## RGBW Wet Location LED Flexible Linear System

RGBW AQUAFLEX is a premium member of the AQUAFLEX family. This model comes equipped with a warm white 3000K LED and a 3 in 1 RGB LED. Compatible with DMX512 and capable of producing 16.7 million color variations and instantly transitioning to white light. RGBW AQUAFLEX is housed in a special grade silicone sleeve, field cuttable every 6 1/2in, and has available mounting clips and end caps for simple installation.
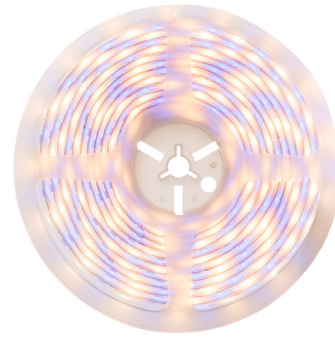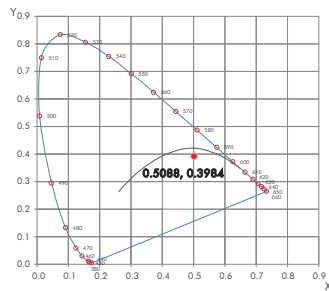
OUTPUT

Delivered Lumens	206.68 lm/ft
CCT & SDMC	4942K - Full RGBW
Chromaticity Coordinates	x: 0.5088 y: 0.3984 u: 0.3009 v: 0.3535
Color Bin Tolerance	N/A
Efficacy (lm/W)	54.10
CRI	N/A
Lumen Maintenance	70,000 Hours L70 @ 25°C 90,000 Hours L50 @ 25°C 50,000 Hours L70 @ 50°C 70,000 Hours L50 @ 50°C
Testing Data	Light Data LM-79-08 & LM-80-08

ELECTRICAL

Input Voltage	24V DC
Power Consumption	3.82W per ft (0.32A)
Power Factor	≤ 1
Control	DMX512

PHYSICAL

Applications	IP67 Wet Locations, Cabinet, Cove, Display, Niches, Perimeter Lighting
Dimensions	Length 196 3/4in (5m) Width 5/8in (15mm) Height 11/64in (5mm)
LED Spacing	7/16in (11mm)
Beam Distribution	110°
Cutting Distance	6 1/2in (166mm)
Weight	11.2 lbs (317.5g) Per Reel
Construction	Constant Voltage Design Protects LEDs and Prolongs Life. White FPCB Inside a Silicone Sleeve
Thermal Management	N/A
Optics	N/A
Fixture Connections	Solder joints
Operating Temperature	-22°F ~ 122°F (-30°C ~ 50°C)
Storage Temperature	-40°F ~ 176°F (-40°C ~ 80°C)
Humidity	0-95% Non Condensing

DIMENSIONS

196 3/4in (5m)

5/8in (15mm)

11/64in (5mm)

CIE 1931 CHROMATICITY DIAGRAM

0.5088, 0.3984

LUMINANCE DATA
(cd/sq.m)

Angle in Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4579	4708	4692
55	4587	4767	4767
65	4575	4656	4656
75	4155	4288	4243
85	3544	3675	3544
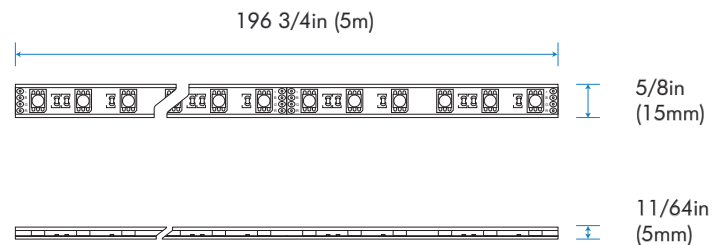
MODA TECHNOLOGY

moda**PHOSPHOR**™

moda **ZERO BIN**™

moda **HIGH CRI**™

STANDARDS & CERTIFICATIONS

cULus   CE   RoHS ✓

LM 79   LM 80   5 YEAR WARRANTY

Project Name:

Notes:

ILLUMINANCE AT A DISTANCE

	Center Beam FC	Beam Width	
2.0 ft	19.13 fc	7.0 ft	7.2 ft
4.0 ft	4.78 fc	13.9 ft	14.5 ft
6.0 ft	2.39 fc	20.9 ft	21.7 ft
8.0 ft	1.19 fc	27.9 ft	28.9 ft
10.0 ft	0.59 fc	34.8 ft	36.1 ft
12.0 ft	0.29 fc	41.8 ft	43.4 ft

