

DOMESTIC LED PROJECT

Mitchell Stadium - Bluefield, WV



OVERVIEW

LED retrofit of stadium lighting, installation of new underground electrical conduit & wire, electrical panels, utility transformers, and full wireless lighting control system creating full RGB-W dynamic lighting scenes.

CHALLENGE

To replace the 30+ year old entire sports lighting system and the entire electrical infrastructure supplying power to the 6 metal towers ranging in height from 55' to 110' in height. Dig and install over 1200' of underground electrical conduit and wire, 6 power and control panels, and coordinate the installation of new utility transformers.

Need 1: Replace aged and failing field lights

Need 2: Install completely new electrical service

Need 3: Raise foot candles from 25 to 75

Need 4: Eliminate lighting maintenance

Need 5: Provide full color spectrum lighting from every fixture and dynamic lighting scenes to music

SCOPE OF PROJECT

In total, 80 high cost of energy & maintenance fixtures were replaced and 80 full Red, Green, Blue & White (RGB-W) SportsBeams™ LED sports lighting fixtures. The SportsBeams™ fixture is the only one in the world capable of delivering both glare-free, white sports lighting and full color spectrum light from same platform. 540 of these fixtures went live on the same night at the Philadelphia Eagle stadium that these 80 lights filled Mitchell Stadium for the first time.

- Replaced 80, 1500W antiquated Metal Halide fixtures
- Remove all associated electrical wiring, panels, and ballasts
- Dug 1200' linear feet of underground trenches & installed new conduit & wire
- Installed new electrical & control panels, new transformers & electrical service
- Installed & commissioned wireless & DMX controls for every light in the stadium
- Improvement of Average Foot Candles on the playing field as follows:

Average Foot Candles Mid-Field
Average Foot Candles Sidelines
Average Foot Candles End Zones

Before = 28 Fc	After = 87 Fc
Before = 32 Fc	After = 93 Fc
Before = 20 Fc	After = 78 Fc



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The Helios Energy™ Impact

The new lighting has instilled a new sense of pride for the Bluefield High School, Bluefield University, and Bluefield State College athletes, coaches, and fans that share this 10,000+ seat stadium that was originally built in 1935. The City of Bluefield is in the hunt again to bring the WV State High School Championship game to Mitchell Stadium, and having an overall average of 82.7 foot candles of white light, and the full color spectrum of lights available for fan entertainment, make Mitchell Stadium one of the best lit athletic venues in the entire state of West Virginia.

TESTIMONIALS

“The change in the lighting levels on the playing surface is remarkable and the color capability is a game changer for Bluefield football!”

– Cecil Marson- City Manager- Bluefield, WV

“These lights are amazing! I can't wait until our first home game to show these off to our fans and potential football recruits considering Bluefield University.” – Dewey Lusk - Head Football Coach Bluefield University Rams

