LIGHTING LEAF

# VERSATILE LIGHTING

SOLUTIONS FOR THE PRO CHANNEL

## We built what we couldn't find.

Lighting Leaf is professional LED tape lighting designed from the ground up by integrators — **superior build quality, factory-direct performance, and turn-key solutions** that install the way you actually work.

Exclusive to the professional channel.

**INSTALLER FOCUSED** | **PRO CHANNEL ONLY** | **BURN-IN TESTED** | **90+ CRI RATING**

## WHY INSTALLERS CHOOSE LIGHTING LEAF

### EFFORTLESS SELECTION

A streamlined portfolio built for pros — specify with confidence and zero complexity.

### INSTALLER-FOCUSED PRODUCTS

Solutions developed from installer feedback for quicker development, grounded in practical experience.

### EASY INSTALLATIONS

Every component — tape, connectors, controllers, and power built for quick, clean installs.

### CHANNEL EXCLUSIVE

Not found at retail. Buy Direct from the Factory — Keep the Margin.

## PRODUCT CAPABILITIES

### SMART CONTROLS

- All-in-1 controller manages every LED color type
- Ultra-slim power supplies hide anywhere
- Bluetooth + Wi-Fi auto-discovery for fast setup
- Full two-way drivers for 3rd-party integration
- Sub-1GHz RF in-wall — rock-solid responsiveness
- Push-to-Pair — no programming, just tap and go

### LED TAPE YOU CAN TRUST

- High CRI (90–95+) for premium light quality
- Burn-in tested 100% before every shipment
- Consistent color across jobs and reorders
- Dual-layer PCB — enhanced strength & flexibility
- Thick copper core — stable voltage, better heat
- 3M™ VHB adhesion — bond that won't fail over time

### ENGINEERED PERFORMANCE

- Next-gen LED chips — 2–3× higher efficacy
- High SDCM matching — batch-to-batch consistency
- Reliable solderless quick-connect ecosystem
- Factory direct — no markup, affordable quality
- Turn-key: tape to power to control
- Pro-channel exclusive — never sold at retail

## WHAT WE BUILD

**Factory Advantage**

8+ years of exclusive relationships in Asia, our model is based on partnership — not chasing the same catalog specs as everyone else. With tighter QC, faster development cycles, and solutions shaped by real installation experience, we achieve better consistency and meaningful advantages that benefit our dealers.

**Fewer Callbacks. More Confidence.**

Products designed for easier installation aren't just faster to put in — they're less likely to come back out.

## LIGHTING LEAF MILESTONES

- **2013** — LED products launched
- **2015** — LED company formed
- **2019** — Develop an all-DC system
- **2021** — Lighting Leaf rebrand
- **2023** — OEM design + Acquisition
- **2025** — Active IoT controls
- **2026** — Founders Buyback + PhosCore™



© 2026 Factory Direct LED LLC dba Lighting Leaf. All rights reserved. Products only available through authorized partners.

LIGHTING LEAF

# FLEXIBLE LIGHTING SOLUTIONS

Accent • Ambient • Task

# Accent • Ambient Illumination

Flexible LED Lighting disappears by blending into the environment it illuminates



REDUCE SHADOWS · IMPROVE WORKSPACE LIGHT · ENHANCE DESIGN ELEMENTS

## LIGHTING APPLICATION TYPES

### ACCENT LIGHTING

***Highlights features & aesthetics.***

Focuses light shape and output to draw attention, create visual interest or showcase architectural details while filling in shadows.



### AMBIENT LIGHTING

***Essential illumination.***

General lighting that provides visibility and comfortable brightness throughout a room. Can double as task lighting and includes artificial and natural sources.



### TASK LIGHTING

***Functional work lighting.***

Improves visibility in designated areas where specific tasks or activities are performed — kitchens, desks, vanities, workspaces.



## WHERE LED TAPE IS USED

| CABINETS | CEILING | FLOORING | SHELVING | BACKLIGHT |
|---|---|---|---|---|
| Above · Below · Inside | Recessed · Cove · Crown | Stairs · Toe Kick · Decking | Pantry · Bookshelves | Displays · Mirrors · Art |

## CORRELATED COLOR TEMPERATURE (CCT)

| 2700K | 3000K | 4000K | 5000K |
|---|---|---|---|
| Traditional<br>Relaxing | Common<br>Warm | Neutral<br>Balanced | Task<br>Alert Focus |

## HOW LED TAPE COVERS THE TOP TRENDS IN LIGHTING

### Put it on everything

Applied to surfaces along edges of walls, ceilings and floors. Often layered with other light sources for depth and effect.

### Enhance with layers

Light interacts with architecture, furniture, and décor to create depth rather than flat, uniformly-lit spaces.

### Entertain with color

Adds dynamic style to stimulate creativity or curate social scenes. Endless moods and combinations available.

### Perfect white + more

2700K–5000K plus extended color gamut through RGB+CCT 5-in-1 technology for any scene.

