modaLIGHT®
SPECIFICATION

RGB FLATFLEX®

RGB FLATFLEX:

MODA's new ultra low profile flexible lighting solution is just 1/5" (6mm) thick and has all of its components cleverly hidden from view so the flex looks like a lighting fixture. Free from any form of shape memory, easily bends along its line of light giving the specifier a multitude of design options. Using MODA DMX512 controls gives complete control over this product, change colors and adjust brightness down to 0%. Full line of accessories available. MODA Xtrusion®, clips, simple leader and jumper cables. Black, White or Clear finish options. Supplied in contractor ready 150ft (45.7m) reels. UL listed for use in USA & Canada.
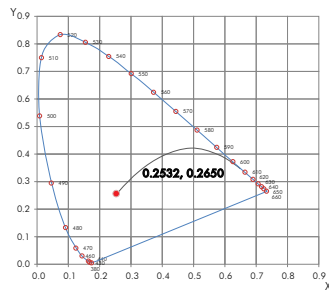
OUTPUT

Delivered Lumens	96.45 lm / ft
CCT & SDMC	1850K - Full RGB
Chromaticity Coordinates	x: 0.2532 y: 0.2650 u: 0.1785 v: 0.4204
Color Bin Tolerance	N/A
Efficacy (lm/w)	31.21
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	3.09W per ft (0.14A)*
Power Factor	≤ 1
Control	DMX 512

* Varies based on run and driver

PHYSICAL

Applications	Cove, Kitchen, Cabinet, Furniture, Signage
Dimensions	Length 150' Drum (45.72m) Width 5/8" (15.8mm) Height 1/4" (6mm)
LED Spacing	3/4" (17mm)
Beam Distribution	110°
Cutting Distance	4" (100mm)
Weight	14.3oz (6.48kg) Per Reel
Construction	Tough Polyepoxide UV Protected Body
Thermal Management	N/A
Optics	N/A
Fixture Connections	Push To Fit Connectors
Operating Temperature	-4°F ~ 122°F (-20°C ~ 50°C)
Storage Temperature	-40°F ~ 176°F (-40°C ~ 80°C)
Humidity	0-95% Non Condensing

DIMENSIONS

150' (45.72m)

5/8" (15.8mm)

1/4" (6mm)

CIE 1931 CHROMATICITY DIAGRAM

0.2532, 0.2650

LUMINANCE DATA
(cd/sq.m)

Angle in Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	124425	126934	128063
55	119547	122563	123626
65	110282	112433	113798
75	94450	96421	97149
85	91586	97692	99600
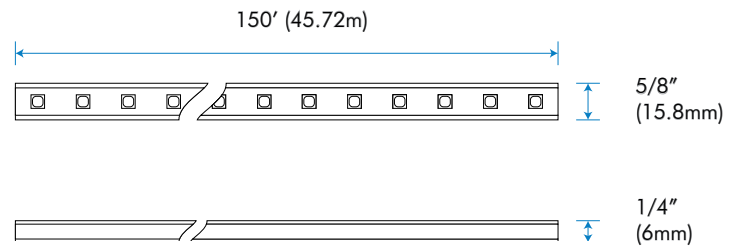
MODA TECHNOLOGY

