A BUYER’S GUIDE TO FINDING YOUR LIGHT

CHOOSING THE RIGHT LIGHT FOR YOUR PROJECT
QUALITY OF LIGHT

Diode LED tape light is available in a wide variety of color temperatures, able to accurately replicate everything from traditional incandescent lighting to natural daylight. At every color temperature, Diode LED tape light is engineered for precise, true-to-life color rendering. Sources with poor color rendering will cause objects to appear dull and unsaturated or overly saturated and unnatural. Strict manufacturing processes and rigorous testing, outlined below, are used to guarantee that colors are rendered vibrantly and true.

WHITE LIGHT SPECTRUM

LED Lighting performance data comes in many forms. Diode LED relies on LM-79 Reports and TM-30 Metrics for photometric and performance evaluation of solid-state lighting products. The data is presented in a standardized and regulated formula by IES, the Illumination Engineering Society. This data covers many specifications including the items mentioned below.

LUMINOUS INTENSITY DISTRIBUTION
COLOR CHARACTERISTICS
EFFICACY
TOTAL FLUX
ELECTRICAL POWER

PHOTOMETRIC EVIDENCE

PRECISION MANUFACTURING

PRODUCTION OF DIODE LED TAPE LIGHT STARTS WITH TAILORED PHOSPHOR BLENDS AND 2 STEP BINNING FOR OPTIMAL PERFORMANCE AND SUPERIOR LIGHT QUALITY

LUMEN OUTPUT (LUX)
COLOR RENDERING INDEX (CRI)
CORRELATED COLOR TEMPERATURE (CCT)

STEP 1
STEP 2
STEP 3
STEP 4
HYPER BLUE LED CORE
PHOSPHOR COATING APPLICATION
SORTING & BINNING
PACKAGED & COMPLETED LED CHIP

To learn more, visit our website at www.DiodeLED.com/quality-of-light
**COMPUTERIZED MANUFACTURING VS. HAND MADE MANUFACTURING**

**PHOSPHOR APPLICATION.** Phosphor injection creates the most precise photometric output with state-of-the-art technology and yields less waste than traditional spray-coat methods.

**QUALITY CHECK.** LEDs are inspected by engineers for physical or electrical flaws and irregularities before the sorting process begins.

**SORTING & BINNING.** Each LED chip is sorted and measured by high-precision cameras and computer systems to collect LEDs into batches for accuracy of Correlated Color Temperature (CCT) and Color Rendering Index (CRI) measurements.

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**GREAT TAPE LIGHT STARTS WITH THE FOUNDATION**

Diode LED engineering and manufacturing delivers reliable, high-performing circuit boards offering industry-leading durability and features, including the market’s longest maximum run tape light and the most trusted warranty guarantee of 12 years.

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**DIODE LED TAPE LIGHT**

- **LED CHIP**
- **SECURE SOLDER LEG**
- **GREATER HEAT DISSIPATION**

**PURPOSE BUILT CIRCUIT BOARDS FOR VARIED AND SPECIFIC APPLICATIONS IN ALL ENVIRONMENTS**

**MATERIAL COMPOSITION**

- **diode led**
  - Longest max runs available up to 70 ft.
  - Consistent lumen output throughout tape light
  - Unrivaled heat dissipation

- **COMPETITION**
  - Max run 30 ft. average
  - Inconsistent lumen output
  - Pre-mature failure from lack of material quality

**MANUFACTURING PROCESS**

- **diode led**
  - Longest warranty available in the industry up to 12 years
  - Consistent CCT output throughout tape light
  - High build quality product = Less returns + Less cost

- **COMPETITION**
  - 7 years or less limited warranty
  - CCT output differs noticeable throughout tape light
  - Low cost product = Poor build quality + More returns

**INTERESTING FACTS**

- **diode led**
  - Designed by Diode LED’s Engineering Team from start to finish
  - Custom phosphor formulas for consistent CCTs
  - Quality control performed at all stages of manufacturing

- **COMPETITION**
  - Outsourced development with no control
  - Mystery raw materials for unknown reliability and performance
  - Quality control performed when in consumer’s hands
DIODE LED LINEAR LIGHT
A SELECTION OF GREAT LIGHTING FOR ALL APPLICATIONS

SPECIALTY LIGHTING (100–800 Lumen Range)

**BLAZE™ X**
12V/24V Tape Light

Provides precision color rendering and superior long-lasting performance at a high CRI with higher efficiency lumen outputs.

**VALENT® X**
24V Tape Light

Perfect diffusion with true-to-life color rendering and unbroken light. High lumen output.

**INFINILINE® X**
120V Strip Light

Plug-in or hardwire connections available up to 200 ft. Unparalleled UL certification and testing.

BASICS LIGHTING (100–200 Lumen Range)

**BLAZE™ BASICS**
12V/24V Tape Light

This new low voltage led lighting is optimal for indoor task lighting and display lighting. A value engineered contractor selection.

**SQUIGGLY™**
12V/24V Tape Light

Light complex projects like lettering and signage as well as modern architectural accents. Durable for tight bends.

INDOOR/OUTDOOR LIGHTING

**HYDROLUME® SLIM**
24V Strip Light

Submersible, field cuttable LED strip light that is UL 676 rated for pools and fountains. Available in solid white light or color changing RGB.

**NEON BLAZE™**
24V Tape Light

Diffused and saturated lighting from end to end that is excellent for superior indoor/outdoor lettering or accent lighting applications.