## GENERAL LIGHTING LEVELS

**Accent lighting –**
Provides a softer glow.

**Decorative lighting -**
Visual effect over brightness.

**Task lighting -**
Ensures a visible work surface.

**General lighting -**
Fills the entire room.

| Lighting Purpose | Brightness Level | Lumens per Foot | Typical Application |
|---|---|---|---|
| Soft accent glow | Low | 50–150 lm/ft | Toe-kicks, decorative shelves, night lighting |
| Ambient/accent | Medium-Low | 150–250 lm/ft | Accent coves, wall details, cabinets, display |
| Functional accent/task | Medium | 180–350 lm/ft | Under-cabinet kitchen lighting, bar areas |
| Strong task illumination | Medium-High | 350–450 lm/ft | Workspaces, vanities, garages, task lighting |
| General illumination | High | 400–600+ lm/ft | Primary room lighting, applications |



© 2026 Factory Direct LED LLC dba Lighting Leaf. All rights reserved. Products only available through authorized partners.

LIGHTING LEAF

# PRODUCT OVERVIEW

Five components make up every system

Every system is built from five essential components, each playing a crucial role.
This design simplifies both the selection process and installation, leading to a seamless, repeatable experience.

## COMPONENT 1



### 24VDC Constant Voltage

Converts AC from your wall outlet into safe, low-voltage. Two types: **Dimmable Driver** – for AC wall dimmers — and Non-Dimming **Power Supply -** paired with the LED controller for precise control. (DC Dimming)

## COMPONENT 2



### Controller Digital DC Processor

The brains of the system. Manages power to the LED tape and interprets signals from Control Devices. Built-in wireless — no hub required. Ultra-slim .75“. Use with Class 2 low-voltage cabling.

## COMPONENT 3



### Control Devices

Send commands to the controller — RF wall switches, smartphone apps, or IoT. Adjust brightness, color, and effects. Use one type or mix and match for multi-method control.

## COMPONENT 4




### LED Tape Single color or Multi-color

Wide range of fixed or variable colors and brightness levels. Each series is purpose-named for its best use — series features streamline selection, easier to sell and faster to install.

## COMPONENT 5



### Connectors

Join sections of tape or wires without soldering. IDC, Crimp, and Screw-down styles. Double-sided adhesive included. Match pin count to tape: 2-pin (single) up to 6-pin (RGB+CCT).

## WIRING (not sold by Lighting Leaf)



### Gauge and Conductor Count by Type

Select the correct gauge for your run length (22–16 AWG). Conductor count for LED tape type: Single-color: 2 | CCT: 3 | RGB: 4 | RGBW: 5 | RGB+CCT: 6


© 2026 Factory Direct LED LLC dba Lighting Leaf. All rights reserved. Products only available through authorized partners.

LIGHTING LEAF

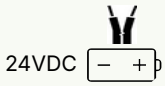
# POWER AND CONTROL TYPES

DC Control and AC Dimming

There are two distinct types of Power and Control used for LEDs
Choose the right power type for your control method — these two are not interchangeable.

## POWER AND CONTROL METHODS

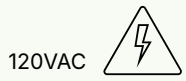
### WIRELESS DC DIGITAL CONTROL




Single Color or Multi-Color LED

- Uses a **Non-Dimming Power Supply** with a controller
- Controller manages dimming at the DC output level
- Required for all multi-color (RGB, CCT, RGBW) systems
- Not compatible with high-voltage AC wall dimmers
- Supports RF, Wi-Fi, Bluetooth, and IoT platforms

### 120VAC PHASE-CUT DIMMING




Single Color Only

- Uses a **Dimmable Driver** with AC dimmers (Lutron, etc.)
- Dimmer adjusts AC power before it reaches the driver
- Single-color tape only — no color control
- Simpler system with fewer components
- Familiar with standard electrical lighting

## DIMMING CONTROL OVERVIEW

**[120V AC] → [Power Supply] → [Controller] → [LED Tape]**
**(Smart PWM control)**

Key Advantages
- Control over any LED Color settings and effects
- Compatible with remotes, apps, and automation
- Consistent performance Flicker Free

Considerations - Easy, safe voltage placement
- Older homes are not wired, but easier to retrofit vs 120V

Best For:
- True LED Tape Control systems
- Color and dynamic lighting
- Pro-installations (hidden placement, remote powering)

**[120V AC] → [Wall Dimmer] → [Driver] → [LED Tape]**
**(Cuts power waveform)**

Key Advantages
- Traditional high-voltage lighting
- Easy to use with a light switch
- Simple design, limited parts

Limitations - Older technology (AC vs. DC)
- Can flicker at low dimming levels
- Compatibility issues between dimmer and driver

Best For:
- Static white lighting
- Small installations with limited placement options

## SIMPLE COMPARISON

| DC Microcontroller | Feature | AC Phase Dimming |
|---|---|---|
| Digitally control DC output | Control Method | Dim AC power |
| Low-voltage control architecture | Wiring Style | Traditional High-voltage Romex |
| Advanced LED systems | Best For | Basic white dimming |
| Excellent | Color Control | None |
| Excellent | Flicker Performance | Moderate |
| Extensive | Smart Features | Minimal |
| Very high | Precision | Lower |
| More advanced | Installation Complexity | Simple |

## INDUSTRY DIRECTION

Most modern architectural and premium LED systems are shifting towards DC-based microcontroller systems for several reasons:

•Improve dimming quality and extend the lifespan of the lighting.
•Align with technological demands for LED efficacy and control.
•Enable advanced color options and consistency.
•Reduce compatibility issues.
•Create a more scalable lighting ecosystem.