modaBIN™

STANDARDS & CERTIFICATIONS

ETL us   CE   RoHS ✓

LM 79   LM 80   3 YEAR WARRANTY

Meets ASHRAE standards
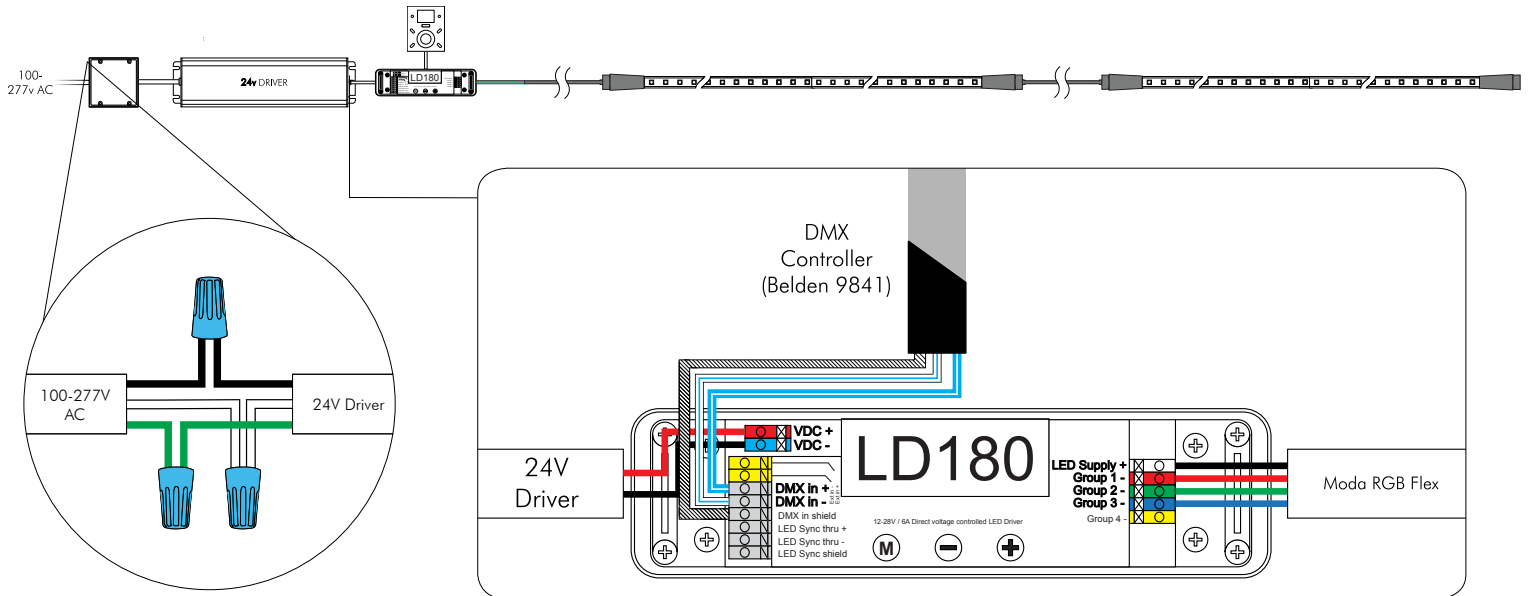
Project Name:

Notes:

ILLUMINANCE AT A DISTANCE

	Center Beam FC	Beam Width	
2.0 ft	12.36 fc	4.5 ft	4.5 ft
4.0 ft	3.09 fc	9.0 ft	9.0 ft
6.0 ft	1.37 fc	13.5 ft	13.5 ft
8.0 ft	0.77 fc	17.9 ft	17.9 ft
10.0 ft	0.49 fc	22.4 ft	22.4 ft
12.0 ft	0.34 fc	26.9 ft	26.9 ft

Vert. Spread: 150°
Horiz. Spread: 150°
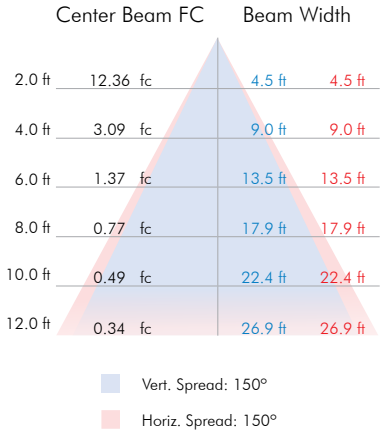
ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt
0-30	27.49	N.A.	28.50%
0-40	44.95	N.A.	46.60%
0-60	79.47	N.A.	82.40%
60-90	16.40	N.A.	17.00%
0-90	95.87	N.A.	99.40%
90-180	0.58	N.A.	0.60%
0-180	96.45	N.A.	100.00%

