

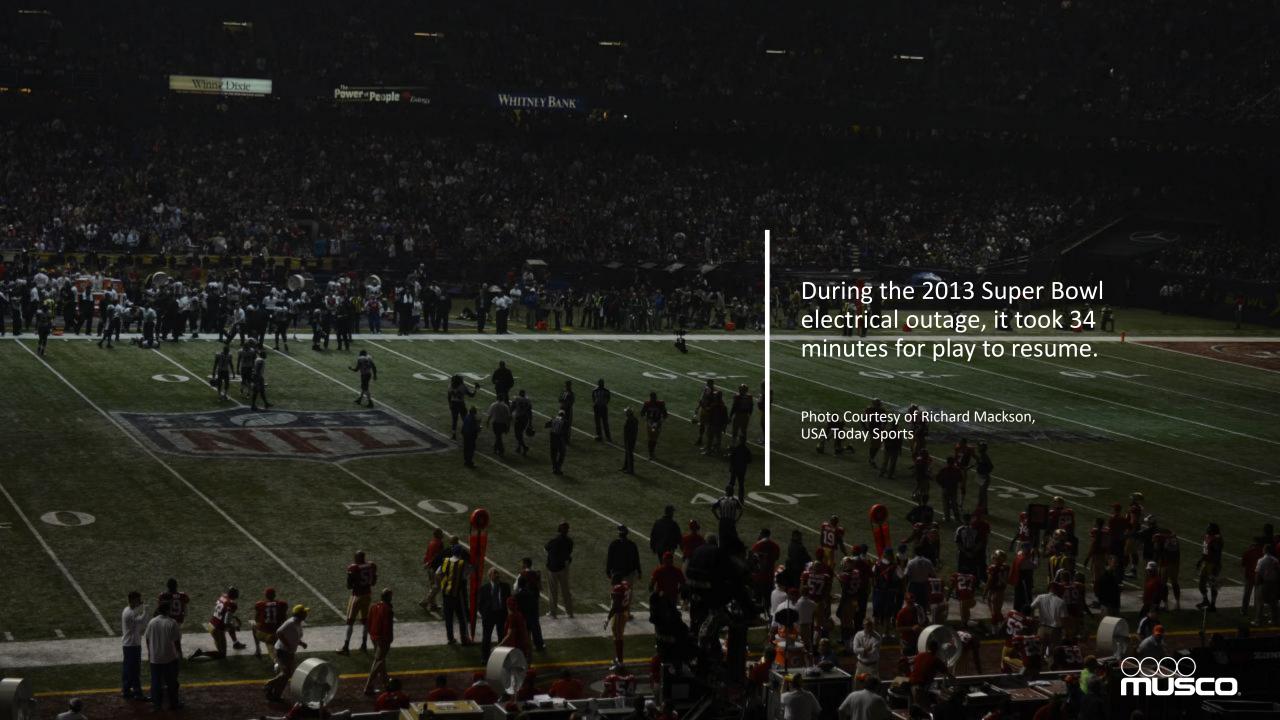
Trends in Sports Lighting



TREND 1 Emergence of LED for Sports Lighting

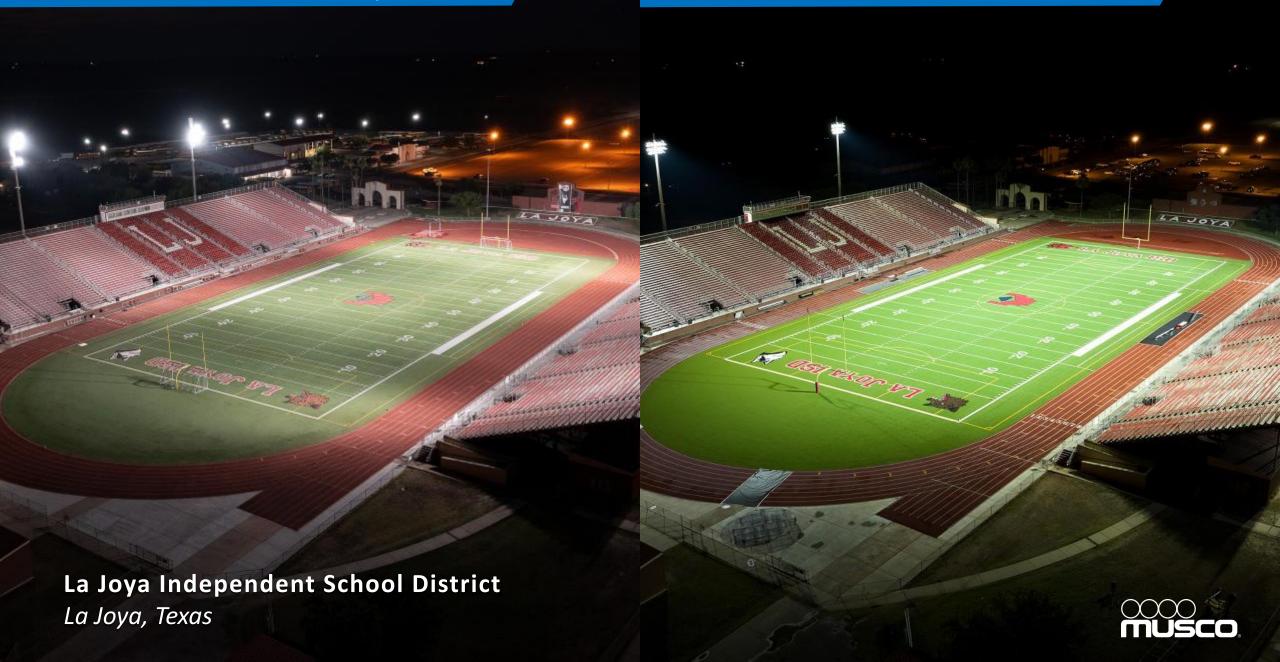
Potential LED Benefits





BEFORE: PREVIOUS HID EQUIPMENT

AFTER: MUSCO LED SYSTEM



LED

Popularized for sports lighting in the past decade





Electrical current passing through a microchip causes tiny diodes to glow.



Advantages

Instant, energy efficient, cost-effective, long lifespan



Limitations

Technology itself doesn't guarantee lighting performance and reliability



TREND 2 LED Opportunity

Rewards and Risks





Performance and Reliability

Service and Warranty

System vs. Fixtures





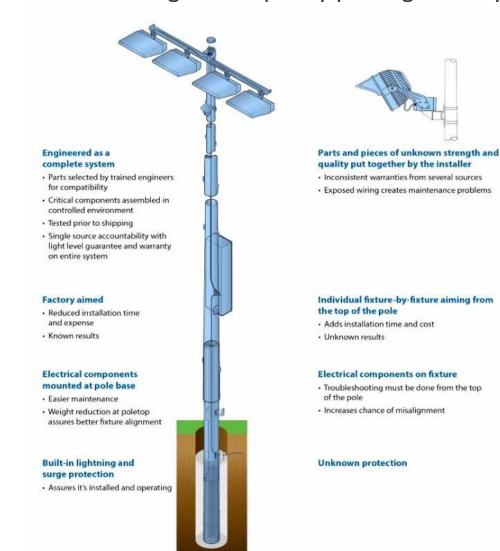
Systems Approach vs Parts and Pieces

Other manufacturers offer parts, disparate pieces of unknown strength and quality put together by the

installer or general contractor.