In contrast, older AC dimming remains a popular choice for residential applications due to its established history and

Three Primary AC Phase-Cut Dimming Types :

| Type | Edge Cut | Typical Load | Performance |
|---|---|---|---|
| MLV | Leading Edge | Magnetic transformers | Legacy – Poor |
| TRIAC / Forward Phase | Leading Edge | Incandescent / basic LED | Better |
| ELV / Reverse Phase | Trailing Edge | Modern LED drivers | Good |

| Part Number | Description | Application |
|---|---|---|
| DD-24V100WDIM | 24VDC 100-Watt 5-in-1 Dimmable Driver | Use with AC Dimmers |
| DD-24V300WDIM | 24VDC 300-Watt 5-in-1 Dimmable Driver | Use with AC Dimmers |

5-IN-1 Features: TRIAC/0-10V/1-10V/10V PWM/ resistance dimming. Dimming range 0-100%, dimming depth: Max 1%. Flicker-free IEEE 1789 high-frequency exemption. Cooling by free air convection.


© 2026 Factory Direct LED LLC dba Lighting Leaf. All rights reserved. Products only available through authorized partners.

# DC DIGITAL CONTROLS

Wireless • RF • Wi-Fi • IoT • Control4

An advanced all-DC microcontroller-based system that delivers precise digital dimming, smooth color tuning, and intelligent lighting effects. Ideal for modern low-voltage LED applications requiring accurate control, seamless transitions, and expandable smart features.

## CONTROLLER- MODULAR SCALABLE SYSTEM

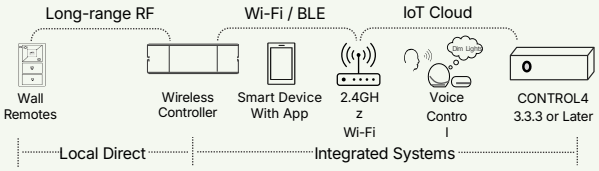
### Controller (All-in-1) Digital DC Processor

**RF-WIFI-CNTRL-5CH-4A**

- 3 built-in communications: RF + Wi-Fi + BLE
- Controls all LED types: Single, CCT, RGB, RGBW, RGB+CCT
- Push-to-Pair: no programming, just tap and go
- OTA firmware updates keep the system current
- Control4 & IoT compatible
- No hub required



### Signal Flow – System Architecture



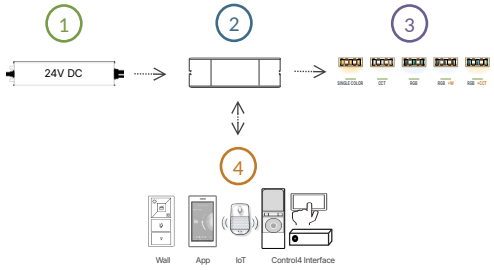

## SYSTEM OVERVIEW

**This section offers a brief description of how the main components work together**

### Power → Controller → LED Tape → Control Devices

- A single unified ecosystem
- A repeatable install methodology
- Scale from a standalone to an integrated control system
- Control devices can be mixed-use in any combination
- Multi-zone sync between multiple controllers
- Non-volatile memory

1 Power Supply
2 Controller
3 LED Tape
4 Control Devices




## CONTROL DEVICE FEATURES

**Stand-alone System**
Wall Control, Smart App, or both.

Bluetooth + Wi-Fi auto-discovery

**IoT Cloud Alexa / Google**

BLE / Wi-Fi 2.4GHz

**Control4 Integration**
3.3.3 or greater

Free 2-way driver / No DMX

**Sub-1GHz RF Long-Range**
Sub-1GHz

Rock-solid responsiveness

## RF IN-WALL CONTROL DEVICE OPTIONS

### WSR Remotes — Magnetic, Removable



**RF-WSR-SCDIM-BTR-WH**
Single Color Dimming Remote

**RF-WSR-CCT-BTR-WH**
CCT Tunable White Remote

**RF-WSR-RGB+W-BTR-WH**
RGB+W Color Remote

### DWS — Dual Switch, In-Wall Fixed



**RF-DWS-RGB+W-BTR-WH**
RGB+W Dual Wall Switch

**RF-DWS-RGB+CCT-BTR-WH**
RGB+CCT Dual Wall Switch

## WIRELESS DC DIGITAL CONTROL — COMPLETE SKU LIST

| Part Number | Description | Application |
|---|---|---|
| PS-24V200WND | 24VDC 200-Watt Power Supply Non-DIM | Use with the controller only |
| RF-WIFI-CNTRL-5CH-4A | RF+WiFi, IoT Controller — All-in-1 | DIM, CCT, RGBW, RGB+CCT Any LED Tape |
| RF-WSR-CCT-BTR-WH | RF Wall Switch/Remote, CCT Tunable | Use with CCT Tunable White LED Tape |
| RF-WSR-RGB+W-BTR-WH | RF Wall Switch/Remote, RGB+W | Use with RGB or RGBW LED Tape |
| RF-WSR-SCDIM-BTR-WH | RF Wall Switch/Remote, Single Color | Use with any Single-color LED Tape |
| RF-DWS-RGB+CCT-BTR-WH | RF Dual Wall Switch, RGB+CCT | Use with RGB+CCT LED Tape |
| RF-DWS-RGB+W-BTR-WH | RF Dual Wall Switch, RGB+W | Use with RGB or RGBW LED Tape |


© 2026 Factory Direct LED LLC dba Lighting Leaf. All rights reserved. Products only available through authorized partners.

