

**Dimmable Wet Location LED Linear Flex System.**  
AQUAFLEX HCRI provides stable, consistent, energy efficient, ultra flexible solid state lighting. With a super lowprofile it is able to meet any custom length at the designated cutting points. AQUAFLEX HCRI is housed in a high quality silicone sleeve and has available mounting clips and end caps for simple installation. See MODA Metal<sup>®</sup> for extrusion options.



## OUTPUT

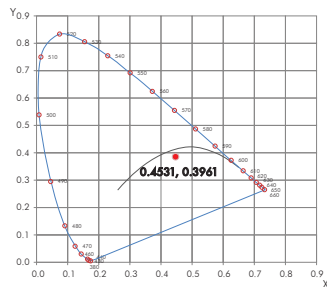
|                          |  |
|--------------------------|--|
| Delivered Lumens         | 117.54 lm / ft   |
| CCT & SDMC               | 2700K - 2 Step MacAdam Ellipse   |
| Chromaticity Coordinates | x: 0.4531 y: 0.3961 u: 0.2647 v: 0.3471  |
| Color Bin Tolerance      | + 3% / -3%   |
| Efficacy (lm/w)          | 83.95  |
| CRI                      | 91   |
| Lumen Maintenance        | 70,000 Hours L70 @ 25°C<br>90,000 Hours L50 @ 25°C<br>50,000 Hours L70 @ 50°C<br>70,000 Hours L50 @ 50°C |
| Testing Data             | Light Data LM-79-08 & LM-80-08   |

## ELECTRICAL

|                   |   |
|-------------------|---|
| Input Voltage     | 12V DC                                  |
| Power Consumption | 1.4W per ft (0.01A)*                    |
| Power Factor      | ≤ 1                                     |
| Dimming           | 100 - 277v 0-10v & Magnetic Low Voltage |
| Emergency         | N/A                                     |

\*Varies based on run and driver

## CIE 1931 CHROMATICITY DIAGRAM



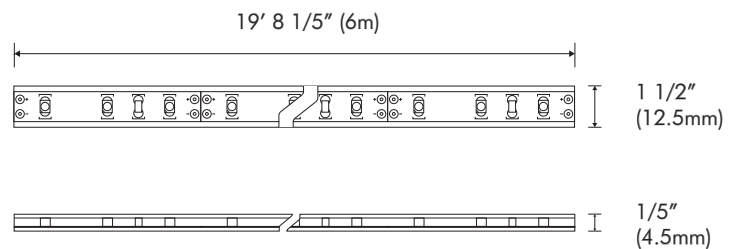
## R VALUES

| R1  | R2  | R3  | R4  | R5  |
|-----|-----|-----|-----|-----|
| 91  | 91  | 87  | 91  | 90  |
| R6  | R7  | R8  | R9  | R10 |
| 89  | 90  | 87  | 89  | 87  |
| R11 | R12 | R13 | R14 | R15 |
| 90  | 80  | 91  | 90  | 90  |

## PHYSICAL

|                       |  |
|-----------------------|--|
| Applications          | Wet Locations, Cabinet, Cove, Display, Niches, Perimeter Lighting                            |
| Dimensions            | Length 19' 8 1/5" (6m)<br>Width 1/2" (12.5mm)<br>Height 1/5" (4.5mm)                         |
| LED Spacing           | 3/5" (14mm)  |
| Cutting Distance      | 2" (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 ~ 70°C)   |
| Storage Temperature   | -40°F ~ 176°F (-40°C ~ 80°C)   |
| Humidity              | 0-95% Non Condensing   |

