moda**LIGHT**®
SPECIFICATION

RGBW Dry Location LED Flexible Linear System

RGBW STARFLEX 3000K is a premium member of the STARFLEX family. This model comes equipped with a warm white LED and a 3 in 1 RGB LED. Compatible with DMX512 and capable of producing 16.7 million color variations and instantly transitioning to 3000K white light. Can be cut every 6 1/2in. Easy peel 3M backing for fixing to most surfaces. A perfect low energy, low heat output solution for cove, niche, cabinet and display applications.
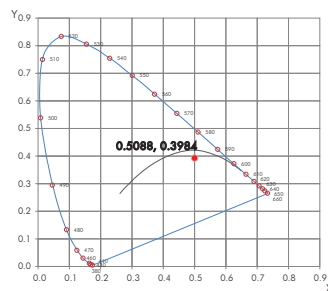
OUTPUT

Delivered Lumens	206.68 lm/ft at full output
CCT & SDMC	3000K - Full RGBW
Chromaticity Coordinates	x: 0.5088 y: 0.3984 u: 0.3009 v: 0.3535
Color Bin Tolerance	N/A
Efficacy (lm/W)	54.10
CRI	N/A
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	24V DC
Power Consumption	3.82W/ft
Power Factor	≤ 1
Control	DMX512

PHYSICAL

Applications	IP20 Dry Locations, Cabinet, Cove, Display, Niches, Perimeter Lighting
Dimensions	Length 196 13/16in (5m) (Full Reel) Width 1/2in (12mm) Height 1/8in (3mm)
LED Spacing	7/16in (6mm)
Beam Distribution	110°
Cutting Distance	6 1/2in (166mm)
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	Snap on Connectors
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

196 13/16in (5m)

1/2in (12mm)

1/8in (3mm)

CIE 1931 CHROMATICITY DIAGRAM

0.5088, 0.3984

LUMINANCE DATA
(cd/sq.m)

Angle in Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4579	4708	4692
55	4587	4767	4767
65	4575	4656	4656
75	4155	4288	4243
85	3544	3675	3544
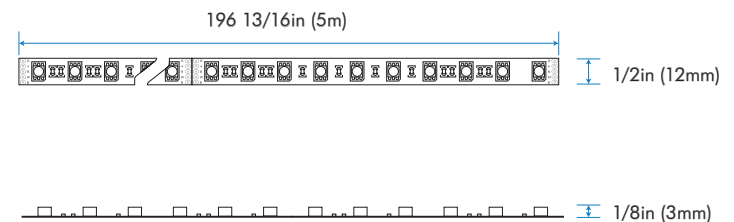
MODA TECHNOLOGY

moda**PHOSPHOR**™

moda **ZERO BIN**™

STANDARDS & CERTIFICATIONS

c(UL)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	0.99 fc	7.0 ft	6.5 ft
4.0 ft	0.25 fc	13.9 ft	13.1 ft
6.0 ft	0.11 fc	20.9 ft	19.6 ft
8.0 ft	0.06 fc	27.9 ft	26.2 ft
10.0 ft	0.04 fc	34.8 ft	32.7 ft
12.0 ft	0.03 fc	41.8 ft	39.2 ft

Vert. Spread: 120.3°
Horiz. Spread: 122.1°
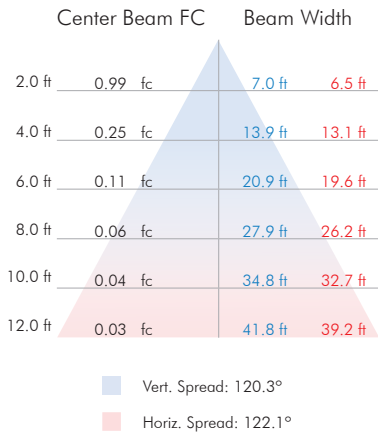
POLAR CANDELA DISTRIBUTION

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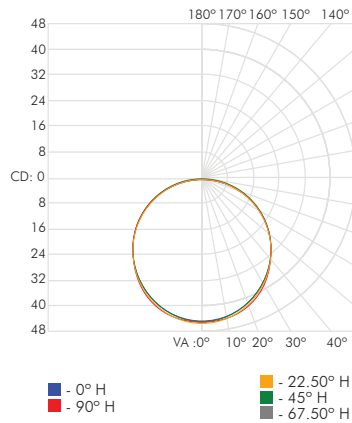
ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt
0-30	51.67	N.A.	25.00%
0-40	85.57	N.A.	41.40%
0-60	157.08	N.A.	76.00%
60-90	44.64	N.A.	21.60%
0-90	206.68	N.A.	100.00%
90-180	0.00	N.A.	0.00%
0-180	206.68	N.A.	100.00%

LUMENS PER ZONE

Zone	Lumens	% Lamp	% Fixt
0-10	6.24	N.A.	3.02%
10-20	17.92	N.A.	8.67%
20-30	27.47	N.A.	13.29%
30-40	34.04	N.A.	16.47%
40-50	36.66	N.A.	17.74%
50-60	34.87	N.A.	16.87%
60-70	27.94	N.A.	13.52%
70-80	16.62	N.A.	8.04%
80-90	51.05	N.A.	2.47%
90-100	0.00	N.A.	0.00%