Implications for Parts Approach

- Inconsistent warranties from multiple sources
- Increased installation time and cost
- Exposed wiring can create maintenance problems
- Higher probability of pole misalignment threatens system integrity and results
- Individual fixture aiming from top of pole builds costs and likelihood of error
- Non-remote drivers mean troubleshooting must be done from the top of the pole, creating more hassle and expense



BEFORE: PREVIOUS LED EQUIPMENT



AFTER: MUSCO LED SYSTEM



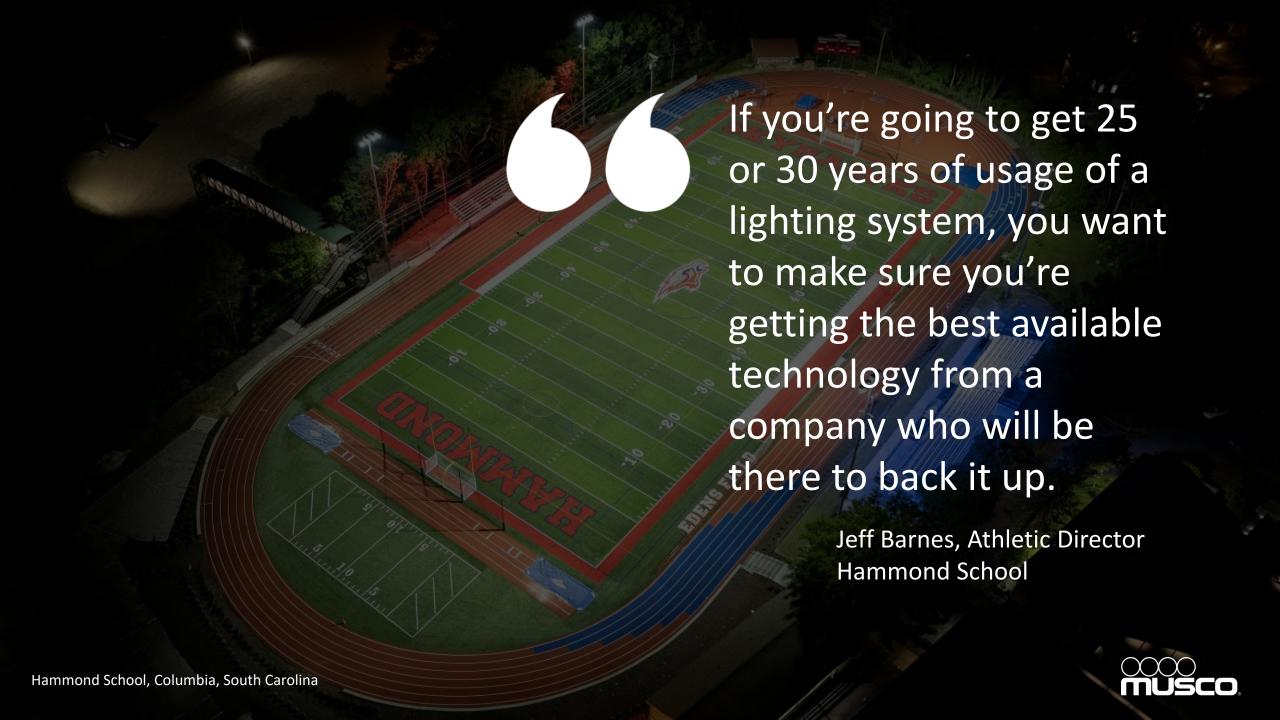


BEFORE: PREVIOUS LED EQUIPMENT

US Naval Academy Farragut Fields Annapolis, Maryland

AFTER: MUSCO LED SYSTEM





TREND 3 The Rise of Controls Capabilities

for Convenience, Flexibility, & Maximum Field Usage







Control-Link®

Turn lights on and off from anywhere

Smartphone and laptop compatibility

Easy-to-use scheduling

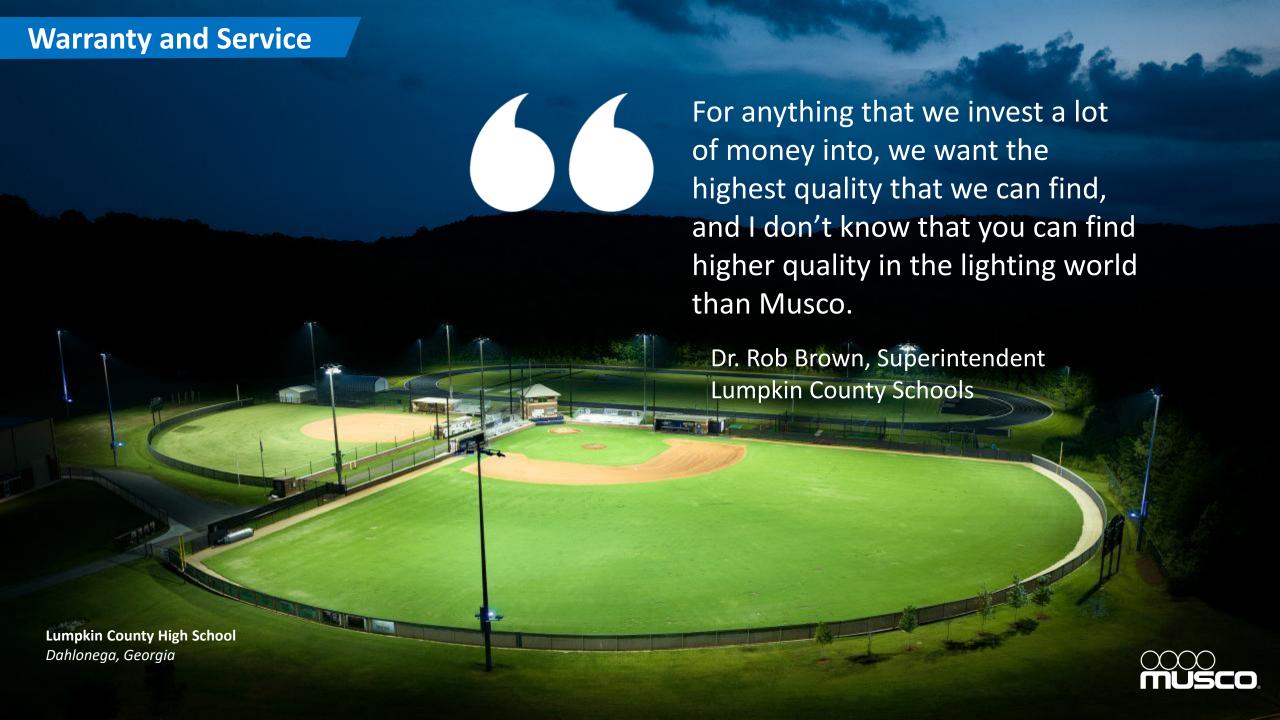
Proactive system monitoring

24/7 service and support









A Comprehensive Warranty

Musco Constant 25™ Warranty

Full parts and labor warranty for the entire Musco system

Performance guarantee, including average light levels and uniformities

No maintenance, removal, shipping or installation costs for repairs

No additional hassle or paperwork required



Musco Constant 25

25-Year Product Assurance & Warranty Program

| oject name: | | Project number: |
|--------------------|-------------|-----------------|
| wner: | City: | State: |
| overed product(s): | | |
| ite issued: | Expiration: | |

Musco Sports Lighting, LLC will provide all materials and labor to maintain operation of your lighting system to original design criteria for 25 years. Musco products and services are guaranteed to perform on your project as detailed in this document.

Light Performance

Specified illumination levels will be maintained and are marked as guaranteed in the Musco Illumination Summary.

Individual luminaire outages that occur during the warranty and maintenance period are repaired when the usage of any field is materially impacted.

Spill Light Control

If specified, spill light levels at identified locations are guaranteed to be controlled to the maximum values provided in the Musco Illumination Summary.

Energy Consumption

Total average kW consumption for your lighting system is guaranteed to be not more than the total load shown in the Musco Illumination Summary.

Monitoring, Maintenance, and Control Services

Musco shall monitor the performance of your lighting system, including on/off status, hours of usage, and luminaire outages. If outages that affect playability are detected, Musco will contact you and proactively dispatch technicians.

notrol of your lighting system is provided via an easy-to-use web site scheduling system, smartphone app, phone, trained Control-Link Central™ service center staff is available toll-free 24/7. Regular usage reports are control-Link Central's web site.



manufactured by Musco is guaranteed.

nsure fulfillment of our product and services warranty and maintains financial r fulfillment of this warranty. Please keep this document as your signed nsive service for the 25 year period.

