## RGB Side Emitting LED Flexible Linear System:

RGB EDGE BLACK is a premium version of the EDGE family. This model provides the same side emitting qualitites with the ability to contour to the tightest radius as the EDGE family only now is uses a 3 in 1 RGB LED. Compatible with DMX 512 and capable of producing 16.7 million color variations. RGB EDGE is field cuttable every 4" and supplied with a 3M self adhesive backing for simple installation. See MODA Metal® for extrusion options.
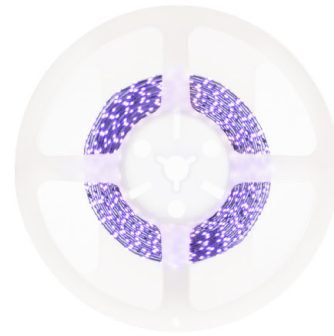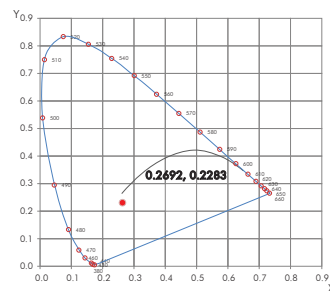
OUTPUT

Delivered Lumens	147.34 lm / ft
CCT & SDMC	3666K - Full RGB
Chromaticity Coordinates	x: 0.2692 y: 0.2283 u: 0.2071 v: 0.2634
Color Bin Tolerance	N/A
Efficacy (lm/w)	29.76
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	4.95w per ft (0.41A)*
Power Factor	≤ 1
Dimming	DMX 512: 1990
Emergency	N/A

* Varies based on run and driver

PHYSICAL

Applications	Cabinet, Cove, Display, Niches, Perimeter Lighting
Dimensions	Length 16' 4 4/5" (5m) Width 3/10" (8mm) Height 1/10" (2.5mm)
LED Spacing	3/5" (16mm)
Beam Distribution	110°
Cutting Distance	4" (101mm)
Weight	3.2oz (91g) 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 4/5" (5m)

3/10" (8mm)

1/10" (2.5mm)

CIE 1931 CHROMATICITY DIAGRAM

0.2692, 0.2283

LUMINANCE DATA
(cd/sq.m)

Angle in Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	20307	10737	3895
55	31635	14739	3413
65	41637	16773	2735
75	50458	16015	1779
85	139711	22775	712
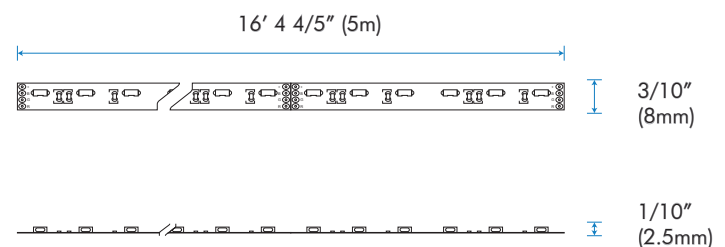
MODA TECHNOLOGY

modaBIN™

STANDARDS & CERTIFICATIONS

ETL c us · CE · RoHS APPROVED

LM 79 · LM 80 · 5 YEAR WARRANTY

Project Name:

Notes:

ILLUMINANCE AT A DISTANCE

	Center Beam FC	Beam Width	
2.0 ft	13.64 fc	3.7 ft	4.3 ft
4.0 ft	3.41 fc	7.4 ft	8.6 ft
6.0 ft	1.70 fc	11.1 ft	12.9 ft
8.0 ft	0.85 fc	14.8 ft	17.3 ft
10.0 ft	0.42 fc	18.5 ft	21.6 ft
12.0 ft	0.21 fc	22.2 ft	25.9 ft

Vert. Spread: 85.5°
Horiz. Spread: 94.3°
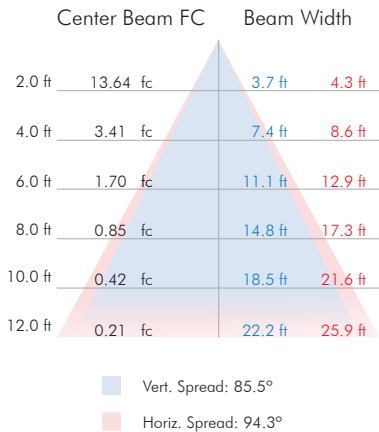
POLAR CANDELA DISTRIBUTION

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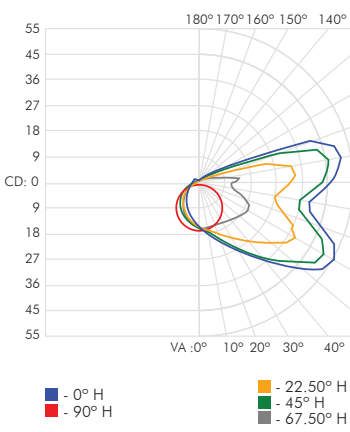
ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt
0-30	14.14	N.A.	9.60%
0-40	25.34	N.A.	17.20%
0-60	59.37	N.A.	40.30%
60-90	35.65	N.A.	24.20%
0-90	110.79	N.A.	75.20%
90-180	36.54	N.A.	24.80%
0-180	147.34	N.A.	100.00%

