METROSPEC TECHNOLOGY®

Trusted Manufacturer of Patented FlexRad® High-Intensity Light Circuits

MetroSpec Tehnology® manufactures custom FlexRad LED light circuits exclusively for light fixture manufacturers needing the best efficiency, highest reliability, and most cost-effective solutions.

Partnership

Metrospec Technology is more than a supplier. We consider ourselves a partner in your campaign to win more projects. Our ability to quickly design a new circuit combined with the flexibility and numerous design options FlexRad offers will enable you to customize your fixtures to meet the needs of almost any project.

Speed and Efficiency

We understand the urgency of orders and the need for quick product delivery. Because we maintain a complete inventory of critical components, MetroSpec is able to fulfill custom orders to exact specifications on a timely basis.

Customers Control Their Own Designs

Our customers have complete control over their products. Private-label LED designs and LED light sources are never discontinued or changed without direction.

Strong Stable Supplier

MetroSpec has been producing high quality circuits in the LED industry for over a decade. Our manufacturing plant has increased significantly in size and we have added several new patents. MetroSpec continues to increase its market share in the architectural market.

FlexRad®

Breakthrough Technologies

4TONE®

Multi-Tone, High-Intensity, Chip Scale

LINEAR360™

Bend from Straight to Curve in One Circuit

DUAL DIRECT®

Bi-Directional, Two-Sided, Two-Channel

DIM2TONE™

Simple Dimming, Single Control

MetroSpec Technology®, LLC
2401 Pilot Knob Road, Suite 108
Mendota Heights, MN 55120
Phone 651.452.4800 • Fax 651.452.4805
www.metrospectech.com

Made in the U.S.A.
using highest quality LEDs.

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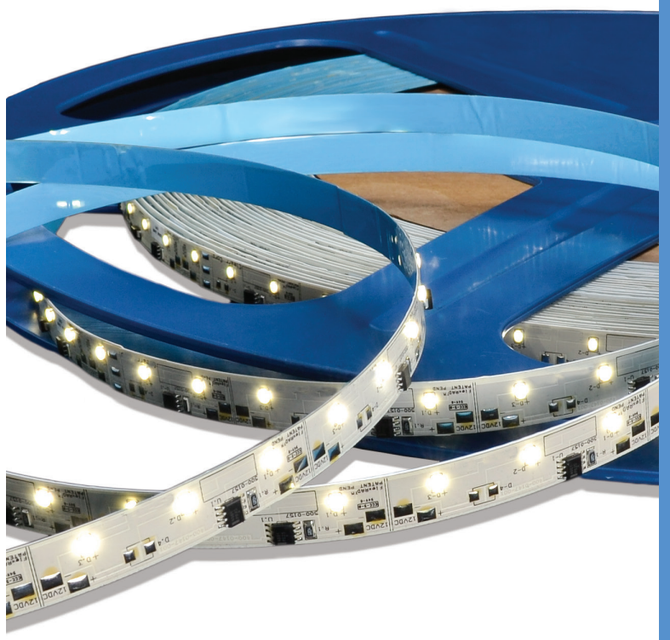
Architectural • Commercial/Office
Industrial • Retail • Hospitality

Exclusively for Light Fixture Manufacturers

METROSPEC TECHNOLOGY®

FlexRad®

Superior LED Light Circuit Technology



High-Performance, Flexible Circuits
Superior Heat Dissipation
Reel and Trim Capability
Patented, Private-Label, Custom Designs

Reliability

Our industry leading seven-year warranty is a testament to the fact that a FlexRad circuit is one of the most reliable light engines available in the market today. Our seven-step inspection process results in near zero defects year after year. Our circuits are designed with TVS protection which provides defense against Electrostatic Discharge (ESD) during the assembly process and helps with diagnosing issues in the field.

Expertise

Our staff of experienced engineers can guide you through the complicated process of circuit design. Our experience allows us to provide advice and recommendations based on tried and true practices. You will make the final decision on the circuit, but our support is always there if needed.

Performance

A FlexRad circuit is capable of producing nearly twice the light with a circuit that is less than half the width of a standard FR4 board. Combined with our unique ability to dissipate heat, you can design a high performing fixture with a smaller and narrower heatsink, saving costs and improving fixture aesthetics.

Training

MetroSpec provides training on the proper installation method of FlexRad circuits and recommended soldering techniques. Training sessions cover several topics including handling, installation and inspection suggestions to help your team become efficient at producing fixtures more quickly than other solutions.

Made in America

FlexRad circuits are “Made in the U.S.A.” with highest quality LEDs. We have a newly expanded main manufacturing facility and an alternate facility north of the Twin Cities.

FlexRad®

Superior LED Light Circuit Technology

FlexRad® technology is designed specifically for the lighting industry. Fixture manufacturers can quickly and economically design custom LED fixtures using field-proven, high-quality FlexRad solid state lighting technology. MetroSpec Technology® patents establish FlexRad as the simplest high-output, and most cost effective linear LED light source on the market.

High-Performing Flexible Light Circuits

FlexRad field-proven designs provide the greatest output and efficiency in the smallest sizes when compared to other light engines available in the marketplace. High wattage capacity is achieved in half the width of other technologies. FlexRad can help move you toward today's trend of smaller and narrower fixtures.

Reel and Trim Capability

High-wattage, flexible, reel and trim packaging technology allows FlexRad to be cut at individual circuit lengths to longer, continuous lengths. FlexRad circuits are available for customized or standard fixture applications shipped in custom lengths, full continuous reels or as pucks and arrays. One circuit design cut to any length can fulfill your needs to fit any number of fixtures.