## DIMENSIONS



## MODA TECHNOLOGY

moda**HIGH CRI**

moda**PHOSPHOR**<sup>™</sup>

## STANDARDS & CERTIFICATIONS



LM  
79

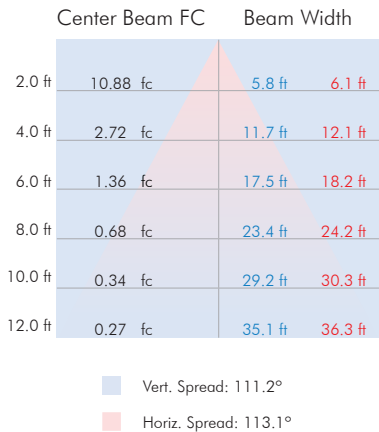
LM  
80

5  
YEAR  
WARRANTY

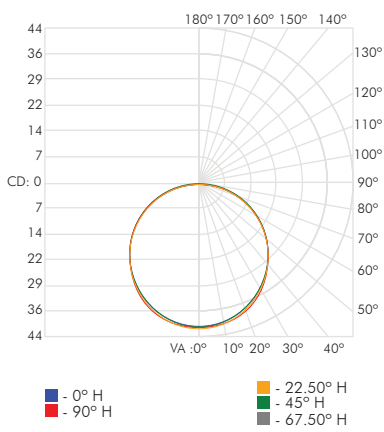
Project Name:

Notes:

ILLUMINANCE AT A DISTANCE



POLAR CANDELA DISTRIBUTION



ZONAL LUMEN SUMMARY

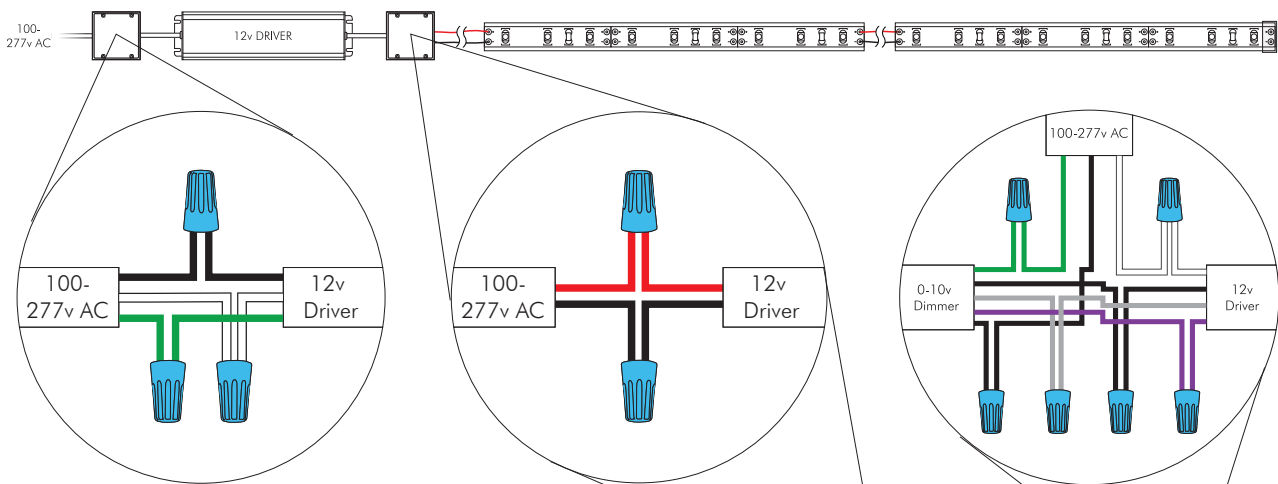
| Zone   | Lumens | % Lamp | % Fixt  |
|--------|--------|--------|---------|
| 0-30   | 31.10  | N.A.   | 26.50%  |
| 0-40   | 51.20  | N.A.   | 43.60%  |
| 0-60   | 90.60  | N.A.   | 77.1%   |
| 60-90  | 22.30  | N.A.   | 19.00%  |
| 0-90   | 112.80 | N.A.   | 96.00%  |
| 90-180 | 4.70   | N.A.   | 4.00%   |
| 0-180  | 117.50 | N.A.   | 100.00% |

