

modaLIGHT[®]

SPECIFICATION

Super High Output Linear Flex

X-FLEX HCRI uses the latest Samsung SMD LED Package that delivers an incredible amount of illumination while remaining cost efficient. With its low profile, cutting distances of every 1/2in and a high copper content FPCB for stable thermal management, X-FLEX HCRI is a high performance LED package. This product must be used with an extrusion to achieve L70.

OUTPUT

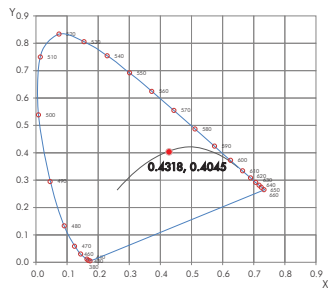
Delivered Lumens	447.13 lm/ft
CCT & SDMC	2700K - 2 Step MacAdam Ellipse
Chromaticity Coordinates	x: 0.4318 y: 0.4045 u: 0.2467 v: 0.5206
Color Bin Tolerance	+/- 3%
Efficacy (lm/W)	58.83
CRI	91
Lumen Maintenance	70,000 Hours L70 @ 25°C* 90,000 Hours L50 @ 25°C 50,000 Hours L70 @ 50°C* 70,000 Hours L50 @ 50°C
Testing Data	Light Data LM-79-08 & LM-80-08

* This product must be used with an extrusion to achieve L70

ELECTRICAL

Input Voltage	12V DC
Power Consumption	7.6W per ft (0.06A)
Power Factor	≤ 1
Control	0-10V, ELV (By others), & MLV (By others)

CIE 1931 CHROMATICITY DIAGRAM



R VALUES

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

Project Name:

Notes:

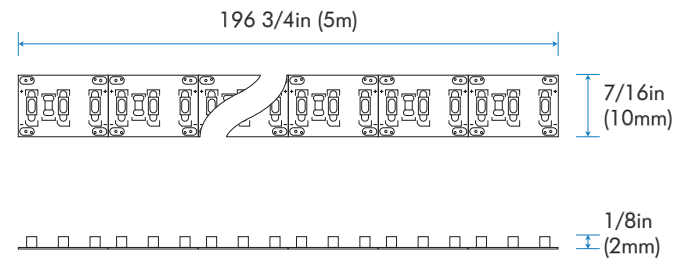
X-FLEX[®] INTERIOR 2700K HCRI



PHYSICAL

Applications	IP20 Dry Location, Cabinet, Cove, Display, Niches, Perimeter Lighting
Dimensions	Length 196 3/4in (5m) Width 7/16in (10mm) Height 1/8in (2mm)
LED Spacing	1/8in (4mm)
Cutting Distance	1/2in (15mm)
Weight	6.4oz (181.4g) Per Reel
Construction	Constant Voltage Design Protects LEDs And Prolongs Life. White FPCB Inside a Silicone Sleeve
Thermal Management	MODA Xtrusion [®]
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



MODA TECHNOLOGY

modaPHOSPHOR[™]

modaZERO BIN[™]

modaHIGH CRI[™]

STANDARDS & CERTIFICATIONS



RoHS ✓

LM
79

LM
80

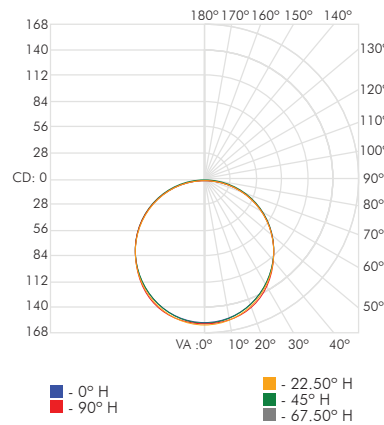
5
YEAR
WARRANTY

ILLUMINANCE AT A DISTANCE

Center Beam FC	Beam Width
2.0 ft	41.40 fc
4.0 ft	10.30 fc
6.0 ft	5.10 fc
8.0 ft	2.50 fc
10.0 ft	1.20 fc
12.0 ft	1.00 fc