LUMENS PER ZONE

Zone	Lumens	% Lamp	% Fixt
0-10	3.38	N.A.	3.50%
10-20	9.65	N.A.	10.00%
20-30	14.47	N.A.	15.00%
30-40	17.55	N.A.	18.20%
40-50	18.33	N.A.	19.00%
50-60	16.11	N.A.	16.70%
60-70	10.51	N.A.	10.90%
70-80	4.34	N.A.	4.50%
80-90	1.45	N.A.	1.50%
90-100	0.58	N.A.	0.60%

WIRING

100-277v AC

24v DRIVER

LD180

DMX Controller (Belden 9841)

24V Driver

LD180
12-28V / 6A Direct voltage controlled LED Driver

VDC +
VDC -
DMX in +
DMX in -
DMX in shield
LED Sync thru +
LED Sync thru -
LED Sync shield

LED Supply +
Group 1 -
Group 2 -
Group 3 -
Group 4 -

M − +

Moda RGB Flex

100-277V AC   24V Driver

WIRING LEGEND

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

24V Driver
- Power Positive
- Power Negative

BELDEN 9841
- DMX Positive
- DMX Negative
- DMX Ground

RGB Leader Cable
- 24V Positive
- Red
- Green
- Blue

MAX RUN

96W Driver	28ft

RGB FLATFLEX®

ACCESSORIES

RGB-FF-LDR-CBL-W-5FT
5' Leader Cable

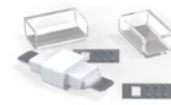Connects FLATFLEX to Power Supply

L: 1 1/2" (39mm)
W: 3/5" (18mm)
H: 2/5" (11mm)

RGB-FF-JMP-CBL-W-1FT
1' Jumper Cable

Connects Two FLATFLEX and Allows for Flexible Corner Bends

L: 1 1/2" (39mm)
W: 3/5" (18mm)
H: 2/5" (11mm)

RGB-FF-ILC-W
In-Line Connector

Connects Two FLATFLEX together

L: 1/2" (13mm)
W: 1/5" (6mm)
H: 1/10" (2mm)

RGB-FF-T-W
Terminator

Terminates FLATFLEX to protect FPCB from dust

L: 1/2" (13mm)
W: 1/5" (6mm)
H: 1/10" (2mm)

RGB-FF-CLP
Mounting Clip

Screws into surface to hold FLATFLEX

L: 1/2" (13mm)
W: 1/5" (6mm)
H: 1/10" (2mm)

MPND96
100 - 277V AC

96W- IP66

L: 12 1/12" (307mm)
W: 2 3/8" (60mm)
H: 1 7/16" (36mm)

**Kandi-Touch-Black /
Kandi-Touch-White**

DMX 512 Controller

L: 4 1/5" (106mm)
W: 5 7/10" (146mm)
H: 2/5" (11mm)

LD180
DMX Interface

Constant Voltage LED Driver

L: 6" (152mm)
W: 2" (50mm)
H: 9/10" (23mm)

BDL-9841-500FT

RS-485 Cable for DMX
24 AWG stranded TC conductors
polyethylene insulation

L: 500' (152.4m)

BDL-9841-1000FT

RS-485 Cable for DMX
24 AWG stranded TC conductors
polyethylene insulation

L: 1000' (304.8m)

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

RGB-FF-C-150FT
RGB-FF-W-150FT

moda LIGHT
SPECIFICATION

ACCESSORIES

RGB-FF-LDR-CBL-W-5FT
5' Leader Cable

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RGB-FF-JMP-CBL-W-1FT
1' Jumper Cable

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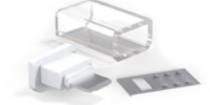
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RGB-FF-W-150FT