

SparkFlex RGBW CV

| | |
|------------|-----------------|
| Issue Date | September, 2023 |
| Issued by | Malassise, V. |

Applications

- Office Linear Lighting
- Pendant Light
- Troffers
- Shelf Illumination
- Non-linear lighting application

Characteristics

- Trimmable every 4"
- Efficacy - up to 140 lm/W
- 05 years warranty
- 90 CRI



DRIVING SPECIFICATIONS

| Parameter | Voltage (DC) / Channel | Current (mA) / Channel |
|--------------------------------|------------------------|------------------------|
| SparkFlex RGBW CV (4 ft setup) | 24 V | 540 mA |
| SparkFlex RGBW CV (8 ft setup) | 24 V | 1.080 mA |

MODULE TEMPERATURES

| Parameter | Nominal | Max |
|------------------------------|---------|-------|
| Tc (temperature at Tc point) | 25 °C | 75 °C |

PRODUCT PART NUMBER

80498500100
RGBW

LED TYPE

Manufacturer: Hongli & Cree

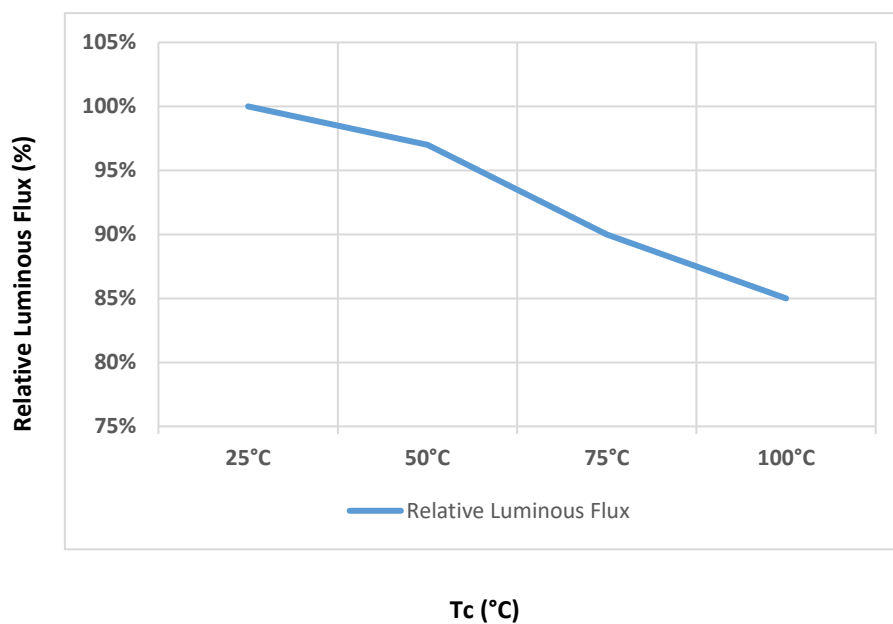
LED Series: 5050, 2835

TECHNICAL INFORMATION

| Channel | LED Driver Voltage (V) | # LEDs | Luminous Flux 4ft (lm) | Luminous Flux Density (lm/ft) | Forward Voltage (V) | LED Forward Current (mA) | Tc (°C) | Power 4ft (W) | Power Density (W/ft) | Efficacy (lm/W) |
|---------|------------------------|--------|------------------------|-------------------------------|---------------------|--------------------------|---------|---------------|----------------------|-----------------|
| RED | 24 | 96 | 409 | 102 | 24.0 | 20 | 75 | 11.2 | 2.8 | 37 |
| GREEN | 24 | 96 | 1,565 | 391 | 24.0 | 20 | 75 | 11.2 | 2.8 | 140 |
| BLUE | 24 | 96 | 373 | 93 | 24.0 | 20 | 75 | 11.2 | 2.8 | 33 |
| 2700K | 24 | 96 | 1,566 | 391 | 24.0 | 45 | 75 | 13.0 | 3.2 | 121 |

