moda**LIGHT**®
SPECIFICATION

Dimmable Wet Location LED Linear Flex System.

Very high output linear flex system. Superior level of illumination with a high level of delivered lumens per foot. Over 600 high quality SMD LEDs per reel and a unique high copper content FPCB design that allows for stable and consistent thermal management. IP67 wet location rated. Fully field cuttable every 1in and has available accessories for easy field installation. Fully dimmable through use of MODA LIGHT drivers.
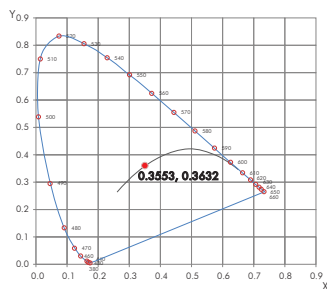
OUTPUT

Delivered Lumens	394.18 lm/ft
CCT & SDMC	4000K - 2 Step MacAdam Ellipse
Chromaticity Coordinates	x: 0.3553 y: 0.3632 u: 0.2138 v: 0.4917
Color Bin Tolerance	+/- 3%
Efficacy (lm/W)	68.00
CRI	93
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	5.8W per ft (0.04A)
Power Factor	≤ 1
Control	0-10V, ELV (By others), & MLV (By others)

PHYSICAL

Applications	IP67 Wet Locations, Cabinet, Cove, Display, Niches, Perimeter Lighting
Dimensions	Length 196 3/4in (5m) Width 1/2in (13mm) Height 3/16in (5mm)
LED Spacing	1/4in (6mm)
Cutting Distance	1in (25mm)
Weight	11.2oz (318g) 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

196 3/4in (5m)

1/2in (13mm)

1/4in (5mm)

CIE 1931 CHROMATICITY DIAGRAM

0.3553, 0.3632

R VALUES

R1	R2	R3	R4	R5
93	93	89	93	92
R6	R7	R8	R9	R10
93	92	89	91	89
R11	R12	R13	R14	R15
92	82	93	92	92
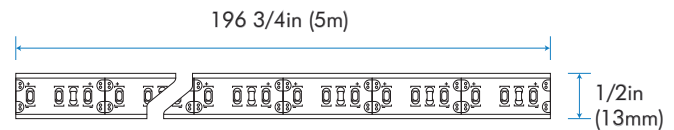
MODA TECHNOLOGY

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	36.40 fc	5.7ft	6.1 ft
4.0 ft	9.10 fc	11.4 ft	12.3 ft
6.0 ft	4.50 fc	17.2 ft	18.4 ft
8.0 ft	2.20 fc	22.9 ft	24.5 ft
10.0 ft	1.10 fc	28.6 ft	30.7 ft
12.0 ft	1.00 fc	34.3 ft	36.8 ft

Vert. Spread: 112.5°
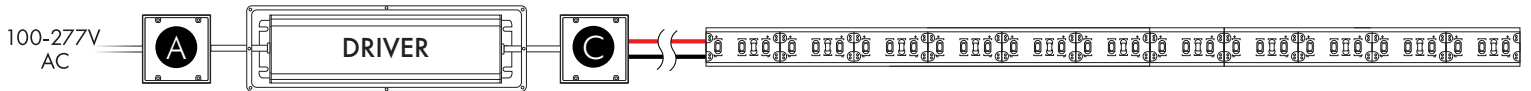Horiz. Spread: 112.8°

POLAR CANDELA DISTRIBUTION

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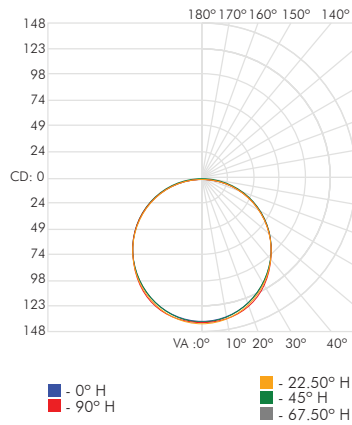
ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt
0-30	105.20	N.A.	26.70%
0-40	172.20	N.A.	43.70%
0-60	301.90	N.A.	76.60%
60-90	73.70	N.A.	18.70%
0-90	375.20	N.A.	95.20%
90-180	19.00	N.A.	4.80%
0-180	394.10	N.A.	100.00%

LUMENS PER ZONE

Zone	Lumens	% Lamp	% Fixt
0-10	13.00	N.A.	3.30%
10-20	36.60	N.A.	9.30%
20-30	55.50	N.A.	14.10%
30-40	67.00	N.A.	17.00%
40-50	69.00	N.A.	17.50%
50-60	60.70	N.A.	15.40%
60-70	44.10	N.A.	11.20%
70-80	22.40	N.A.	5.70%
80-90	7.00	N.A.	1.80%
90-100	5.10	N.A.	1.30%

WIRING

UL / cUL Non-dimming

100-277V AC — A — DRIVER — C

UL / cUL ELV Dimming

100-277V AC — B — DRIVER — C

A — 100-277V AC / 12V DC Driver

B — 0-10V Dimmer / 100-277V AC / 12V DC Driver

C — 12V DC LED Driver / Cable to MODA Flex
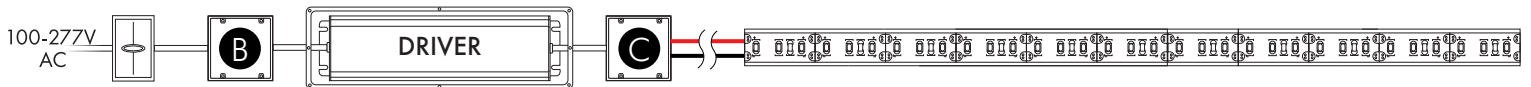
WIRING LEGEND

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 LOAD

60W Driver	9ft
100W Driver	15ft
132W Driver	20ft
150W Driver	23ft

MAX CONTINUOUS RUN

196 3/4in (5m)

FIXTURE	ORDERING SKU
Super Aquaflex - IP67 Wet Location SO S1White PCB 4000K HCRI 16.4ft	SAF-EXT-S-S1-W-4H-16

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 Clip	MRTA61
End Cap	MRTA63
3M Super Silicone Sealant 3 oz	MRTA62
3M Super Silicone Sealant 1/10 Gal	MRTA62-XL