LIGHTING LEAF

# LED TAPE SERIES GUIDE

Choose your series by application • Single-color & Multi-color

Each series has distinct product design features.
The series name and description convey its best use and lighting application.

***Pro Design Tip: Utilize product features to simplify selection — making sales and installations easier.***

## SINGLE-COLOR LED TAPE SERIES

### E-SERIES
EFFICIENT

**General use accent** light. Ideal for subtle accent applications, under-cabinet, and decorative lighting. IP67 available.



### X-SERIES
EXTENDED

**Long-range continuous light** up to 80 ft (40 ft reel). Engineered for long runs without added power injection. IP67 available.



### D-SERIES
DEFINITION

**True vibrant color,** perfect light, 95+ CRI. High lumen with superior color rendering for premium interior environments.



### R-SERIES
RADIANCE

**Seamless beam** of light. Radiance technology delivers smooth, dot-free illumination.
IP67 Available.



### IC-SERIES
INFINITE CUT

**Cuttable anywhere**, flawless everywhere. Cut at any point without losing function. Ideal for custom lengths and complex installations.



## MULTI-COLOR LED TAPE SERIES

### R-RGB & CCT SERIES
RADIANCE RGB & CCT

**Seamless beam of color** with PhosCore™ Hybrid technology. Delivers smooth, continuous color without hot spots or banding. 3-pin / 4-pin connection. IP67 available.

### CCT SERIES
TUNABLE WHITE

**2700K warm to 6000K daylight** with 90+ CRI. Circadian-supportive / human-centric light or for scene-setting installations. 3-pin connection.

### RGB+W SERIES
RGB PLUS WHITE

**Color plus dedicated warm white** channel. Delivers vibrant color and clean 3000K white in a single tape. 5-pin connection.

### RGB+CCT SERIES
5-IN-1 ALL-IN-ONE

**Full RGB plus tunable white** in one tape. Achieve any color plus 2700K–6000K white. Most versatile option. 6-pin connection.

## TAPE PART NUMBER DECODER

**Example Part #: R-24NB303.0**

- **R** = Series (Radiance)
- **24** = Voltage (24V DC)
- **NB** = Brightness (Normal Bright)
- **30** = Color Temp (3000K)
- **3.0** = Watts per Foot

*(XX) = 2-digit CCT code: 27=2700K, 30=3000K, 40=4000K, 50=5000K*
*IP67 versions noted at end of part number (e.g. R-24NB303.0IP67)*

## CCT QUICK REFERENCE

| | |
|---|---|
| **2700K Traditional** | Warm, relaxing glow — ideal for residential, hospitality. |
| **3000K Common** | Warm-neutral, widely used for kitchen and accent lighting. |
| **4000K Neutral** | Balanced neutral white for offices and retail environments. |
| **5000K Task** | Cool, alert-focus. Best for task areas and commercial. |

## LED TAPE SERIES REFERENCE

| COLOR TEMPERATURE OPTIONS BY SERIES | | | | | TAPE MEASUREMENTS | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **Series** | **2700K** | **3000K** | **4000K** | **5000K** | **Lumen/FT** | **Cut Point** | **Width** | **Watts/FT** | **Max/FT** |
| IC-Series | n/a | * | n/a | n/a | 178 | .65" | 10mm | 1.5 | 33 |
| E-Series | * | * | * | * | 150 | 1.97" | 10mm | 1.5 | 32 |
| E-Series IP67 | n/a | * | n/a | n/a | 150 | 1.97" | 12mm | 1.5 | 32 |
| X-Series | n/a | * | n/a | n/a | 130 | 1.97" | 10mm | 1.5 | 80 |
| X-Series IP67 | n/a | * | n/a | n/a | 120 | 1.97" | 12mm | 1.5 | 80 |
| D-Series NB | * | * | * | n/a | 360 | 3.94" | 10mm | 4.4 | 16 |
| D-Series SB | * | * | * | n/a | 605 | 2.81" | 10mm | 5 | 16 |
| R-Series | * | * | * | * | 380 | 1.64" | 10mm | 3 | 16 |
| R-Series IP67 | n/a | * | n/a | n/a | 360 | 1.64" | 10mm | 3 | 16 |
| RGB+W 3000K | n/a | * | n/a | n/a | 250 | 6.56" | 12mm | 4.4 | 16 |
| R-CCT Series w/PhosCore Tunable White 2700-6000k | | | | | 384 | 1.96" | 10mm | 4.4 | 16 |
| R-RGB Series & IP67 w/PhosCore | | | | | 150 | 1.96" | 10/12mm | 4.4 | 16 |
| CCT Tunable White 2700K-6000K | | | | | 430 | 3.28" | 10mm | 6 | 16 |
| RGB+CCT RGB Plus Tunable White | | | | | 400 | 3.28" | 12mm | 10.5 | 10 |



© 2026 Factory Direct LED LLC dba Lighting Leaf. All rights reserved. Products only available through authorized partners.

