LED lifetime
- Dimmable
- UV/IR protected Silicone material
- Ambient working temperature -40°F - 113°F

## ANTI-WICKING

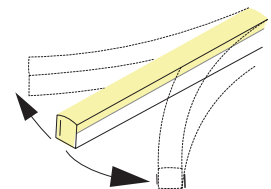
All connections include a ferrule on the power feed to prevent water wicking through the connection point.



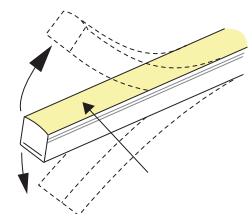
## PART NUMBER & SPECIFICATIONS

Part #	Color	CRI	lm/ft	lm/m	Max Run	W/ft	W/m
<b>Standard Aqueon® Diffuse Mono - Horizontal Bend</b>							
052204	2200K	>95	58	190	49.2ft	15m	1.83
052205	2700K	>95	72	235	49.2ft	15m	1.83
052236	3000K	>95	72	235	49.2ft	15m	1.83
052237	3500K	>95	73	240	49.2ft	15m	1.83
052238	4000K	>95	73	240	49.2ft	15m	1.83
052239	5700K	>95	73	240	49.2ft	15m	1.83
052210	Red	>95	33	110	49.2ft	15m	1.83
052211	Green	>95	69	225	49.2ft	15m	1.83
052212	Blue	>95	17	55	49.2ft	15m	1.83
052213	Amber	>95	33	110	49.2ft	15m	1.83
<b>Standard Aqueon® Diffuse Mono - Vertical Bend</b>							
052203	2200K	>95	64	225	49.2ft	15m	1.83
052229	2700K	>95	64	280	49.2ft	15m	1.83
052230	3000K	>95	64	280	49.2ft	15m	1.83
052231	3500K	>95	73.2	290	49.2ft	15m	1.83
052232	4000K	>95	73.2	290	49.2ft	15m	1.83
052233	5700K	>95	64	290	49.2ft	15m	1.83
052206	Red	>95	19.8	123	49.2ft	15m	1.83
052207	Green	>95	45.7	275	49.2ft	15m	1.83
052208	Blue	>95	7.6	60	49.2ft	15m	1.83
052209	Amber	>95	19.8	123	49.2ft	15m	1.83

## HORIZONTAL BENDING



## VERTICAL BENDING



Specifications may be modified or improved without notification



# Aqueon® Diffuse Mono Standard & High Power



## HIGH POWER

A new standard of flexible light; superior standards new materials, new methods, military grade components and advanced circuit design to create a flood proof; vibration proof seamless light. Our constant current design ensures to maintain a full illumination in continuous lengths up to 33ft(10m). Available in both vertical and horizontal bending. IP67 or IP68 submersible. Very High lumen output.

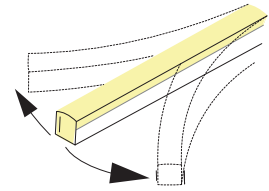
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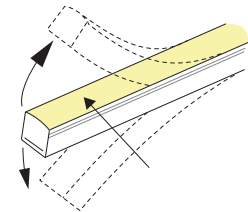
## PART NUMBER & SPECIFICATIONS

Part #	Color	CRI	lm/ft	lm/m	Max Run	W/ft	W/m
<b>High Power Aqueon® Diffuse Mono - Horizontal Bend</b>							
052204-15	2200K	>95	152	500	26.2ft	8m	4.57 15
052205-15	2700K	>95	183	600	26.2ft	8m	4.57 15
052236-15	3000K	>95	183	600	26.2ft	8m	4.57 15
052237-15	3500K	>95	213	700	26.2ft	8m	4.57 15
052238-15	4000K	>95	213	700	26.2ft	8m	4.57 15
052239-15	5700K	>95	213	700	26.2ft	8m	4.57 15
052210-8	Red	>95	50	165	26.2ft	8m	2.44 8
052211-12	Green	>95	137	450	26.2ft	8m	3.66 12
052212-12	Blue	>95	34	110	26.2ft	8m	3.66 12
052213-8	Amber	>95	50	165	26.2ft	8m	2.44 8
<b>High Power Aqueon® Diffuse Mono - Vertical Bend</b>							
052203-15	2200K	>95	183	600	26.2ft	8m	4.57 15
052229-15	2700K	>95	213	700	26.2ft	8m	4.57 15
052230-15	3000K	>95	213	700	26.2ft	8m	4.57 15
052231-15	3500K	>95	244	800	26.2ft	8m	4.57 15
052232-15	4000K	>95	244	800	26.2ft	8m	4.57 15
052233-15	5700K	>95	244	800	26.2ft	8m	4.57 15
052206-8	Red	>95	56	185	26.2ft	8m	2.44 8
052207-12	Green	>95	168	550	26.2ft	8m	3.66 12
052208-12	Blue	>95	37	120	26.2ft	8m	3.66 12
052209-8	Amber	>95	56	185	26.2ft	8m	2.44 8