LUMENS PER ZONE

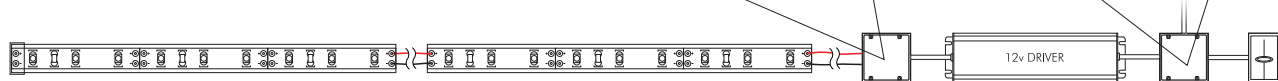
| Zone   | Lumens | % Lamp | % Fixt |
|--------|--------|--------|--------|
| 0-10   | 3.70   | N.A.   | 3.20%  |
| 10-20  | 10.80  | N.A.   | 9.20%  |
| 20-30  | 16.50  | N.A.   | 14.10% |
| 30-40  | 20.00  | N.A.   | 17.10% |
| 40-50  | 20.80  | N.A.   | 17.70% |
| 50-60  | 18.50  | N.A.   | 15.80% |
| 60-70  | 13.40  | N.A.   | 11.40% |
| 70-80  | 6.80   | N.A.   | 5.80%  |
| 80-90  | 2.00   | N.A.   | 1.70%  |
| 90-100 | 1.00   | N.A.   | 0.90%  |

WIRING

UL / cUL Non-dimming



UL / cUL ELV Dimming



WIRING LEGEND

| Power (100-277v AC)        | UL/cUL                     | 12v Driver                 |
|----------------------------|----------------------------|----------------------------|
| <div></div> Power Positive | <div></div> Power Positive | <div></div> Power Positive |
| <div></div> Power Negative | <div></div> Power Negative | <div></div> Power Negative |
| <div></div> Ground         |                            | <div></div> Ground         |
|                            |                            | <div></div> Data Positive  |
|                            |                            | <div></div> Data Negative  |

MAX CONTINUOUS RUN

|             |      |
|-------------|------|
| 60w Driver  | 39ft |
| 100w Driver | 64ft |
| 132w Driver | 85ft |
| 150w Driver | 96ft |

## ACCESSORIES



### MRTA61 MOUNTING CLIPS

Screws into Surface to Hold AQUAFLEX

Two Screws  
1/2" (13mm)

L: 1 1/5" (30mm)  
W: 1/5" (6mm)  
H: 1/5" (5mm)



### MRTA63 END CAP

Terminates AQUAFLEX to  
Protect FPCB From Dust or Water

L: 3/5" (15mm)  
W: 1/5" (5mm)  
H: 1/5" (5mm)



### MRTA62 3M Marine Grade Super Silicone Sealant

Applied Between AQUAFLEX, Connectors or  
End Caps to Seal From Exposure to Moisture

Super Silicone Sealant  
3oz



### MRTA62-XL 3M Marine Grade Silicone Super Silicone Sealant

Applied Between AQUAFLEX, Connectors or  
End Caps to Seal From Exposure to Moisture

Super Silicone Sealant  
1/10 gal

## 12v 0-10v Dimming Drivers



### MP05 347v AC

60w - IP66

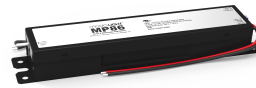
L: 9 2/5" (240mm)  
W: 1 7/10" (43mm)  
H: 1 3/10" (32mm)



### MP18N 100 - 277v AC

60w - IP66

L: 9 2/5" (240mm)  
W: 1 7/10" (43mm)  
H: 1 3/10" (32mm)



### MP86 100 - 277v AC

100w - IP66

L: 9 1/2" (241mm)  
W: 2 3/10" (58mm)  
H: 1 1/2" (37mm)



### MP88 100 - 277v

150w - IP66

L: 9 1/2" (241mm)  
W: 2 3/5" (67mm)  
H: 1 3/5" (40.5mm)

## 12v Non Dimming Drivers



### MP16 100 - 277v AC

132w - IP67

L: 8 7/10" (222mm)  
W: 2 7/10" (68mm)  
H: 1 1/2" (39mm)

## STANDARDS & CERTIFICATIONS

|               |   |
|---------------|---|
| Certification | Tested to UL & CSA by ETL For Use in USA & CANADA, Complies with California Title 24 Requirements, Lighting Facts.<br>Exceeds ANSI C78.377A, CE & RoHS Compliant. |
| Class         | 3   |
| Environment   | Wet Location - IP67   |
| Warranty      | 5 Year Limited Warranty   |

## ORDERING

AQF-EXT-S-S1-W-27-19