modaLIGHT®
SPECIFICATION

Dimmable Wet Location LED Linear Flex System

AQUAFLEX provides stable, consistent, energy efficient, ultra-flexible solid state lighting with a super low profile. Field cuttable at designated cutting points. AQUAFLEX is housed in a high quality silicone sleeve and has available mounting clips and end caps for simple installation.

OUTPUT

Delivered Lumens	51.69 lm/ft
CCT & SDMC	N/A
Chromaticity Coordinates	x: 0.1694 y: 0.7163 u: 0.0602 v: 0.5727
Color Bin Tolerance	+/- 3 %
Efficacy (lm/W)	39.16
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	12V DC
Power Consumption	1.32W per ft (0.11A)
Power Factor	≤ 1
Control	0-10V, ELV (By others), & MLV (By others)

LUMINANCE DATA
(cd/sq.m)

Angle in Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	5973	4139	3708
55	5669	3507	3033
65	4902	2564	2133
75	3265	1398	1107
85	2430	609	467

Project Name:

Notes:

PHYSICAL

Applications	IP67 Wet Locations, Cabinet, Cove, Display, Niches, Perimeter Lighting
Dimensions	Length 236 1/4in (6m)
Width 1/2in (13mm)
Height 3/16in (5mm)
LED Spacing	9/16in (14mm)
Cutting Distance	2in (50mm)
Weight	14.4oz (408.2g) 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

236 1/4in (6m)

1/2in (13mm)

3/16in (5mm)
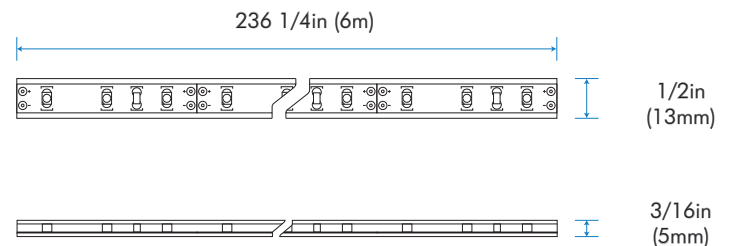
MODA TECHNOLOGY

moda**PHOSPHOR™**

moda **ZERO BIN™**

moda **HIGH CRI™**

STANDARDS & CERTIFICATIONS

c(UL)us   CE   RoHS ✓

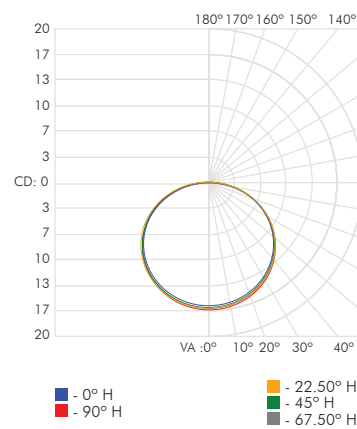LM 79   LM 80   5 YEAR WARRANTY

ILLUMINANCE AT A DISTANCE

	Center Beam FC		Beam Width	
2.0 ft	4.28	fc	6.1 ft	6.6 ft
4.0 ft	1.07	fc	12.2 ft	13.2 ft
6.0 ft	0.48	fc	18.3 ft	19.8 ft
8.0 ft	0.27	fc	24.4 ft	26.4 ft
10.0 ft	0.17	fc	30.5 ft	33.0 ft
12.0 ft	0.12	fc	36.6 ft	39.6 ft

Vert. Spread: 113.4°
Horiz. Spread: 114.4°
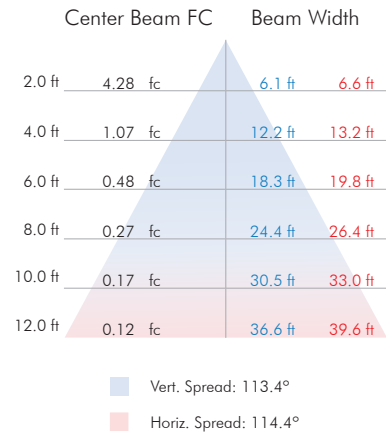
POLAR CANDELA DISTRIBUTION

- 0° H
- 90° H
- 22.50° H
- 45° H
- 67.50° H

ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt
0-30	13.43	N.A.	26.00%
0-40	22.21	N.A.	43.00%
0-60	39.80	N.A.	77.00%
60-90	8.98	N.A.	17.40%
0-90	49.87	N.A.	96.50%
90-180	1.82	N.A.	3.50%
0-180	51.69	N.A.	100.00%

LUMENS PER ZONE

Zone	Lumens	% Lamp	% Fixt
0-10	1.62	N.A.	3.02%
10-20	4.66	N.A.	8.67%
20-30	7.15	N.A.	13.29%
30-40	8.78	N.A.	16.47%
40-50	9.25	N.A.	17.74%
50-60	8.33	N.A.	16.87%
60-70	5.98	N.A.	13.52%
70-80	3.00	N.A.	8.04%
80-90	1.09	N.A.	2.47%
90-100	0.69	N.A.	0.00%