- Page 1 of 2

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TREND 4

Advances in Entertainment Technology

Allowing New Levels of Experience for Players and Fans



Entertainment Technology

Advanced control capabilities

Color changing lights, pole accents, and effects

Integration with third-party technology and equipment













Ravsten Stadium Idaho Falls, Idaho





TREND 5

Emphasis on Responsible Lighting Practices

to Protect Players, Neighbors, and the Environment



Responsible Lighting Practices

Safety is always a high priority

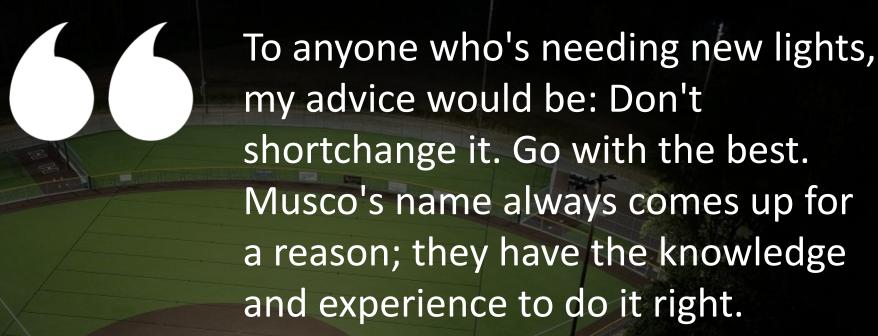
Environmental sustainability

Night sky protection

Wildlife protection

Neighbor relations





Steve Simpson,
Maintenance, Grounds, and Fields Manager
Northshore School District