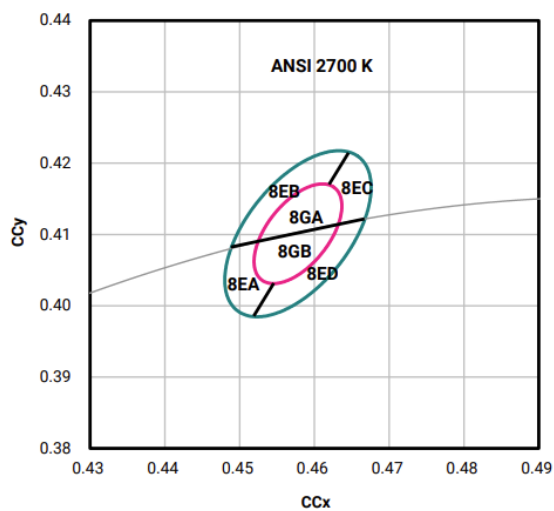
TECHNICAL GRAPHS

Luminous Flux (lm/4 ft) x Relative Intensity (%)



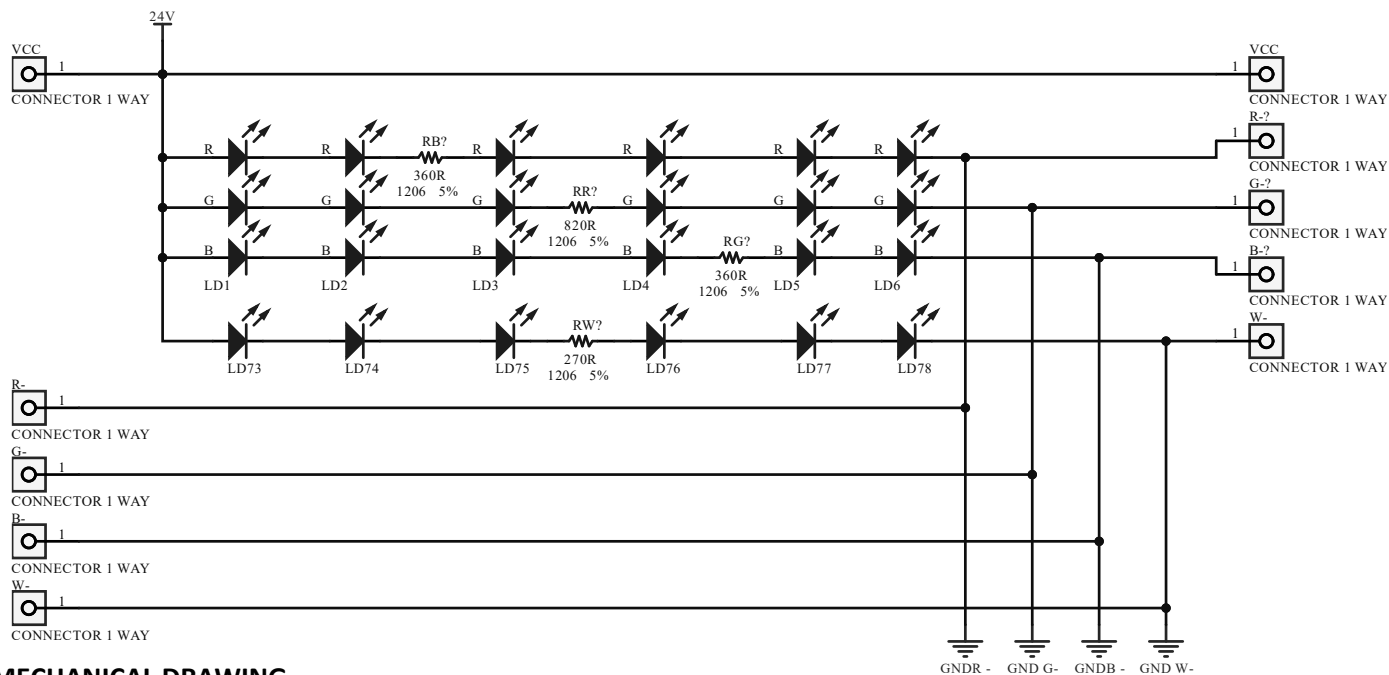