WIRING

UL /cUL Dimming and Non-dimming

Connection in Series

100-277V AC

OPTIONAL DIMMER A B

100-277V AC

DRIVER

C

Connection in Parallel

Maximum Continuous Run configuration wired in series not to exceed 236 1/4in in overall length

Maximum Load configuration wired in parallel not to exceed maximum overall length based on selected driver wattage rating total overall length
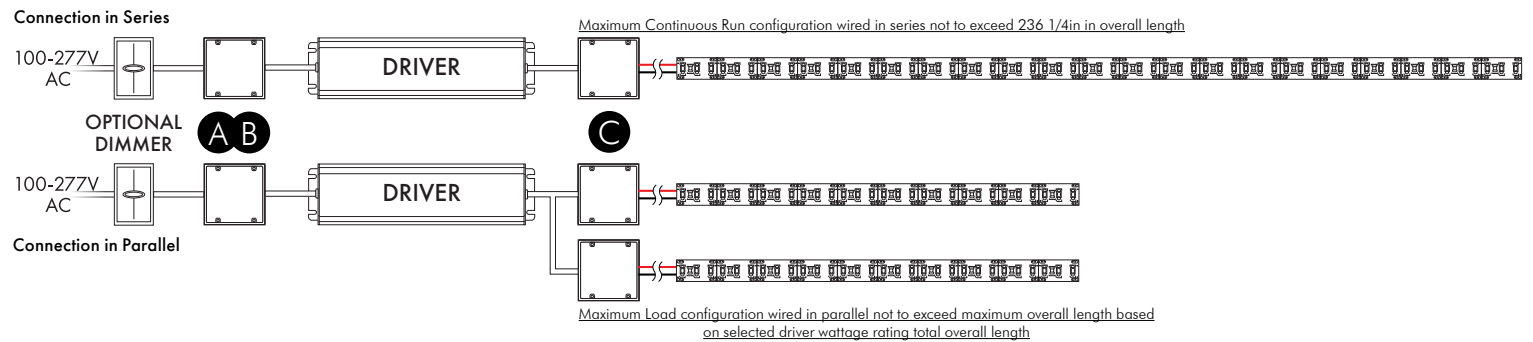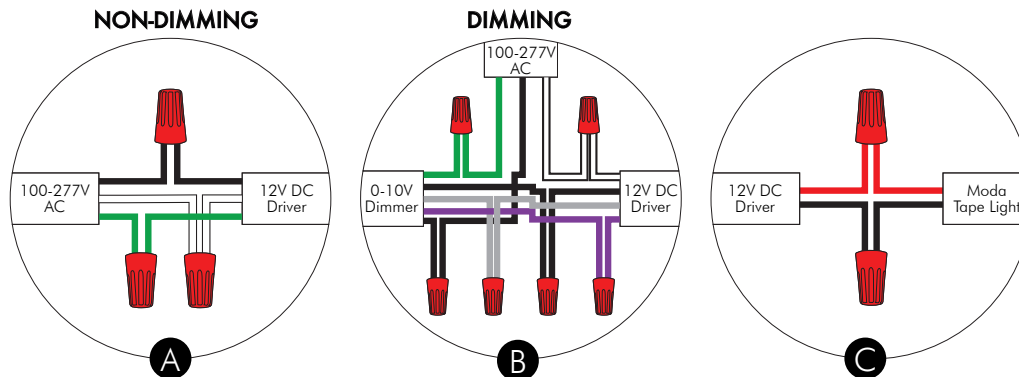

Parallel Run Wiring

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: 5 parallel connections x 236 1/4in lengths ≤ 109 total feet for Max Load determination equipped with 150W driver.

NON-DIMMING | DIMMING

A

100-277V AC | 12V DC Driver

B

0-10V Dimmer | 100-277V AC | 12V DC Driver

C

12V DC Driver | Moda Tape Light

WIRING LEGEND

12V Driver Primary Side

Black	Live 100-277V AC	
White	Neutral AC	
Green	Ground AC	

12V Driver Secondary Side

Red	DC Power Positive	
Black	DC Power Negative	
Purple	0-10V Data Positive	
Negative	0-10V Data Negative	

MAX CONTINUOUS RUN

236 1/4in (6m)

MAX LOAD

60W Driver	41ft
100W Driver	68ft
132W Driver	90ft
150W Driver	102ft

FIXTURE	ORDERING SKU
Aquaflex - IP67 Wet Location EZ Connect Self Adhesive Linear flex 12V DC 19.68FT Reel Green	AQF-G

POWER	ORDERING SKU
12V DC Driver - 100-277V AC Input - Non-Dimmable - 132W - IP20	MP16
12V DC Driver - 347V AC Input - 0-10V Dimmable - 60W - IP20	MP05
12V DC Driver - 100-277V AC Input - 0-10V Dimmable - 60W - IP20	MP18N
12V DC Driver - 100-277V AC Input - 0-10V Dimmable - 100W - IP20	MP86
12V DC Driver - 100-277V AC Input - 0-10V Dimmable - 150W - IP20	MP88

ACCESSORIES	ORDERING SKU
Mounting Clips	MRTA61
End Cap	MRTA63
3M Super Silicone Sealant 3 oz	MRTA62
3M Super Silicone Sealant 1/10 Gal	MRTA62-XL