# moda**LIGHT**®
S P E C I F I C A T I O N

Dimmable Low Profile LED Linear Flex System.

ECOFLEX HCRI is a cost effective LED linear flex lighting system. Built from high quality SMD LED's with a unique high copper content FPCB design that allows for stable and consistent thermal management. ECOFLEX HCRI is field cuttable every 2'' with easy installations thanks to its 3m self adhesive backing and multiple accessories for field customizing. Fully dimmable through use of MODA LIGHT drivers. See MODA Metal ® for extrusion options.
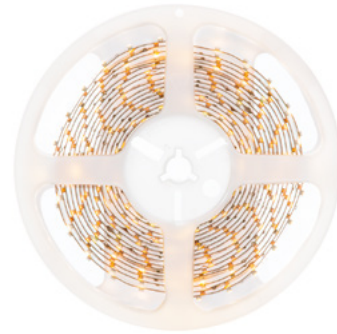
OUTPUT

Delivered Lumens	158.65 lm / ft
CCT & SDMC	4000K - 2 Step MacAdam Ellipse
Chromaticity Coordinates	x: 0.3247 y: 0.3448 u: 0.2002 v: 0.4781
Color Bin Tolerance	+ 3% / -3%
Efficacy (lm/w)	113.32
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	1.4W per ft (0.02A)*
Power Factor	≤ 1
Dimming	100-277V 0-10V & Magnetic Low Voltage
Emergency	N/A

* Varies based on length of run and driver

## CIE 1931 CHROMATICITY DIAGRAM

0.3247, 0.3448
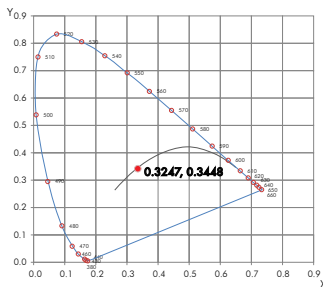
R VALUES

R1	R2	R3	R4	R5
93	93	89	92	91

R6	R7	R8	R9	R10
90	91	92	93	89

R11	R12	R13	R14	R15
90	89	92	91	91

PHYSICAL

Applications	Cabinet, Cove, Display, Niches, Perimeter Lighting
Dimensions	Length 16' 4 13/16" (5m) Width 5/16" (8mm) Height 1/8" (2.5mm)
LED Spacing	5/8" (14mm)
Beam Distribution	110°
Cutting Distance	2" (51mm)
Weight	3.9oz (110g) Per Reel
Construction	Constant Voltage Design Protects LEDs and Prolongs Life. White FPCB.
Thermal Management	N/A
Optics	N/A
Fixture Connections	Push to Fit Connectors
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

16' 4 13/16" (5m)

5/16" (8mm)

1/8" (2.5mm)
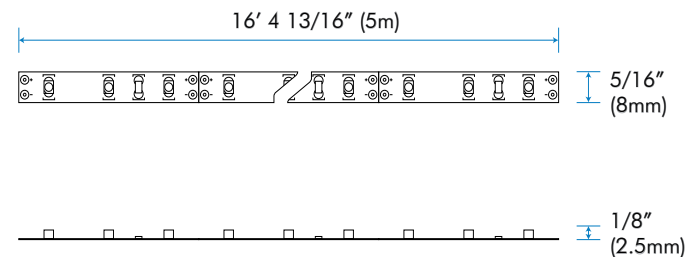
MODA TECHNOLOGY

moda**HIGH CRI**

moda**PHOSPHOR**™

STANDARDS & CERTIFICATIONS

ETL ⓛ us   CE   RoHS ✓

LM 79   LM 80   5 YEAR WARRANTY

Project Name:

Notes:

ILLUMINANCE AT A DISTANCE

	Center Beam FC	Beam Width	
2.0 ft	14.60 fc	6.3 ft	6.5 ft
4.0 ft	3.60 fc	12.6 ft	13.1 ft
6.0 ft	1.80 fc	19.0 ft	19.6 ft
8.0 ft	1.0 fc	25.3 ft	26.2 ft
10.0 ft	0.40 fc	31.6 ft	32.7 ft
12.0 ft	0.30 fc	37.9 ft	39.2 ft

Vert. Spread: 115.3°
Horiz. Spread: 117.1°
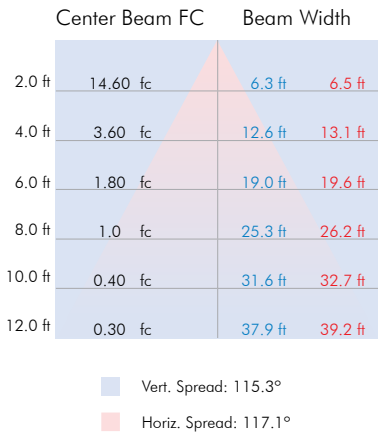
POLAR CANDELA DISTRIBUTION

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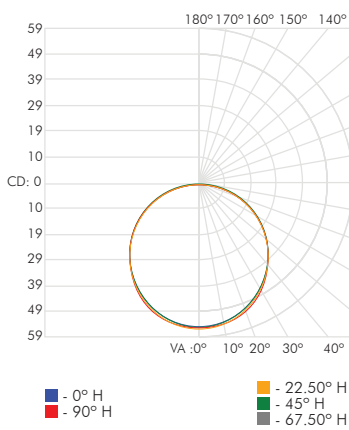
ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt
0-30	41.20	N.A.	26.00%
0-40	68.00	N.A.	42.90%
0-60	122.30	N.A.	77.10%
60-90	34.20	N.A.	22.00%
0-90	157.00	N.A.	99.00%
90-180	1.50	N.A.	1.00%
0-180	158.60	N.A.	100.00%