### HORIZONTAL BENDING



### VERTICAL BENDING



Specifications may be modified or improved without notification



# Aqueon® Diffuse Mono Standard & High Power



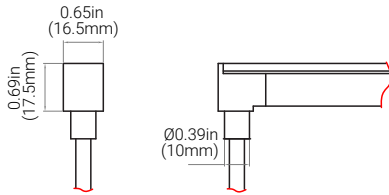
## CONNECTORS & ACCESSORIES

Factory assembled 2-wired Aqueon Mono IP68 submersible accessories include end caps, extension cords and connectors with customizable cord lengths. IP67 self assembly connectors are also available.

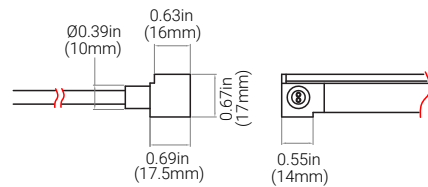
Project

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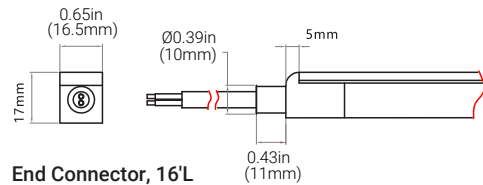
### FACTORY ASSEMBLED IP68 CONNECTORS



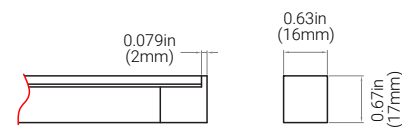
**Bottom Feed Connector, 16'L**  
#052250-CU16



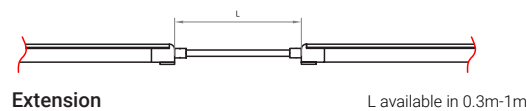
**Side Feed Connector, 16'L**  
#052263-CU16



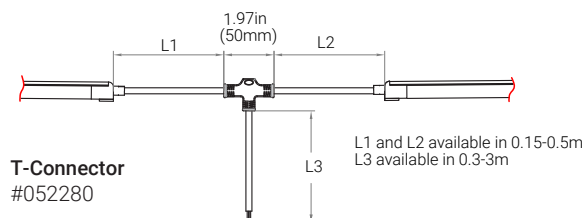
**End Connector, 16'L**  
#052278-CU16



**End Cap**  
#052286

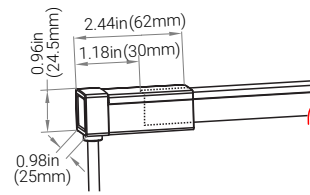


**Extension**  
#052279 L available in 0.3m-1m

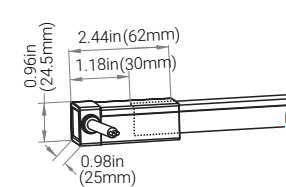


**T-Connector**  
#052280 L1 and L2 available in 0.15-0.5m  
L3 available in 0.3-3m

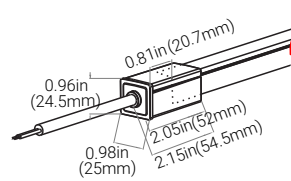
### FIELD ASSEMBLY SNAP IP67 CONNECTORS



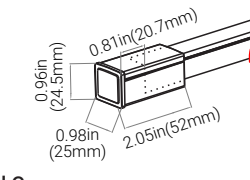
**Bottom Snap Connector, 16'L**  
#052250S-CU16