WIRING

Single Run DMX Wiring
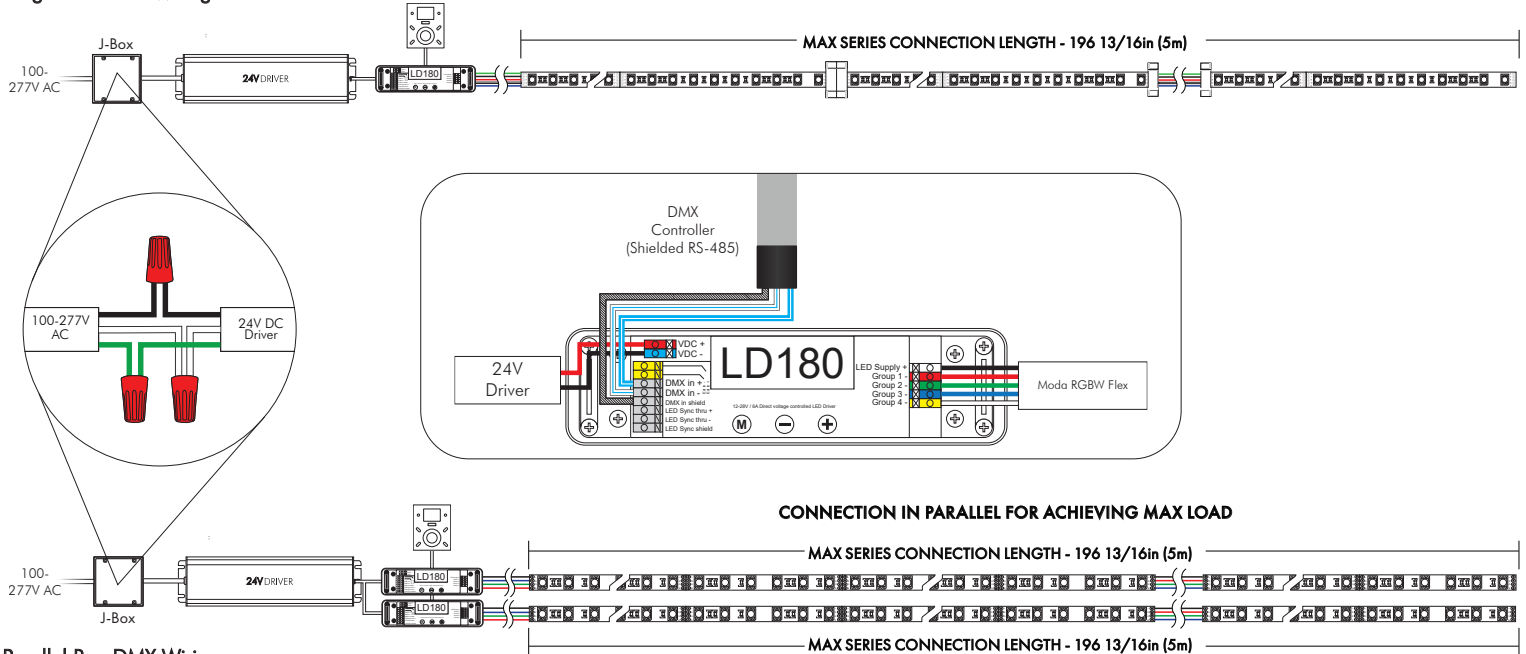
Parallel Run DMX Wiring

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 7ft lengths ≤ 35 total feet for Max Load determination.

WIRING LEGEND

24V Driver Primary Side	24V Driver Secondary Side	DMX CONTROLLER	Leader Cable
Live 100-277V AC	DC Power Positive	Data Positive	24V Positive
Neutral AC	DC Power Negative	Data Negative	Red
Ground AC		DMX Shield	Green
			Blue

FIXTURE	ORDERING SKU
Starflex RGBW 3000K - IP20 Dry Location 16.4FT	RGBWW-STF

POWER	ORDERING SKU
24V DC Driver - 100-277V AC Input - Non-Dimmable - 150W - IP20	MP17

ACCESSORIES	ORDERING SKU
10ft Leader Cable	MRTA55
4in EZ Connector	MRTA56
In-Line Connector	MRTA57
Moda Shield Clear 4FT	MODA-SHD-C-4FT
Moda Shield White 4FT	MODA-SHD-W-4FT

CONTROLS	DESCRIPTION	PART NUMBER	ORDERING SKU
Kandi Touch	DMX512 Wall Mounted Touch Panel Controller with Color Display	KND-TCH-B (Black) KND-TCH-W (White)	250-0040 250-0041
MODA Touch	DMX512 Wall Mounted Touch Panel Controller	MTCH-S1-B (Black) MTCH-S1-W (White)	MTCH-S1-B MTCH-S1-W

CONTROL ACCESSORIES	DESCRIPTION	PART NUMBER	ORDERING SKU
Linear Drive 180	180W 4 Channel Constant Voltage DMX Interface	N/A	LD180
Shielded Cable 500FT	RS-485 Cable for DMX, 24 AWG stranded TC conductors, polyethylene insulation	SW-L-19827-1-500FT	250-0251
Shielded Cable 1000FT	RS-485 Cable for DMX, 24 AWG stranded TC conductors, polyethylene insulation	SW-L-19827-1-1000FT	250-0252

Due to continuous improvements and innovations, specifications may change without notice.
Please refer to our website for current technical data. These figures are provided as a guideline
only and may vary with differing power supplies and installations. All rights reserved. E&OE.

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