LUMENS PER ZONE

Zone	Lumens	% Lamp	% Fixt
0-10	1.91	N.A.	1.09%
10-20	4.72	N.A.	3.21%
20-30	7.86	N.A.	5.34%
30-40	11.19	N.A.	7.60%
40-50	14.91	N.A.	10.12%
50-60	18.97	N.A.	12.88%
60-70	19.50	N.A.	13.24%
70-80	16.08	N.A.	10.92%
80-90	15.85	N.A.	10.76%
90-100	17.20	N.A.	11.68%

WIRING

100-277v AC

24v DRIVER

LD180

DMX Controller (Belden 9841)

24v Driver

100-277v AC — 24v Driver

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

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

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

RGB EDGE BLACK
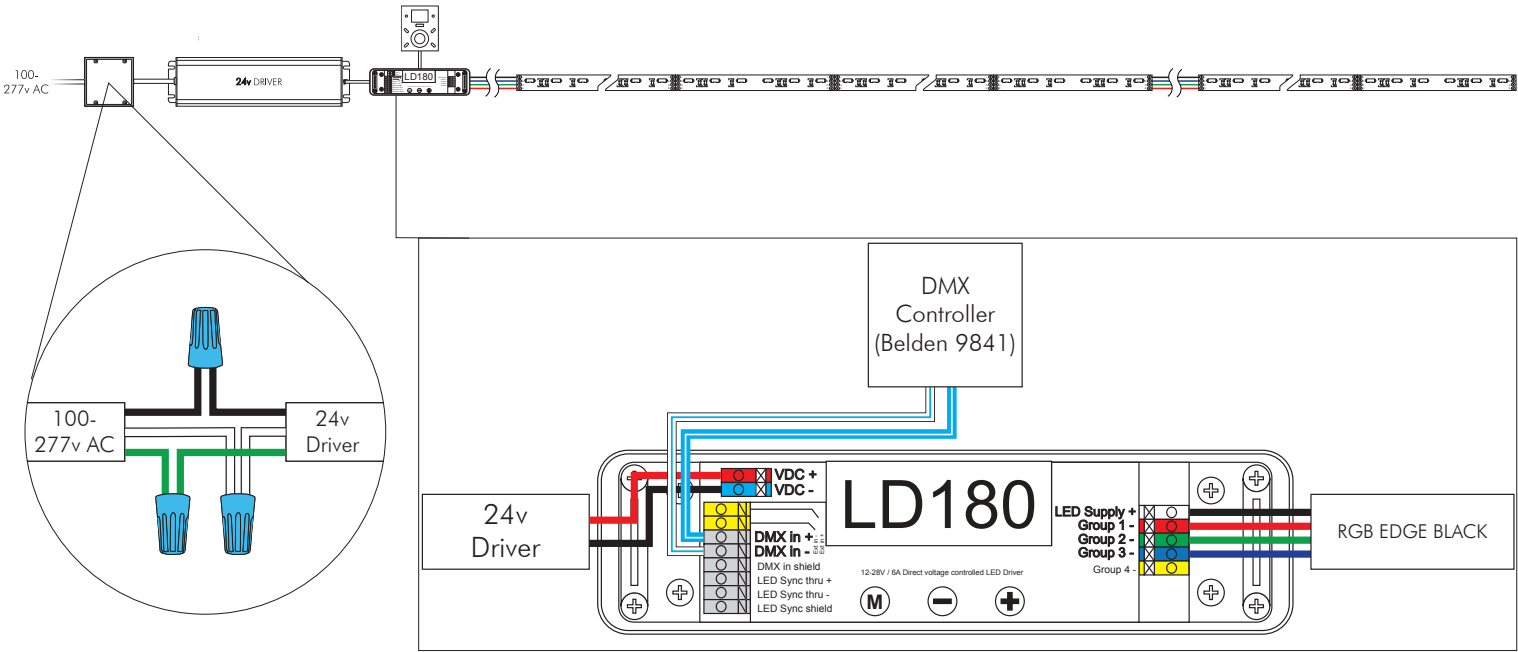
WIRING LEGEND

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

24v Driver
- Power Positive
- Power Negative

DMX CONTROLLER
- Positive
- Negative

Leader Cable
- 24v Positive
- Red
- Green
- Blue

MAX RUN

150w Driver	16' 4 4/5" (5m)

ACCESSORIES

MRTA55
10' Leader Cable

Connects RGB EDGE to Power Supply

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

MRTA56
4" Jumper Cable

Connects Two RGB EDGE and Allows for Flexible Corner Bends

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

MP17
100 - 277v AC

150w - IP67

L: 8 7/10" (222mm)
W: 2 7/10" (68mm)
H: 1 1/2" (39mm)

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
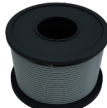
Constant Voltage LED Driver

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

BDL-9841-500FT

RS-458 Cable for DMX
24 AWG stranded TC conductors
polyethylene insulation

L: 500' (152.4m)

BDL-9841-1000FT

RS-458 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-EDG-B