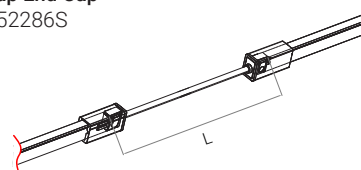
**Side Feed Snap Connector, 16'L**  
#052263S-CU16



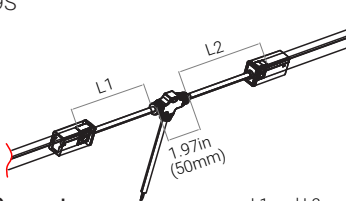
**End Snap Connector, 16'L**  
#052278S-CU16



**Snap End Cap**  
#052286S



**Snap Extension**  
#052279S L available in 0.3m, 1m, 3m



**Snap T-Connector**  
#052280S L1 and L2 available in 0.3m

Specifications may be modified or improved without notification



# Aqueon® Diffuse Mono Standard & High Power



## POWER SUPPLIES - 24V

Forward Phase, Reverse Phase, & 0-10V Dimming Drivers. Remote enclosures available.

Part #	Ingress	Voltage	Wattage	Dimensions (inches / mm)	Description
045001	IP67	100-305V	20W	7.6 x 1.18 x 0.79 / 193 x 30 x 20	Dimmable LED Driver
045002	IP67	100-305V	40W	5.83 x 1.57 x 0.87 / 148 x 40 x 22	Dimmable LED Driver
045003	IP67	120-277V	60W	6.3 x 2.24 x 1.5 / 160 x 57 x 38	Dimmable LED Driver
045004	IP67	120-277V	75W	6.3 x 2.24 x 1.5 / 160 x 57 x 38	Dimmable LED Driver
045005	IP67	120-277V	96W	7.6 x 2.24 x 1.5 / 193 x 57 x 38	Dimmable LED Driver
045006	IP67	120-277V	200W	10.1 x 3.03 x 1.8 / 257 x 77 x 46	Dimmable LED Driver
045007	IP67	120-277V	300W	11.9 x 3.03 x 1.8 / 302 x 77 x 46	Dimmable LED Driver

## ENCLOSURES

Part #	Ingress	Dimensions (inches / mm)	Description
045008	IP67	9.4 x 2.6 x 1.9 / 239 x 66 x 48	20W Enclosure
045009	IP67	11.02 x 4.05 x 2.2 / 280 x 103 x 56	40W Enclosure
045010	IP67	11.02 x 4.05 x 2.2 / 280 x 103 x 56	60W Enclosure
045011	IP67	11.02 x 4.05 x 2.2 / 280 x 103 x 56	75W Enclosure
045012	IP67	11.02 x 4.05 x 2.2 / 280 x 103 x 56	96W Enclosure
045013	IP67	16.7 x 9.8 x 2.3 / 424 x 249 x 58	200W Enclosure
045014	IP67	16.7 x 9.8 x 2.3 / 424 x 249 x 58	300W Enclosure
PC-JBOX	IP67	4.25 x 1.63 x 1.25 / 108 x 41 x 32	Waterproof J-Box

## DMX CONTROLLER

Part #	Description
011343	100W Digital Controller
011344	180W Digital Controller
011345	720W Digital Controller
011341	Digital Controller & Power Supply Combination
011410	Nicolaude DE3 DMX 512 Controller
011403	Nicolaude DINA-DR1 DMX 512 Controller
050203	LT-200 SPI Controller - For Pixel
050205	DMX512 SPI Converter Decoder - For Pixel

## MOUNTINGS & EXTRUSIONS

Mounting Channels to Match any Installation

### Aluminum Profile



- High Quality Aluminum
- Lightweight
- Cost Effective
- Warp/corrosion resistant

1.38in(35mm) L - #053001  
39.37in(1000mm) L - #053000

### Flanged Aluminum Profile



- High Quality Aluminum
- Lightweight
- Cost Effective
- Flange for Recessed Installation

1.38in(35mm) L - #053003  
39.37in(1000mm) L - #05302

### Flanged Internal Serrated Aluminum Profile



- Lightweight
- Easy to Install & Dismantle
- Continuous & Strong Gripping
- Flange for Recessed Installation

0.79in(20mm) L - #053011  
39.37in(1000mm) L - #053010

### Internal Serrated Aluminum Profile



- Continuous & Strong Gripping
- Lightweight
- Easy to Install & Dismantle
- For Suspended Installations