LED BINNING STRUCTURE

2,700K – 3 STEP BINS

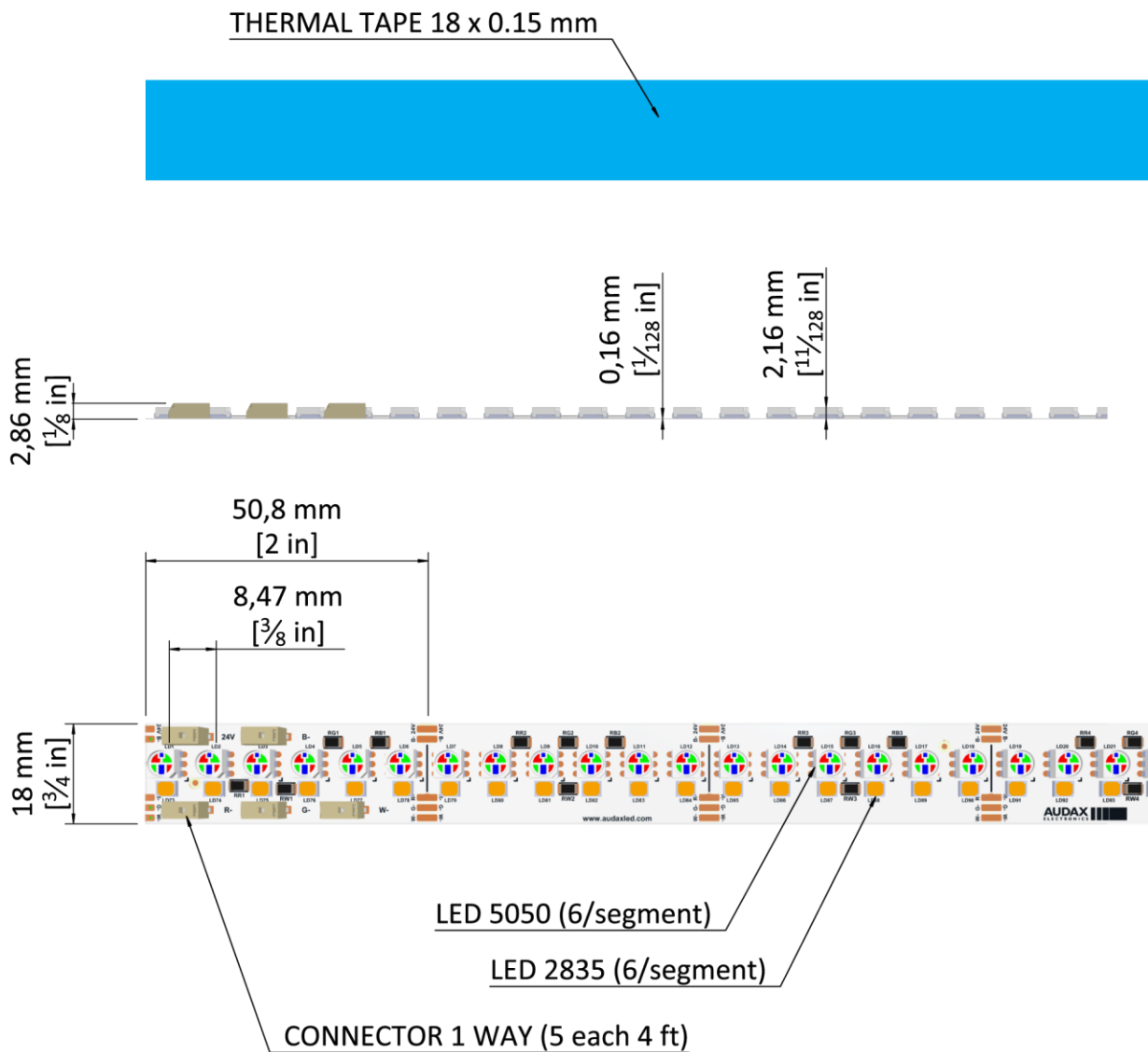


SCHEMATICS

Schematic for each segment (2''):



