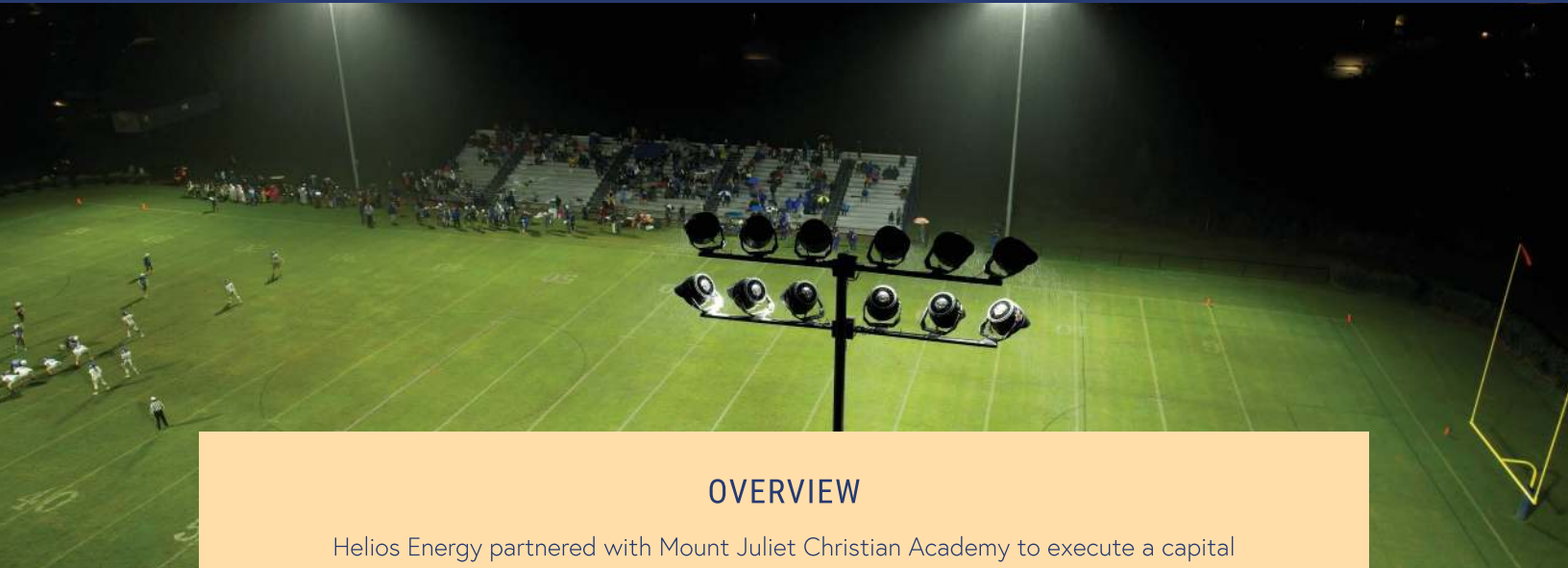


Mount Juliet Christian Academy



OVERVIEW

Helios Energy partnered with Mount Juliet Christian Academy to execute a capital improvement project that would replace all existing sports lighting at the football complex following the destruction of the property in a 2020 tornado that devastated greater-Nashville.

CHALLENGE

Replace and upgrade all sports lighting for the MJCA football field ensuring that it meets all TN State standards for school sports fields, surpasses hurricane wind standards, and delivers unprecedented customization and control for ease of use.

Need 1: Meet and exceed hurricane standards, to withstand any significant weather that may hit the area in the future. This includes wind gusts of more than 115 mph.

Need 2: Meet Tennessee regulatory standards set for lighting photometric at high school sports facilities. For football, the standard is a target of 30-foot candles. However, the Helios Team established a minimum standard for this solution of 50-foot candles.

Need 3: Add a stand-alone mesh network, independent controls system that could be used without WIFI (no gateway or access to the internet required) so the end-user has complete control, remotely from an app that can be used anywhere within the facility.

SOLUTION

Highly engineered solution which incorporated 48 fixtures, across (4) 70-foot poles which are rated to withstand up to 115 mph. These advanced LED fixtures are under warrantee for 7 years with Helios, which results in a substantial reduction in maintenance costs.

Based on photometric readings, all Tennessee-State photometric standards were far exceeded with the solution, with over 55.57 Fc in the endzones, 25.74 Fc in the perimeter, and 68.48 Fc on the playing field!

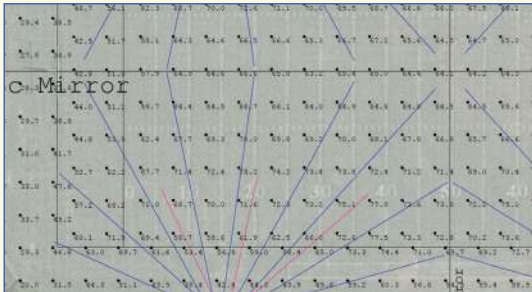
The lighting solution established a mesh network using technology by Synapse, which allows coaches, administrators, and facility maintenance staff to manage on-field lighting at the touch of a button. Making control even more convenient, the Synapse system can be managed at any location, without WIFI, allowing for ultimate ease in usability and customization.

Mount Juliet Christian Academy



The Helios Energy™ Impact

- Drastically reduced overall maintenance costs and time for DCA administration and staff
- Notably improved environmental impact as old fixtures were all metal halide and all newly installed are LED



48 total fixtures installed atop 70-foot poles around the football complex.

(Quantity - 36) 1250W Sports Light, 25 DEG (represented in blue)

(Quantity – 12) 1250W Sport Light, 60 DEG (represented in red)

Located fifteen minutes from Nashville, Tennessee, Mt. Juliet Christian Academy (MJCA) is a private Christian school that is a ministry of First Baptist Church Mt. Juliet. The church and school sit on 54-acres of land less than one mile from Interstate 40. MJCA opened its doors in 1979 with grades 1-3. An additional class was added yearly until 1989 when the first class graduated from MJCA. We desire to partner with families in developing students to think, lead, and live based upon a biblical worldview. As a college-preparatory school that serves over 670+ students in PK-1 through 12th grade, we extend a variety of opportunities through numerous academic, fine arts, and athletic programs, including a formal leadership academy. Founded in 1979, MJCA is celebrating over 40 years of providing a quality, biblically-based education to greater Mt. Juliet.

Guided by our mission, we approach education with the goal of "Enriching Minds, Engaging Hearts, and Equipping Hands" with excellence for the glory of God! Rigorous curriculum, including advanced placement courses, are all taught within a biblical worldview framework. Active learning in every classroom meets the highest academic standards while holding a strong, Christ-centered foundation.

We partner with our parents in their commitment to raising Godly children, with the earnest desire to see our students fully put their hope in the Lord. We take this responsibility incredibly seriously, and we consider it our calling and our honor to serve our MJCA families in this manner.



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