LIGHTING LEAF

# FLAGSHIP TECHNOLOGY

PhosCore™ HD-SMD CP • IC Infinite Cut Series™ • CoreTech™ Partner Program

Two flagship innovations from the Lighting Leaf CoreTech™ partner program—built to solve the **trade-offs installers face every day**: durability vs. seamless light, fixed cuts vs. perfect fit.

HD-SMD CP TECHNOLOGY

## PhosCore™

Hybrid Continuous Phosphor

*Engineered at the Core. Seamless by Design*




**Better than COB**
**Durable Install**
**Dot-less Light**

***SMD Strength • COB Smoothness • Zero Compromise***

This hybrid technology combines the structural strength of high-density SMD architecture with a continuous phosphor layer to provide dot-free lighting designed for real-world installation conditions.

**R-24RGB4.4** — Radiance RGB
*Seamless beam of color — full-spectrum mixing with added amber & white*

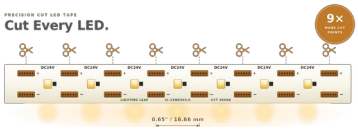
**R-24CCT4.4** — Radiance CCT **NEW**
*Seamless tunable white — 2700K–6000K, 90+ CRI, circadian-supportive*

**150–384 lm/ft • 4.4 W/ft • 1.96″ cuts**

PRECISION CUT LED TAPE

## IC Infinite Cut™

Cuttable Anywhere, Flawless Everywhere




**Cut where the job needs it — not where the factory decided.**

***Cut Every LED • Zero Waste • Perfect Fit***

Precision LED tape designed for professionals who need exact lengths, consistent light, and faster installs. Cut anywhere - no dark spots, gaps, scraps, or stubs left in the van.

**IC-24NB301.5** — Single Color 3000K
*Replaces E-24NB301.5 — the upgrade path for warm-white accent work*

**Pro Design Tip**
*Spec IC-Series for any cabinet or cove with sub-foot dimensions, non-modular layouts, and intricate architectural details where fixed-cut tape falls short.*

**178 lm/ft • 90+ CRI • 138 lm/W • .65″ cuts**

LIGHTING LEAF • CoreTech™ PARTNER PROGRAM

## Installer Tested Factory-developed

Where field experience shapes product innovation — turning what you learn on the job into a better product, built at the source.

Every product limitation is discovered the same way in the field, by the person installing it. CoreTech™ connects experienced installers directly with our factory engineers, so the problems you find on the job become the products we build next.

### 1 Field-Driven

Ideas come from real installs — not competitor spec sheets.

### 2 Engineer-Built

Submissions are reviewed and refined by factory engineering.

### 3 Made at the Source

Developed from your feedback, manufactured where it's built.

**OUR GOAL**

**Develop products based on real-world installer needs — refined through engineering, manufactured at the source.** We're not here to copy competitor specs. We're here to solve the problems those specs created. That field knowledge is our best R&D — and this program is how we put it to work.



*Lighting Leaf is operated independently by its founder under Factory Direct LED LLC.*

© 2026 Factory Direct LED LLC dba Lighting Leaf. All rights reserved. Products only available through authorized partners.

LIGHTING LEAF

# DESIGN YOUR SYSTEM

Find Your Light • Application matrix & online configurator

Selecting LED tape doesn't have to be confusing. Use our online configurator for recommendations or check the application matrix below to find the right series, controls, and power for your project.

