



Case Study – Xeelum MagFit LED Fixtures Installed at C&W Embroidery



C & W Embroidery, one of the nation's largest contract embroidery firms and located in an 85,000 square foot facility in Rienzi, Mississippi, is a family-owned and woman owned business enterprise. It has 62 Tajima embroidery machines, 515 embroidery heads, over 140 employees and maintains the capacity for embroidery of over 5.0 million logos annually.

Manager/Owner, Chris Carnell decided it was time to cut energy cost and improve overall plant illumination by replacing the existing fluorescent fixtures with far more efficient and higher quality LED lighting. He contacted Zach Moore of Southern LED Solutions to help determine the solution that best fit the needs of the C & W facility and, after considerable product research, the unique **Xeelum MagFit LED luminaire** was selected.

Zach Moore stated, "We considered the MagFit to be the best all-around solution because each existing troffer remains in place, being used only as a location to which the MagFit tubes are attached with powerful magnets and optional screws. Each MagFit comes with a simple 2-wire harness for the electrical hook-up to the incoming AC power lines. Installation is quick and the final result is terrific."

He added, "The existing plant illumination consisted of 614 fixtures, each containing two 8-foot, 80 watt fluorescent tubes, for a total of 1,228 such tubes. A key feature of the MagFit is that it is actually a DLC listed and ETL certified per UL1598 LED fixture in the form factor of an LED tube. Our light study showed that two 28 watt 4-foot units could be used to replace the two 8-foot T12 fluorescent tubes in each of the fixtures and still provide superior illumination with greatly reduced energy consumption. Most importantly, the two least reliable elements, the ballast and the tombstone connectors, are removed from the circuit."

Carnell said, "The quality of the lighting is excellent and there was virtually no disruption to operation during installation of the fixtures." He added, "Annual energy consumption was reduced by approximately 257 thousand kilowatt-hours, which results in an energy and maintenance savings of over \$39,000 annually and a 5-year ROI of 697%. These savings will pay for the new fixtures in less than 8 months. We are all extremely happy with this great new lighting."

About Xeelum

Xeelum is an engineering based manufacturer of lighting and electronic products. With over 30 years of industry experience, our manufacturing facility is an ISO 9001-2008 certified operation with facilities in Boynton Beach, Florida and Shenzhen, China. Xeelum is a member of the Design Light Consortium (DLC). For more information about Xeelum and to view its entire [product catalog](#), visit www.xeelum.com.