0.79in(20mm) L - #053009  
39.37in(1000mm) L - #053008

### Bendable Serrated Aluminum Profile



- High Quality Aluminum
- Easy to Install & Dismantle
- Continuous & Strong Gripping
- Memory Retaining
- Perfect for Curved Installations

19.68in(500mm) L - #053013  
39.37in(1000mm) L - #053012

### Thickened Plastic Profile



- Plastic Profile 0.12in(3mm) thick
- Lightweight
- Cost Effective
- Rust & Corrosion Resistant

1.38in(35mm) L - #053005  
39.37in(1000mm) L - #053004

Project

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Date

### 20W -60W Dimmable Driver



### 75W -300W Dimmable Driver



### Digital Controller (100W, 180W, 720W)



### Nicolaude DE3 DMX 512 Controller



Specifications may be modified or improved without notification



## MOUNTINGS & EXTRUSIONS (CONTINUED)

### Raceway Aluminum Profile



- Surface-mounted
- Serrated Aluminum Profile

39.37in(1000mm) L  
#053021

### Suspended Raceway Aluminum Profile



- Suspended
- Serrated Aluminum Profile

39.37in(1000mm) L  
#053022

### Raceway End Cap



#053023

### Raceway Splice Connector



#053024

### Stainless Steel Clip



- High Quality Stainless Steel
- Lightweight
- Cost Effective

1.38in(35mm) L  
#053020

### Silicone 3D Bend Profile White



- Silicone
- Bendable Anole Profile

39.37in(1000mm) L  
#053026-WH

### Silicone 3D Bend Profile Black



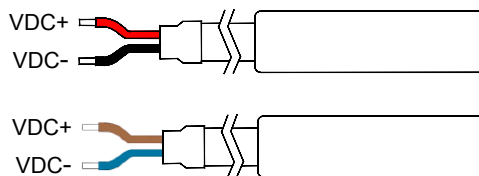
- Silicone
- Bendable Anole Profile

39.37in(1000mm) L  
#053026-BL

## CABLE REQUIREMENT

The Aqueon® LED strips need a minimum voltage at the beginning of the LED strip to function according to the specifications. The table below gives an indication of the maximum cable length based on the cable thickness. The standard starter cable is (18 AWG), see table below for max cable lengths.

In case the required length is longer than the length mentioned in this cable, it is recommended to cut the starter cable down to 1ft (0.3m) and splice a larger gauge cable. Please contact your distributor for a detailed cable calculation.



Cable X Information	LED Strip (6w/m)	Max. Cable Length	
		24V	
18 AWG x 2 *Standard	3.28ft / 1m	632.1ft / 192.7m	
	16.4ft / 5m	124.2ft / 37.8m	
	32.8ft / 10m	62.4ft / 19.0m	
	49.2ft / 15m	41.8ft / 12.7m	
16 AWG x 2	3.28ft / 1m	1030ft / 314m	
	16.4ft / 5m	202.3ft / 61.7m	
	32.8ft / 10m	101.6ft / 31.0m	
	49.2ft / 15m	68.1ft / 20.7m	
14 AWG x 2	3.28ft / 1m	1615.3ft / 492.3m	
	16.4ft / 5m	317.3ft / 96.7m	
	32.8ft / 10m	159.4ft / 48.6m	
	49.2ft / 15m	106.7ft / 32.5m	

Cable X Information	LED Strip (15w/m)	Max. Cable Length	
		24V	
18 AWG x 2 *Standard	3.28ft / 1m	68ft / 22.4m	
	9.8ft / 3m	75ft / 22.5m	
	16.4ft / 5m	45ft / 13.5m	
	26.2ft / 8m	28ft / 8.5m	
16 AWG x 2	3.28ft / 1m	366ft / 110.5m	
	9.8ft / 3m	122ft / 36.8m	
	16.4ft / 5m	73ft / 22m	
	26.2ft / 8m	45ft / 13.8m	
14 AWG x 2	3.28ft / 1m	568ft / 173m	
	9.8ft / 3m	189ft / 57m	
	16.4ft / 5m	113ft / 34.7m	
	26.2ft / 8m	71ft / 21.7m	