ONLINE PRODUCT CONFIGURATOR

## Find Your Light.

*Five quick questions. A specific kit recommendation. No guesswork.*

USE THE CONFIGURATOR

**lightingleaf.com /configurator**

*Share it with your client to scope a project*

## THE FIVE QUESTIONS THAT SPEC THE KIT

**01 — WHERE**
Indoor or outdoor?
*Defines IP-rating need*

**02 — ENVIRONMENT**
Dry or wet?
*Bath, kitchen, soffit, etc.*

**03 — COLOR**
Single, multi, or tunable?
*RGB, RGBW, RGB+CCT, CCT*

**04 — TEMPERATURE**
2700K / 3000K / 4000K / 5000K?
*Warm to daylight*

**05 — USE**
Accent, ambient, or seamless?
*Match watts to purpose*

## APPLICATION → RECOMMENDED SERIES

### Under-Cabinet
*Kitchen task & glow*

**IC or E-Series**
3000K • 150 – 178 lm/ft
*Low-profile, efficient*

### Cove / Soffit
*Continuous ceiling line*

**X-Series eXtend**
80 ft/run, 3000K
*Or R-Radiance for seamless*

### Toe-Kick & Stairs
*Floor-level accent*

**IC Infinite Cut**
Cut every LED
*Perfect fit, zero waste*

### Vanity & Mirror
*Color-accurate grooming*

**R-CCT Tunable**
2700–6000K, 90+ CRI
*Circadian-supportive*

### Cabinet Interior
*Display & glass shelving*

**IC or E-Series**
Cut-to-fit or low-profile
*Match shelf depth*

### Accent & Color
*Mood, art, statement*

**R-RGB Radiance**
PhosCore™, seamless
*Dot-free RGB*

### Bathroom / Wet
*Bath, kitchen splash, exterior*

**IP67 — any series**
Encased silicone
*Submersion-resistant*

### Whole-Room Smart
*Tunable + color in one*

**RGB+CCT 5-in-1**
Most versatile
*6-pin connection*

## BUILD A COMPLETE SYSTEM — DON'T LEAVE COMPONENTS OFF THE BID

LED Tape → Connectors → Power Supply / Driver → Controller → Remote / App

## QUICK REFERENCE — PRO TIPS

**01 — POWER SUPPLY SIZING**

**Total W = W/ft × run length**

Add 20% headroom, round up.

*10 ft × 4.4 W/ft = 44 W → 60 W supply*

**02 — MAX SINGLE-RUN LENGTH**

**E / IC / R Series: ~16 ft**

X-Series eXtend: up to 80 ft.

*Beyond max: inject power at midpoint*

**03 — CONNECTOR PIN COUNT**

**2-pin: Single color**

3-pin: CCT • 4-pin: RGB

*5-pin: RGB+W • 6-pin: RGB+CCT*



© 2026 Factory Direct LED LLC dba Lighting Leaf. All rights reserved. Products only available through authorized partners.

All LED Tape features:
authentic 3M VHB™ Acrylic Foam Adhesion Tape. *It sticks - It stays!*
16.4 FT/Roll, IP20-rated unless noted. Specifications may vary with updated releases

| SINGLE-COLOR LED TAPE AND CONNECTORS | |
|---|---|
| **Part Number** | **Description** |
| * NEW* **IC**- Series Infinite Cut 178L 1.5W | |
| IC-24NB301.5 | IC-Series Infinite Cut 3000K 178L 1.5W |
| **E-Efficient** Series multipurpose light 130-150L 1.5W | |
| E-24NB271.5 | Efficient Tape 2700K |
| E-24NB301.5 | ^ 3000K Superseded by IC-24NB301.5 ^ |
| E-24NB401.5 | Efficient Tape 4000K |
| E-24NB501.5 | Efficient Tape 5000K |
| **X-eXtend** Series up to 80 feet continuous 110-130L 1.5W (40-FT reel). | |
| X-24NB301.5 | eXtend Tape 3000K |
| Connectors 2PIN compatible with: E \| X \| IC Series | |
| T-T2P | Tape-to-Tape 2PIN Connector 10mm 10pcs |
| T-W2P | Tape-to-Wire 2PIN Connector 10mm 10pcs |
| ST-T-W2P | Screw Terminal Tape-to-Wire 2PIN Connector 10mm 10pcs |
| **D-Definition** Series Normal Brightness CRI 95+ 300-360L 4.4W | |
| D-24NB274.4 | Definition Tape 2700K |
| D-24NB304.4 | Definition Tape 3000K |
| D-24NB404.4 | Definition Tape 4000K |
| **D-Definition** Series Super Brightness CRI 95+ 550-605L 5.0W | |
| D-24SB275.0 | Definition Tape 2700K |
| D-24SB305.0 | Definition Tape 3000K |
| D-24SB405.0 | Definition Tape 4000K |
| Connectors 2PIN compatible with all series: E \| X \| IC \| D \| R | |
| HDT-T2P | High Density Tape-to-Tape 2PIN Connector 10mm 10pcs |
| HDT-W2P | High Density Tape-to-Wire 2PIN Connector 10mm 10pcs |
| **R-Radiance** Series (Single-Color) Seamless beam of light 300-380L 3W | |
| R-24NB273.0 | Radiance Tape 2700K |
| R-24NB303.0 | Radiance Tape 3000K |
| R-24NB403.0 | Radiance Tape 4000K |
| R-24NB503.0 | Radiance Tape 5000K |
| Connectors Radiance 2PIN | |
| R-T-TFWB2P | Radiance Tape-to-Tape Flex Wire Bridge 2PIN Connector 10pcs |
| R-T-T2P | Radiance Tape-to-Tape 2PIN Connector 10pcs |

IP67-rated Waterproof version (Encased) LED tape in a fully sealed matte finish, flexible silicone extrusion. High humidity or moisture is not submersible.

All single-color tape: 90+ or 95+ CRI • ≤2-step SDCM color matching • Advanced binning selection surpassing industry chromaticity standards



© 2026 Factory Direct LED LLC dba Lighting Leaf. All rights reserved. Products only available through authorized partners.