Vert. Spread: 120.3°
Horiz. Spread: 122.1°
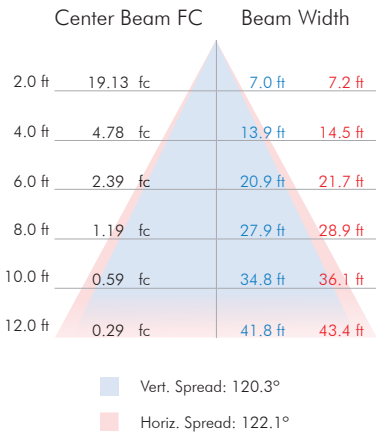
POLAR CANDELA DISTRIBUTION

- 0° H
- 90° H
- 22.50° H
- 45° H
- 67.50° H
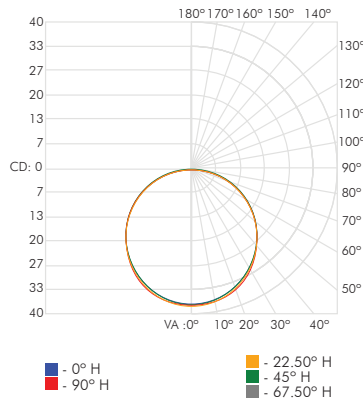
ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt
0-30	51.67	N.A.	25.00%
0-40	85.57	N.A.	41.40%
0-60	157.08	N.A.	76.00%
60-90	44.64	N.A.	21.60%
0-90	206.68	N.A.	100.00%
90-180	0.00	N.A.	0.00%
0-180	206.68	N.A.	100.00%

LUMENS PER ZONE

Zone	Lumens	% Lamp	% Fixt
0-10	6.24	N.A.	3.02%
10-20	17.92	N.A.	8.67%
20-30	27.47	N.A.	13.29%
30-40	34.04	N.A.	16.47%
40-50	36.66	N.A.	17.74%
50-60	34.87	N.A.	16.87%
60-70	27.94	N.A.	13.52%
70-80	16.62	N.A.	8.04%
80-90	51.05	N.A.	2.47%
90-100	0.00	N.A.	0.00%

WIRING

Connection in Series

100 - 277V AC

24v DRIVER

LD180

Maximum Continuous Run configuration wired in series not to exceed 196 3/4in in overall length

Connection in Parallel

100 - 277V AC

24v DRIVER

LD180

Maximum Load configuration wired in parallel not to exceed 35ft total overall length
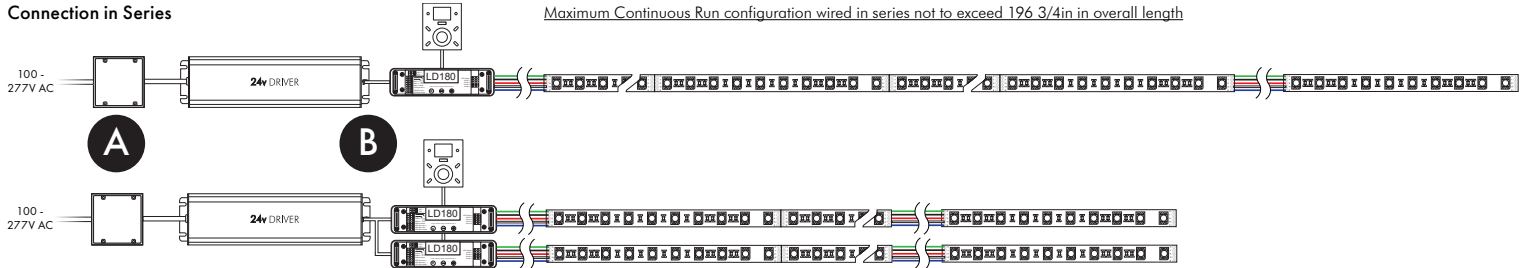
Parallel Run DMX Wiring

Multiple connections in parallel can be made provided that each section does not exceed the Max Run Length of the product and does not exceed Max Load on driver.
Example: 3 parallel connections x 156in lengths ≤ 35 total feet for Max Load determination.