MECHANICAL DRAWING



THERMAL TAPE

Our THERMAL Tape® (made in Brazil) is a double-sided adhesive thermal interface tape with ultra-high adhesion strength which can be used to attach components and PCBs (Printed Circuit Boards) to heatsinks, eliminating the use of mechanical fixing components (i.e. screws, holders, etc.) ensuring low thermal resistance and optimizing the heat transfer.

| PART NUMBER | THICKNESS | THERMAL CONDUCTIVITY W/m*K | WORKING TEMPERATURE IN °C | THERMAL RESISTANCE IN °C*in ² /W |
|-------------|-----------|----------------------------|---------------------------|---|
| TT150 | 0.15 | >1.2 | 120 | 0.615 |

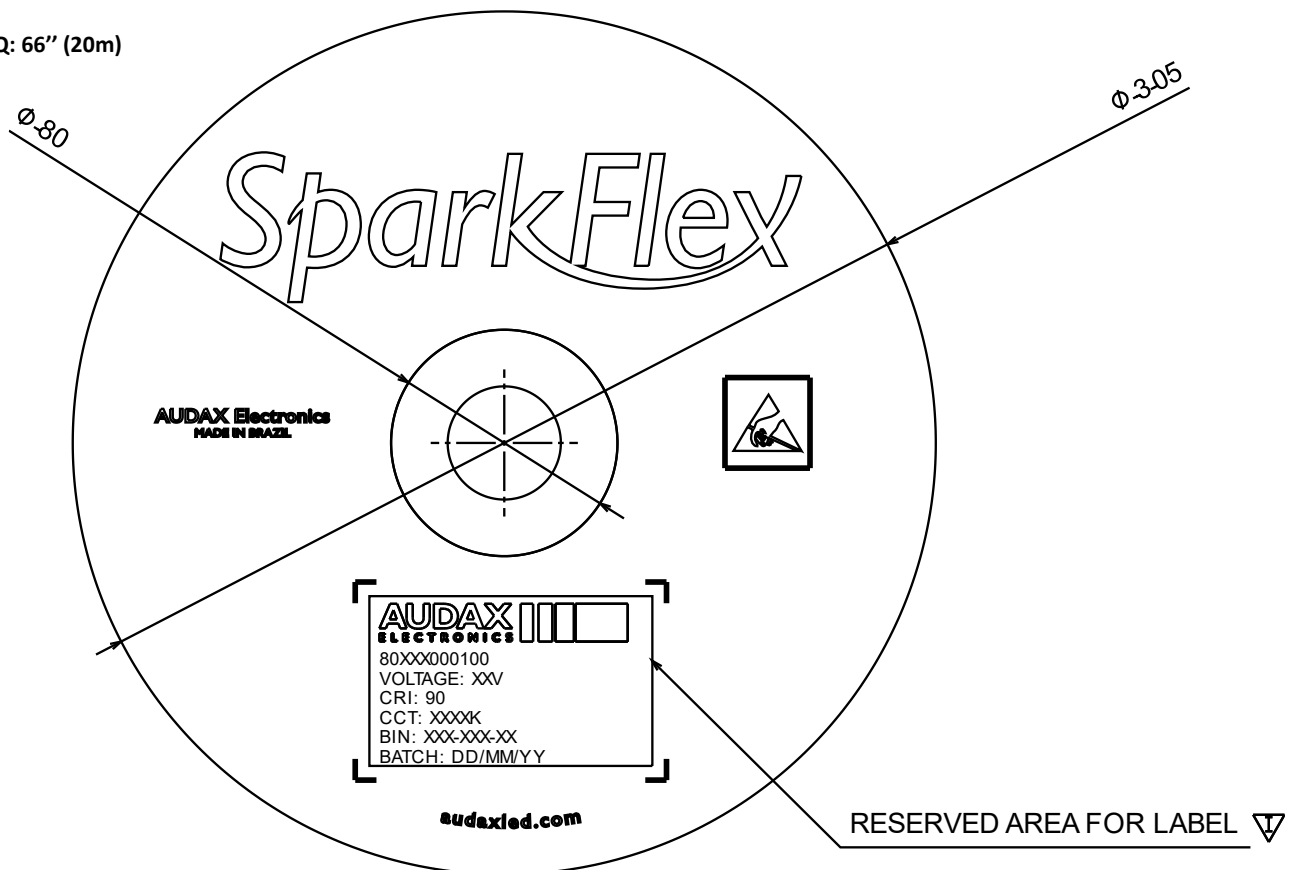
By:



PACKING

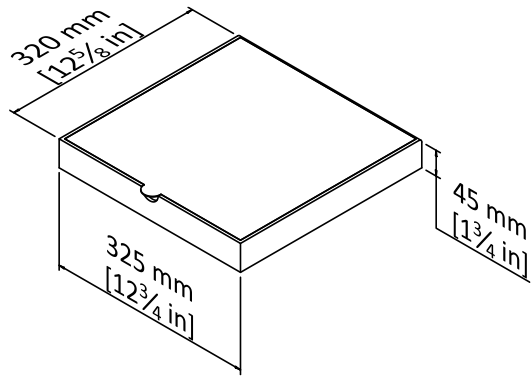
REEL 12" (305mm) diameter

MPQ: 66" (20m)



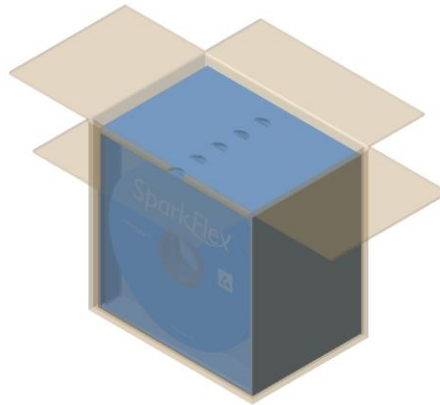
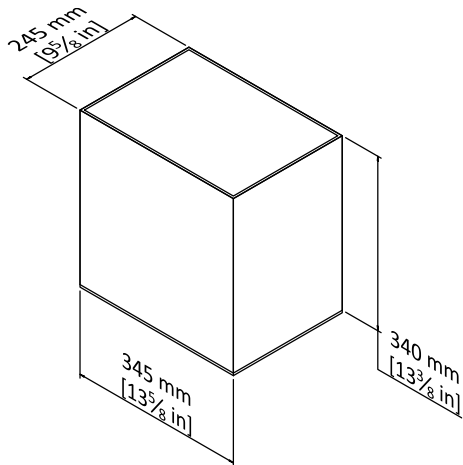
Packaging Detail
Scale:1:2

SINGLE CARDBOARD BOX

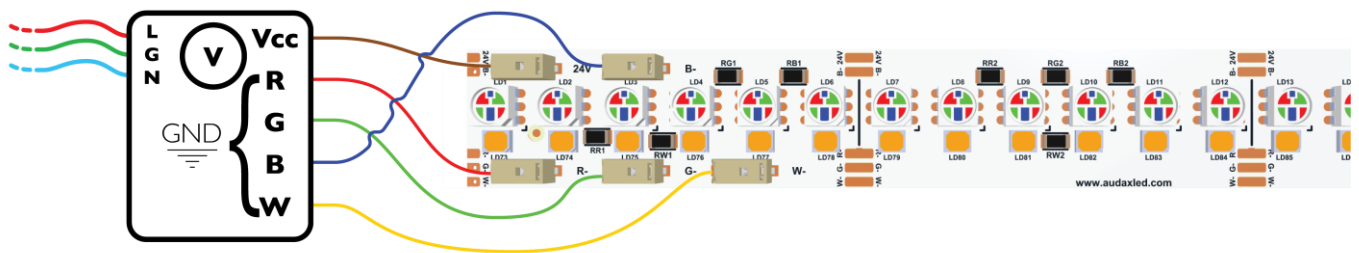


MAIN CARDBOARD BOX

Content – 5 reels



WIRING INFORMATION



CERTIFICATION



Conforms with UL8750