Vert. Spread: 115.7°
Horiz. Spread: 118.0°

POLAR CANDELA DISTRIBUTION



ZONAL LUMEN SUMMARY

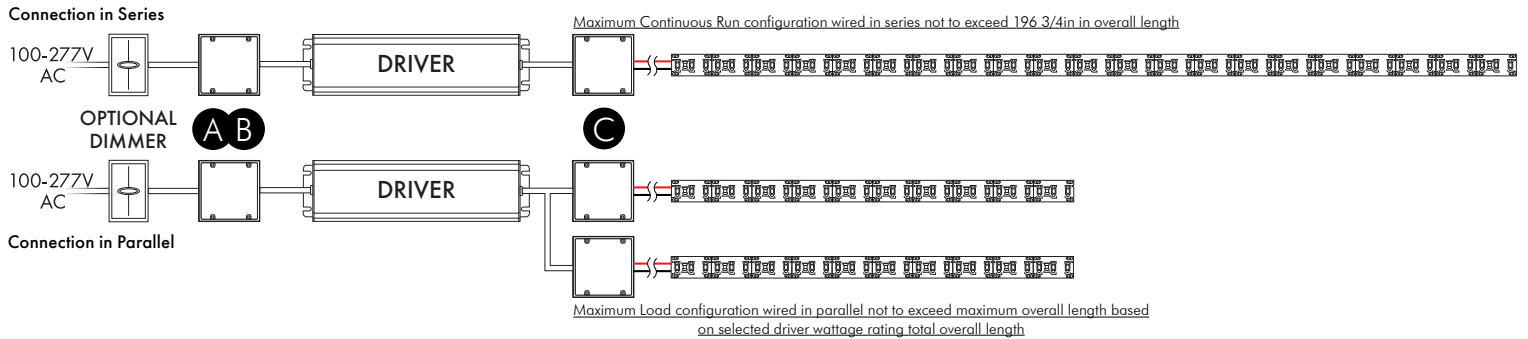
Zone	Lumens	% Lamp	% Fixt
0-30	117.10	N.A.	26.20%
0-40	192.70	N.A.	43.10%
0-60	344.70	N.A.	77.10%
60-90	97.40	N.A.	21.90%
0-90	442.60	N.A.	99.00%
90-180	4.40	N.A.	1.00%
0-180	447.10	N.A.	100.00%

LUMENS PER ZONE

Zone	Lumens	% Lamp	% Fixt
0-10	14.30	N.A.	3.20%
10-20	40.60	N.A.	9.1%
20-30	62.10	N.A.	13.90%
30-40	75.50	N.A.	16.90%
40-50	79.50	N.A.	17.80%
50-60	72.40	N.A.	16.20%
60-70	55.80	N.A.	12.50%
70-80	32.60	N.A.	7.30%
80-90	9.30	N.A.	2.10%
90-100	0.00	N.A.	0.00%

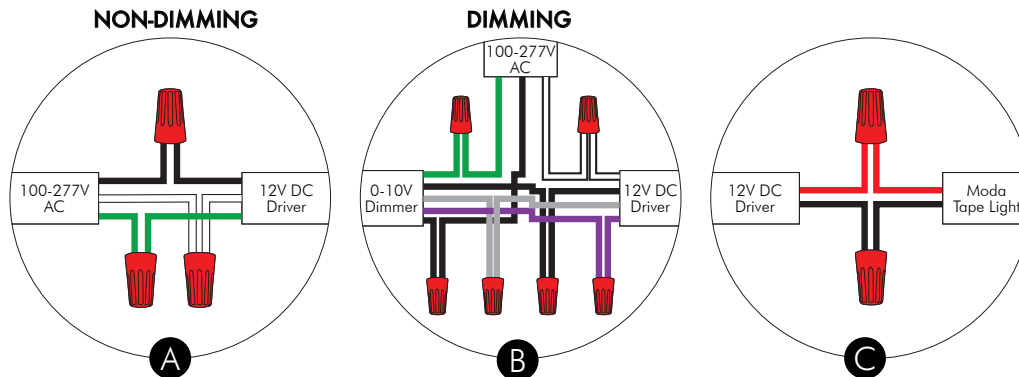
WIRING

UL / cUL Dimming and Non-dimming



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: 2 parallel connections x 102in lengths ≤ 17 total feet for Max Load determination equipped with 150W driver.



WIRING LEGEND

12V Driver Primary Side		12V Driver Secondary Side	
Black	Live 100-277V AC	Red	DC Power Positive
White	Neutral AC	Black	DC Power Negative
Green	Ground AC	Purple	0-10V Data Positive
		Negative	0-10V Data Negative

MAX CONTINUOUS RUN

196 3/4in (5m)

MAX LOAD

60W Driver	7ft
100W Driver	11ft
132W Driver	15ft
150W Driver	17ft

FIXTURE	ORDERING SKU
X-Flex - IP20 Dry Location SO S1White PCB 12V DC Reel 2700K HCRI 16.4FT	AFX-INT-S-S1-W-27-16

POWER	ORDERING SKU
12V DC Driver - 100-277V AC Input - Non-Dimmable - 150W - 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