All LED Tape features:
authentic 3M VHB™ Acrylic Foam Adhesion Tape. *It sticks - It stays!*
16.4 FT/Roll, IP20-rated unless noted. Specifications may vary with updated releases

| MULTI-COLOR LED TAPE AND CONNECTORS | |
|---|---|
| **Part Number** | **Description** |
| R-Radiance CCT Series Tunable White Seamless w/PhosCore | |
| R-24CCT4.4 | Radiance Tunable White Tape 24V 384L 4.4 W 16.4FT IP20 |
| Connectors Radiance CCT 3PIN | |
| R-CCT-T-T3P | Radiance CCT Tape-to-Tape 3PIN Connector 10pcs |
| R-CCT-T-TFWB3P | Radiance CCT Tape-to-Tape Flex Wire Bridge 3PIN Connector 10pcs |
| R-Radiance RGB Series Seamless color w/PhosCore | |
| R-24RGB4.4 | Radiance RGB Tape 24V 150L 4.4 W 16.4FT IP20 |
| Connectors Radiance RGB 4PIN | |
| R-RGBT-T4P | Radiance RGB Tape-to-Tape 4PIN Connector 10pcs |
| R-RGBT-TFWB4P | Radiance RGB Tape-to-Tape Flex Wire Bridge 4PIN Connector 10pcs |
| R-RGBT-WL4P | Radiance RGB Tape-to-6" Wire Lead 4PIN Connector 10pcs |
| RGB+CCT Series | |
| RGB+CCT24SB10.5 | RGB+ Tunable White Tape 24V 400L 10.5W 16.4FT IP20 |
| Connectors RGB+CCT 6PIN | |
| RGBCCT-T-W6P | RGB+CCT Tape-to-Wire 6PIN Connector 10pcs |
| RGBCCT-T-T6P | RGB+CCT Tape-to-Tape 6PIN Connector 10pcs |
| CCT Series Tunable White | |
| CCT-24NB3.0-5.5 | Tunable White Tape 24V 210-430L 3-6W 16.4FT IP20 Bag |
| Connectors CCT 3PIN Tunable White | |
| CCT-T-W3P | CCT Tape-to-Wire 3PIN Connector 10mm 10pcs |
| CCT-T-T3P | CCT Tape-to-Tape 3PIN Connector 10mm 10pcs |
| RGB+W Series 3000k | |
| RGB-W-24NB304.4B | RGB+W Tape 24V 80-250L 3000K 4.4W 16.4FT IP20 Bag |
| Connectors RGB+W 5PIN | |
| RGBW-T-W5P | RGBW Tape-to-Wire 5PIN Connector 12mm 10pcs |

| IP67 WATERPROOF LED TAPE AND CONNECTORS | |
|---|---|
| **Part Number** | **Description** |
| Waterproof R-Radiance Series 3000K IP67 | |
| R-24NB303.0IP67 | Waterproof Radiance Tape 3000K IP67 |
| R-WP67-T-W2P | Radiance IP67 Tape-to-Wire 2PIN Connector 10PCS w/cable & glue |
| R-WP67-T-T2P | Radiance IP67 Tape-to-Tape 2PIN Connector 10pcs w/glue |
| Waterproof X \| E-Series 3000K IP67 | |
| X-24NB301.5IP67 | Waterproof X-eXtend Series 3000K (40-foot reel) IP67 |
| E-24NB301.5IP67 | Waterproof E-Efficient Series 3000K IP67 |
| WP67-T-W2P | IP67 Tape-to-Wire 2PIN Connector 10mm 10pcs w/glue |
| WP67-T-T2P | IP67 Tape-to-Tape 2PIN Connector 10mm 10pcs w/glue |
| Waterproof Multi-Color Radiance RGB Series | |
| R-24RGB4.4IP67 | Radiance RGB Tape 24V 150L 4.4 W 16.4FT IP67 |
| For Waterproof Connectors use Standard Radiance RGB 4PIN w/WP67 CAP Pack | |
| Waterproof End Cap and Glue (use on all IP67 Tape) | |
| WP67 CAP Pack | IP67 5pcs silicon end cap and wire cap w/glue |

IP67-rated Waterproof version (Encased) LED tape in a fully sealed matte finish, flexible silicone extrusion. High humidity or moisture is not submersible.

All single-color tape: 90+ or 95+ CRI • ≤2-step SDCM color matching • Advanced binning selection surpassing industry chromaticity standards


© 2026 Factory Direct LED LLC dba Lighting Leaf. All rights reserved. Products only available through authorized partners.

All LED Tape features:
authentic 3M VHB™ Acrylic Foam Adhesion Tape. *It sticks - It stays!*
16.4 FT/Roll, IP20-rated unless noted. Specifications may vary with updated releases