LUMENS PER ZONE

Zone	Lumens	% Lamp	% Fixt
0-10	5.0	N.A.	3.10%
10-20	14.20	N.A.	9.00%
20-30	21.90	N.A.	13.80%
30-40	26.80	N.A.	16.90%
40-50	28.20	N.A.	17.80%
50-60	25.80	N.A.	16.30%
60-70	20.00	N.A.	12.60%
70-80	11.50	N.A.	7.30%
80-90	3.30	N.A.	2.10%
90-100	0.00	N.A.	0.00%

WIRING

UL / cUL Non-dimming
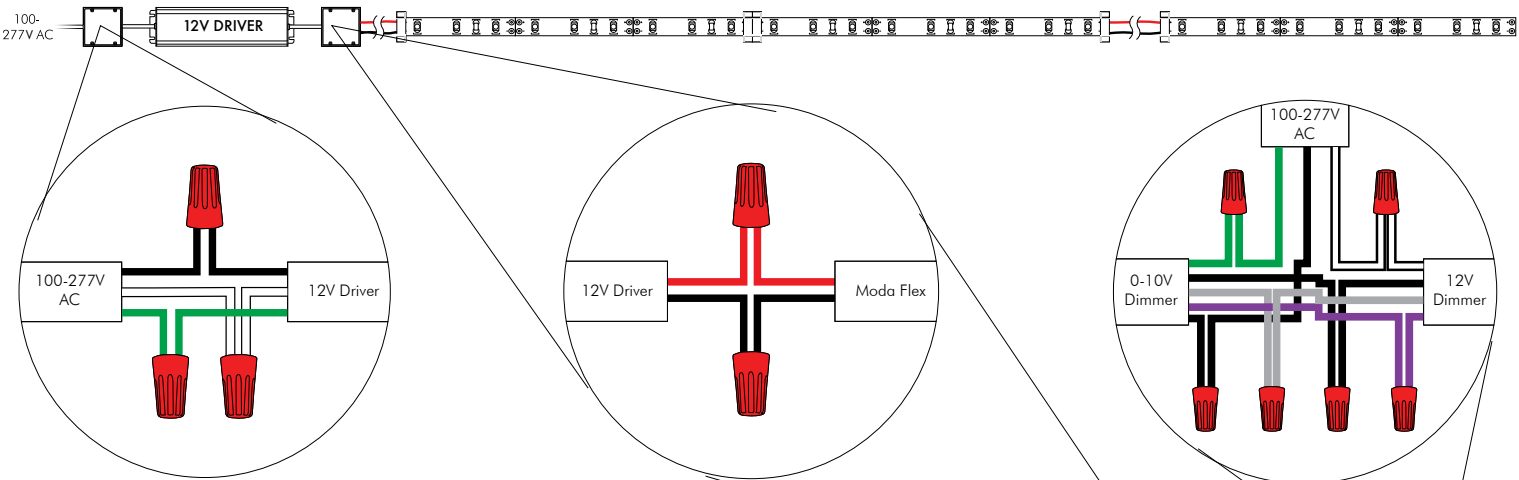
UL / cUL ELV Dimming
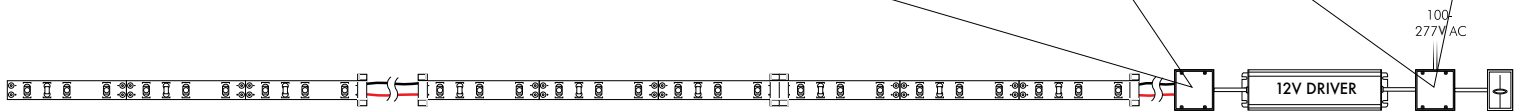
WIRING LEGEND

Power (100-277V AC)
- Power Positive
- Power Negative
- Ground

UL/cUL
- Power Positive
- Power Negative

12V Driver
- Power Positive
- Power Negative
- Ground
- Data Positive
- Data Negative

MAX RUN

60W Driver	39ft
100W Driver	64ft
132W Driver	85ft
150W Driver	96ft

ACCESSORIES

MRTA25 10' Leader Cable	MRTA26 In-Line Connector	MRTA27 4" EZ - Connector for ECOFLEX	MODA SHIELD
Connects ECOFLEX to Power Supply	Connects Two ECOFLEX Together	Connects Two ECOFLEX and Allows for Flexible Corner Bends	Comes in Either Clear (C) or White (W) Finish
L: 1/2" (13mm) W: 1/4" (6mm) H: 1/8" (2mm)	L: 1/2" (13mm) W: 7/16" (10mm) H: 1/8" (2mm)	L: 1/2" (13mm) W: 1/4" (6mm) H: 1/8" (2mm)	4' Section Interior Channel: 5/16" (8mm)

12V 0-10V Dimming Drivers

MP05 347V AC	MP18N 100 - 277V AC	MP86 100 - 277V AC	MP88 100 - 277V
60W - IP66	60W - IP66	100W - IP66	150W - IP66
L: 9 7/16" (240mm) W: 1 3/4" (43mm) H: 1 5/16" (32mm)	L: 9 7/16" (240mm) W: 1 3/4" (43mm) H: 1 5/16" (32mm)	L: 9 1/2" (241mm) W: 2 5/16" (58mm) H: 1 1/2" (37mm)	L: 9 1/2" (241mm) W: 2 5/8" (67mm) H: 1 5/8" (40.5mm)

12V Non Dimming Drivers

MP16 100 - 277V AC
132W - IP67
L: 8 3/4" (222mm) W: 2 3/4" (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. Exceeds ANSI C78.377A, CE & RoHS Compliant.
Class	3
Environment	Dry Location - IP20
Warranty	5 Year Limited Warranty

ORDERING

ECF-INT-S-S1-W-4H-16