waveform lighting

# PN: 7021

## realUV™ LED Strip Lights

Waveform Lighting's realUV™ LED strip lights provide high power ultraviolet light at 365 nanometers or 395 nanometers. These wavelengths are considered true UV-A wavelengths, and are the optimal wavelengths for activating and observing fluorescence and other UV-A phenomenon.

The back side of the LED strip includes pre-applied 3M VHB® double-sided tape, which provides a simple but extremely strong adhesive mounting method for all of your projects.

The LED strips are 16.4 feet (5.0 meters) in length (also available as short 3.2 ft reels), and are conveniently reeled for quick and easy application, and can be cut to length every 1-inch (25 mm) with just a pair of scissors.

## FEATURES

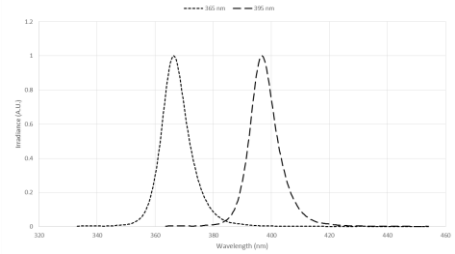
- Available in either 365 nm or 395 nm
- Available in either full reel (5 meter) or short reel (1 meter)
- 12V DC input
- Power consumption of 4.8 watts per foot (14 watts per meter)
- For indoor use only

## PHOTOMETRIC SPECIFICATIONS

| | |
|---|---|
| **UV output per ft (365 nm):** | 0.75 W |
| **UV output per ft (395 nm):** | 1.10 W |
| **Radiometric Efficiency (365 nm):** | 15% |
| **Radiometric Efficiency (395 nm):** | 22% |
| **Spectrum FWHM:** | 10 nm |
| **Emission angle:** | 120 deg |

Download full photometric reports at
https://www.waveformlighting.com/photometrics

## TYPICAL EMISSION SPECTRUM



## ELECTRICAL SPECIFICATIONS

| | |
|---|---|
| **Input type:** | Constant Voltage |
| **Input voltage:** | 12V DC |
| **Current draw per ft:** | 400 mA @ 12V DC |
| **Current draw per full reel:** | 6.5 A @ 12V DC |
| **Power draw per ft:** | 4.8 W @ 12V DC |
| **Power draw per full reel:** | 80 W @ 12V DC |
| **Max run:** | 16.4 ft (5 meters) |

## MECHANICAL SPECIFICATIONS (FULL REEL)

| | |
|---|---|
| **Length:** | 16.43 ft (5008 mm) |
| **Width:** | 0.394 in (10 mm) |
| **Height:** | 0.067 in (1.7 mm) |
| **LED spacing (OC):** | 0.327 in (8.3 mm) |
| **Cut-line spacing:** | 0.984 in (25 mm) |
| **PCB copper thickness:** | 4 oz |
| **Connection (both ends):** | Female DC 2.1 x 5.5 mm connector |

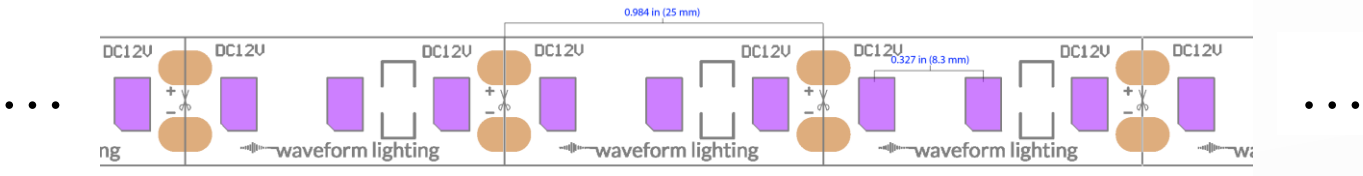
## POWER SUPPLY SELECTION

Compatible with Waveform Lighting PN 3091 or third-party 12V DC constant voltage power supply. If you choose to utilize a third-party power supply unit, you will need to ensure that the power capacity of the power supply is sufficient for the length of LED strip being connected. Use the table below to determine if the power supply is sufficient for your project.

| Length | Minimum Power Supply Capacity |
|---|---|
| **1 ft:** | 600 mA / 7 W |
| **3 ft:** | 1.8 A / 22 W |
| **6 ft:** | 3.6 A / 43 W |
| **9 ft:** | 5.4 A / 65 W |
| **12 ft** | 7.2 A / 86 W |
| **16.4 ft** | 9.0 A / 108 W |

| Length | Minimum Power Supply Capacity |
|---|---|
| **0.5 m:** | 900 mA / 11 W |
| **1.0 m:** | 1.8 A / 22 W |
| **2.0 m:** | 3.6 A / 43 W |
| **3.0 m:** | 5.4 A / 65 W |
| **4.0 m:** | 7.2 A / 86 W |
| **5.0 m:** | 9.0 A / 108 W |

## MECHANICAL DRAWING & DIMENSIONS




(This drawing is an excerpt that shows just three complete, cuttable sections. Each reel consists of 200 of these sections).

## PART NUMBERS AND ORDERING

| | |
|---|---|
| **365 nm short reel:** | 7021.65 |
| **395 nm short reel:** | 7021.95 |
| **365 nm full reel:** | 7021.65.5M |
| **395 nm full reel:** | 7021.95.5M |