## CONTROL AND POWER

| Part Number | Description |
|---|---|
| Power Supply | |
| PS-24V200WND | 24VDC 200-Watt Power Supply Non-DIM (use w/ RF-WIFI Controller) |
| Dimmable Driver | |
| DD-24V100WDIM | 24VDC 100-Watt 5-in-1 Dimmable Driver (use w/120vac dimmers) |
| DD-24V300WDIM | 24VDC 300-Watt 5-in-1 Dimmable Driver (use w/120vac dimmers) |
| 24VDC Wired Dimmer | |
| IWD-3W100WW | In-Wall Dimmer 24VDC 3-Way (use w/ 24vdc power only) |
| Controller / Remote / Switches | |
| RF-WIFI-CNTRL-5CH-4A | RF+WIFI, IoT Controller, DIM, CCT, RGBW, RGB+CCT |
| RF-WSR-CCT-BTR-WH | RF In-Wall Magnetic Removable Remote. For CCT Tunable White |
| RF-WSR-RGB+W-BTR-WH | RF In-Wall Magnetic Removable Remote. For RGB / RGBW |
| RF-WSR-SCDIM-BTR-WH | RF In-Wall Magnetic Removable Remote. For Single Color |
| RF-DWS-RGB+W-BTR-WH | RF Dual Wall Switch. For RGB/ RGB+W. (not removable) |
| RF-DWS-RGB+CCT-BTR-WH | RF Dual Wall Switch. For RGB+CCT. (not removable) |

## RECESSED DOWNLIGHT

| Part Number | Description |
|---|---|
| MT-CLR1042420 | 4" Tunable White 10W 24V Recessed Downlight IP20 |
| MT-CLR942420 | 4" 3000K 9W 24V Recessed Downlight IP20 |

| TAPE SERIES | TAPE MODEL # | PINS | WIDTH | CONNECTOR PART # | CONNECTION TYPE | TERMINATION TYPE |
|---|---|---|---|---|---|---|
| E / IC / X Series | E / IC / X-24NBxx1.5 | 2 | 10mm | T-T2P | Tape-to-Tape | Pierce-to-contact (IDC) |
| * | * | * | * | T-W2P | Tape-to-Wire | Pierce-to-contact (IDC) |
| * | * | * | * | ST-T-W2P | Tape-to-Wire | Screw Terminal |
| * | * | * | * | HDT-T2P | Tape-to-Tape (High Density) | Pierce-to-contact (IDC) |
| * | * | * | * | HDT-W2P | Tape-to-Wire (High Density) | Pierce-to-contact (IDC) |
| E / X Series IP67 | E / X -24NBxx1.5IP67 | * | * | WP67-T-T2P | Tape-to-Tape IP67 | Waterproof |
| * | * | * | * | WP67-T-W2P | Tape-to-Wire IP67 | Waterproof |
| D Series (HD) | D-24NBxx / D-24SBxx | 2 | 10mm | HDT-T2P | Tape-to-Tape (High Density) | Pierce-to-contact (IDC) |
| * | * | * | * | HDT-W2P | Tape-to-Wire (High Density) | Pierce-to-contact (IDC) |
| CCT Series | CCT-24NB3.0-5.5 | 3 | 10mm | CCT-T-T3P | Tape-to-Tape | Pierce-to-contact (IDC) |
| * | * | * | * | CCT-T-W3P | Tape-to-Wire | Pierce-to-contact (IDC) |
| RGB Series | RGB-24NB304.4 | 4 | 10mm | RGB-T-T4P | Tape-to-Tape | Pierce-to-contact (IDC) |
| * | * | * | * | RGB-T-W4P | Tape-to-Wire | Pierce-to-contact (IDC) |
| RGBW Series | RGBW-24NB304.4B | 5 | 12mm | RGBW-T-W5P | Tape-to-Wire | Pierce-to-contact (IDC) |
| RGB+CCT Series | RGB+CCT24SB10.5 | 6 | 12mm | RGBCCT-T-T6P | Tape-to-Tape | Pierce-to-contact (IDC) |
| * | * | * | * | RGBCCT-T-W6P | Tape-to-Wire | Pierce-to-contact (IDC) |
| Radiance (Single Color) | R-24NBXX3.0 | 2 | 10mm | R-T-T2P | Tape-to-Tape | Crimp Down |
| * | * | * | * | R-T-TFWB2P | Flex Wire Bridge | Crimp Down |
| Radiance IP67 | R-24NB303.0IP67 | * | 10mm | R-WP67-T-T2P | Tape-to-Tape IP67 | Waterproof |
| * | * | * | * | R-WP67-T-W2P | Tape-to-Wire IP67 | Waterproof |
| Radiance RGB | R-24RGB4.4 | 4 | 10mm | R-RGBT-T4P | Tape-to-Tape | Crimp Down |
| * | * | * | * | R-RGBT-TFWB4P | Flex Wire Bridge | Crimp Down |
| * | * | * | * | R-RGBT-WL4P | Tape-to-6" Wire Lead | Crimp Down |
| Radiance RGB IP67 | R-24RGB4.4IP67 | * | * | WP67 CAP Pack | Cap Kit use w/R-RGB connectors | Waterproof |
| Radiance CCT Tunable | R-24CCT4.4 | 3 | 10mm | R-CCT-T-T3P | Tape-to-Tape | Crimp Down |
| * | * | * | * | R-CCT-T-TFWB3P | Flex Wire Bridge | Crimp Down |

IP67-rated Waterproof version (Encased) LED tape in a fully sealed matte finish, flexible silicone extrusion. High humidity or moisture is not submersible.

All single-color tape: 90+ or 95+ CRI • ≤2-step SDCM color matching • Advanced binning selection surpassing industry chromaticity standards



© 2026 Factory Direct LED LLC dba Lighting Leaf. All rights reserved. Products only available through authorized partners.