Superior Heat Dissipation

FlexRad's thermal adhesive provides uniform surface contact between the heat sink and emitter allowing superior heat dissipation. Longer emitter life provides lasting fixtures installed in the field.

Exceptional Performance at Low Cost

FlexRad lighting solutions deliver higher light output performance compared to earlier metal-clad and FR4 solutions. Light output is intensified dramatically without compromising product life as more current can be driven through our design. FlexRad's unique patented design allows you to trim your circuit to almost any length eliminating the need for board-to-board connectors, wires or fasteners. Fewer components combined with a more efficient installation process will reduce your assembly costs.

MetroSpec Technology® offers a comprehensive selection of FlexRad® product solutions:

METROSPEC TECHNOLOGY®

Cut2FIT™

- Customizable fixture lengths
- Uniform end-to-end light source
- Continuous lengths eliminate connectors and wiring
- Excellent dimming control
- Slot, Task, Cove, Rail, Under Cabinet

LUXEDGE®

- Powerful ultra-narrow LED light circuit
- Impeccable uniformity of light
- Precise fit into any fixture
- Simple and reliable installation
- Signage, Commercial/Office, Hospitality, Retail, Entertainment, Architectural

T-LINEAR®

- No fasteners, harnesses or connectors
- Replaces two T5HO with one strip
- Instant-on lighting with no flickering or dimness
- 70% more focused light at 110 degrees
- Task, Troffer, Retrofit Kits, High Bay, Any T5 or T8

FreeAir®

- Self-cooling, no heat sink needed
- Easy installation and replacement
- Cuttable for great fit and performance
- Lowest cost, ultimate design simplicity
- Cove/Under Cabinet, Pendant/Sconce, Troffer, Slot

HASHTAG®

- Cut-to-shape, uniform light grid
- Continuous grid system eliminates connectors & wires
- Fill large areas with consistent, even light distribution
- Quicker and simpler installation
- Drum Fixtures, Large Area Fill, Signage, Shapes

2TONE™

- Tunable white application
- Expand on existing product lines
- Increase product value
- Multiple color options from one circuit
- Architectural, Slot, Cove, Hospitality

DUALLY®

- 5,000 lumens per foot
- Powerful and easy to install
- Bi-level switching reduces costs
- Reduced inventory and installation time
- High Bay, Wall Packs, High-Output Indirect

WAVE®

- Curvilinear solution
- Able to fill unique patterns and shapes
- Wide range of arc options available
- Can be paired with linear solutions
- Sconces, Residential, Architectural, Shapes

LINEAR360™

- Unique capability to curve in plane
- Light engine allows straight to curve in one circuit
- Reliable, high-output circuit with trimmable lengths
- Large Radius Rings, Mixed Curve & Linear, Flushmount Round, Round/Curved Slots or Arc'd

DIM2TONE™

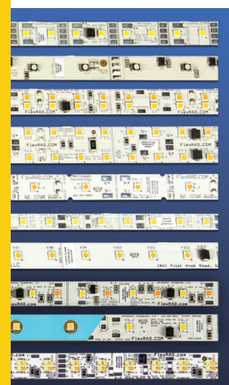
- Single channel power supply
- Controllable by simple dimming wall switch
- Does not require separate controller
- Emulates CCT change in dimming
- Tone and color shifting by illumination level
- Cove, Under Cabinet, Sconce, Wall Wash, Slot

DUAL DIRECT®

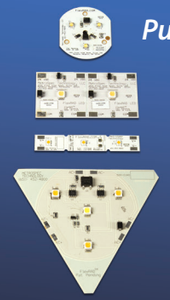
- Project light in opposite directions
- LEDs populated on both sides of circuit
- Two-channel circuit on single LED light engine
- Separately controlled
- Direct/indirect, Slot, Accent, Sconce, Wall Wash

4TONE®

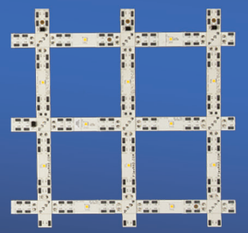
- Extremely versatile multi-color strip
- Chip Scale technology for high pixel density
- RGBW, multi-tone white or any combination
- Trimmable, one-half inch wide circuit
- Independent controls
- Cove, Slot, Indirect, Exterior



Static Color
RGB
2Tone™
Dually®
Cut2Fit™
LuxEdge®
TLinear®
Dim2Tone™
DualDirect®
4Tone®

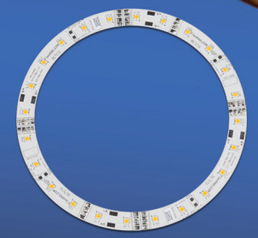


Pucks

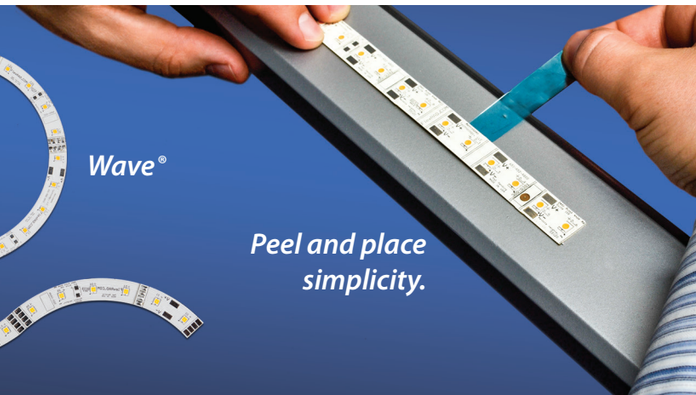


Hashtag®

Linear360™



Wave®



Peel and place simplicity.