A

100-277V AC

24V DC Driver

B

DMX Controller (Shielded RS-485)

24V Driver

VDC +
VDC -
DMX in +
DMX in -
DMX in shield
LED Sync thru +
LED Sync thru -
LED Sync shield

LD180

12-28V / 6A Direct voltage controlled LED Driver

M — +

LED Supply +
Group 1 -
Group 2 -
Group 3 -
Group 4 -

Moda RGBW Flex
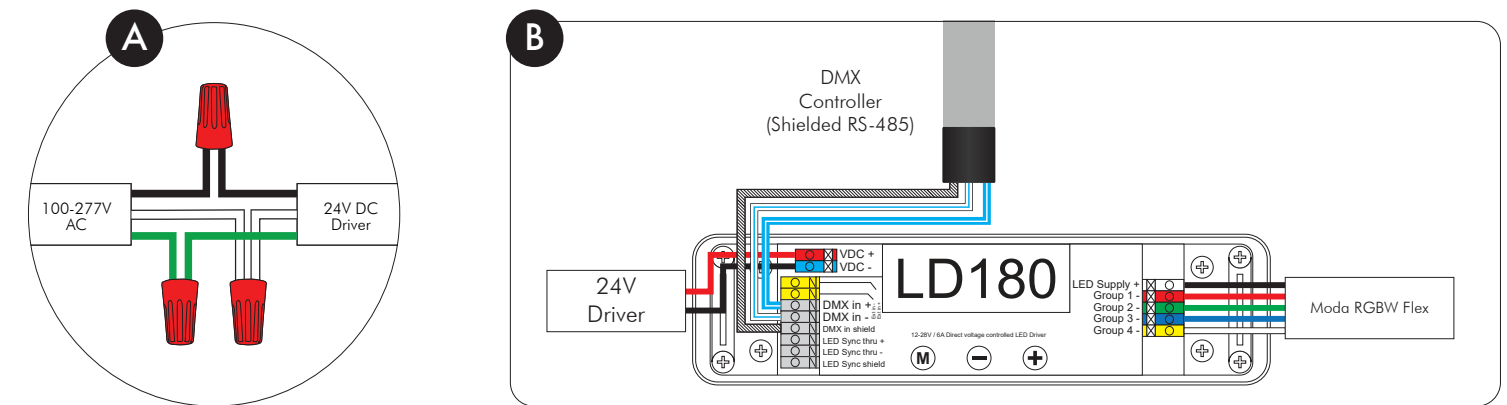
WIRING LEGEND

24V Driver Primary Side
- Live 100-277V AC
- Neutral AC
- Ground AC

24V Driver Secondary Side
- DC Power Positive
- DC Power Negative

DMX CONTROLLER
- Data Positive
- Data Negative
- DMX Shield

Leader Cable
- 24V Positive
- Red
- Green
- Blue
- White

MAX LOAD

150W Driver   35ft (10.7m)

MAX CONTINUOUS RUN

196 3/4in (5m)

moda LIGHT®
S P E C I F I C A T I O N

FIXTURE	ORDERING SKU
Aquaflex RGBW 3000K- IP67 Wet Location 16.4FT	RGBWW-AQF

POWER	ORDERING SKU
24V DC Driver - 100-277V AC Input - Non-Dimmable - 150W - IP20	MP17

ACCESSORIES	ORDERING SKU
Mounting Clip	MRTA66
End Cap	MRTA67
3M Super Silicone Sealant 3 oz	MRTA62
3M Super Silicone Sealant 1/10 Gal	MRTA62-XL

CONTROLS	DESCRIPTION	PART NUMBER	ORDERING SKU
Kandi Touch	DMX512 Wall Mounted Touch Panel Controller with Color Display	KND-TCH-B (Black) KND-TCH-W (White)	250-0040 250-0041
MODA Touch	DMX512 Wall Mounted Touch Panel Controller	MTCH-S1-B (Black) MTCH-S1-W (White)	MTCH-S1-B MTCH-S1-W

CONTROL ACCESSORIES	DESCRIPTION	PART NUMBER	ORDERING SKU
Linear Drive 180	180W 4 Channel Constant Voltage DMX Interface	N/A	LD180
Shielded Cable 500FT	RS-485 Cable for DMX, 24 AWG stranded TC conductors, polyethylene insulation	SW-L-19827-1-500FT	250-0251
Shielded Cable 1000FT	RS-485 Cable for DMX, 24 AWG stranded TC conductors, polyethylene insulation	SW-L-19827-1-1000FT	250-0252