Inglemoor High School Kenmore, Washington



La Joya, Texas

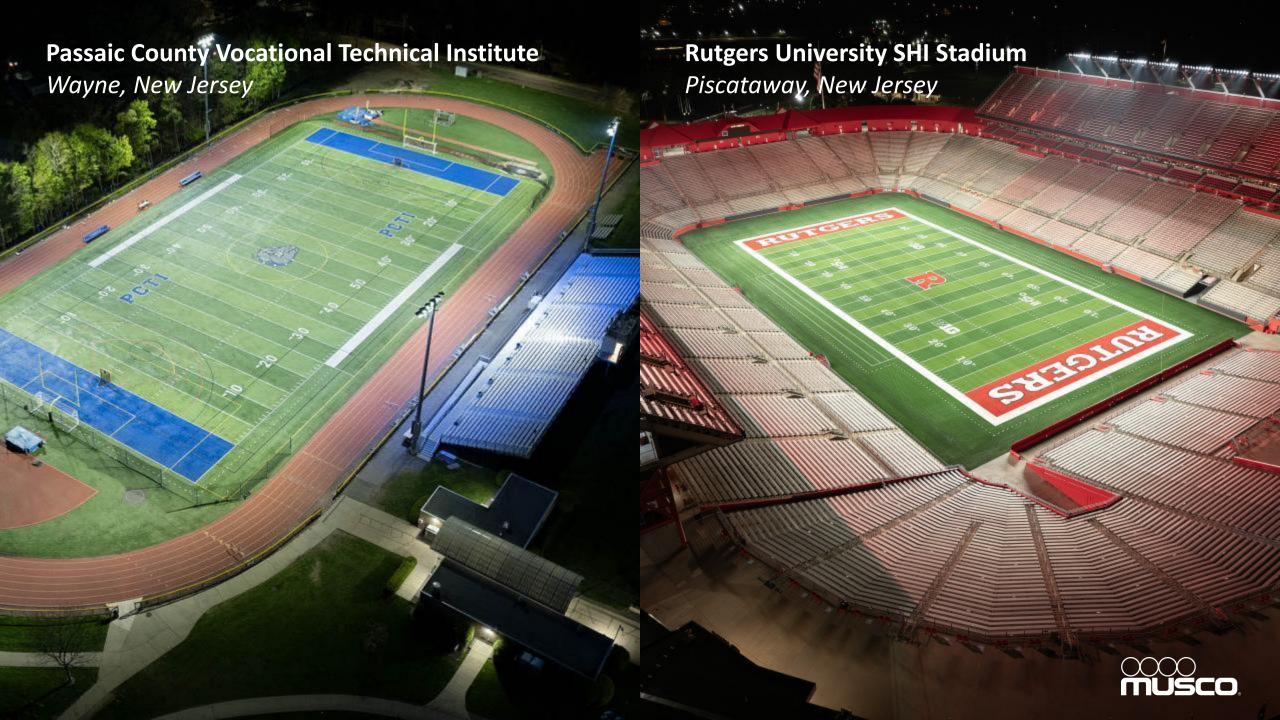


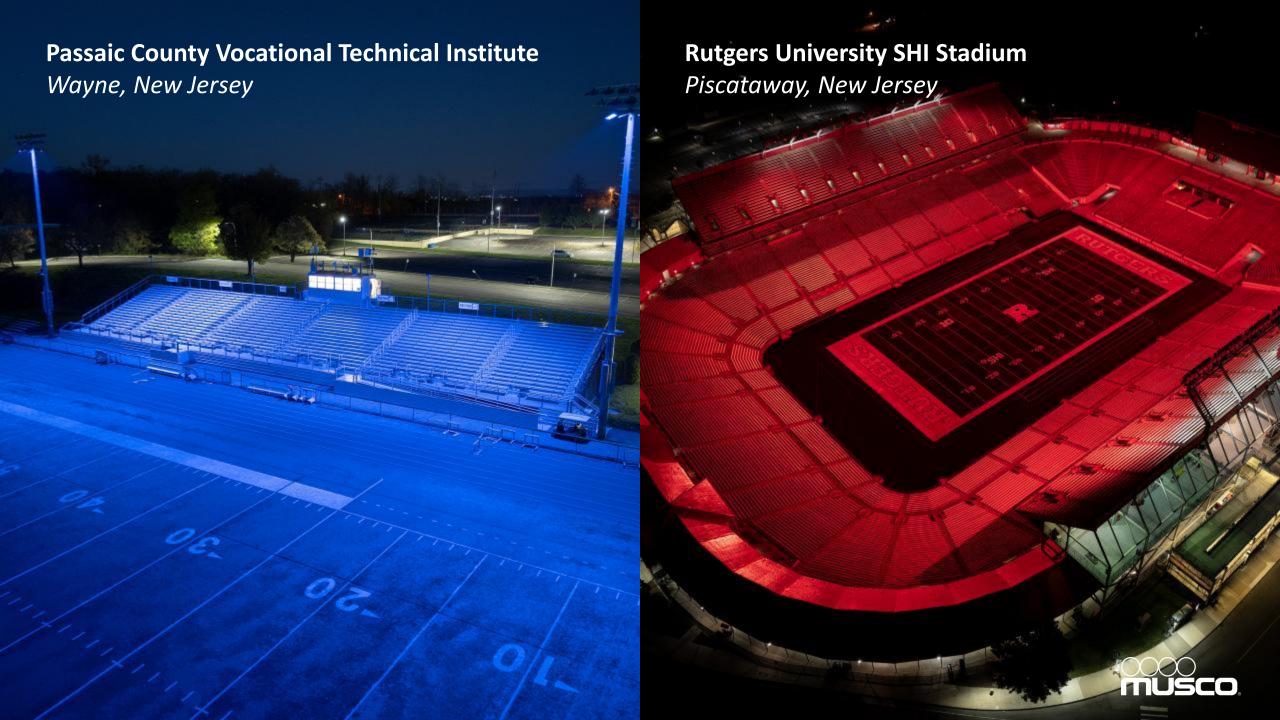
TREND 6

Here to Stay—at Every Level of Play

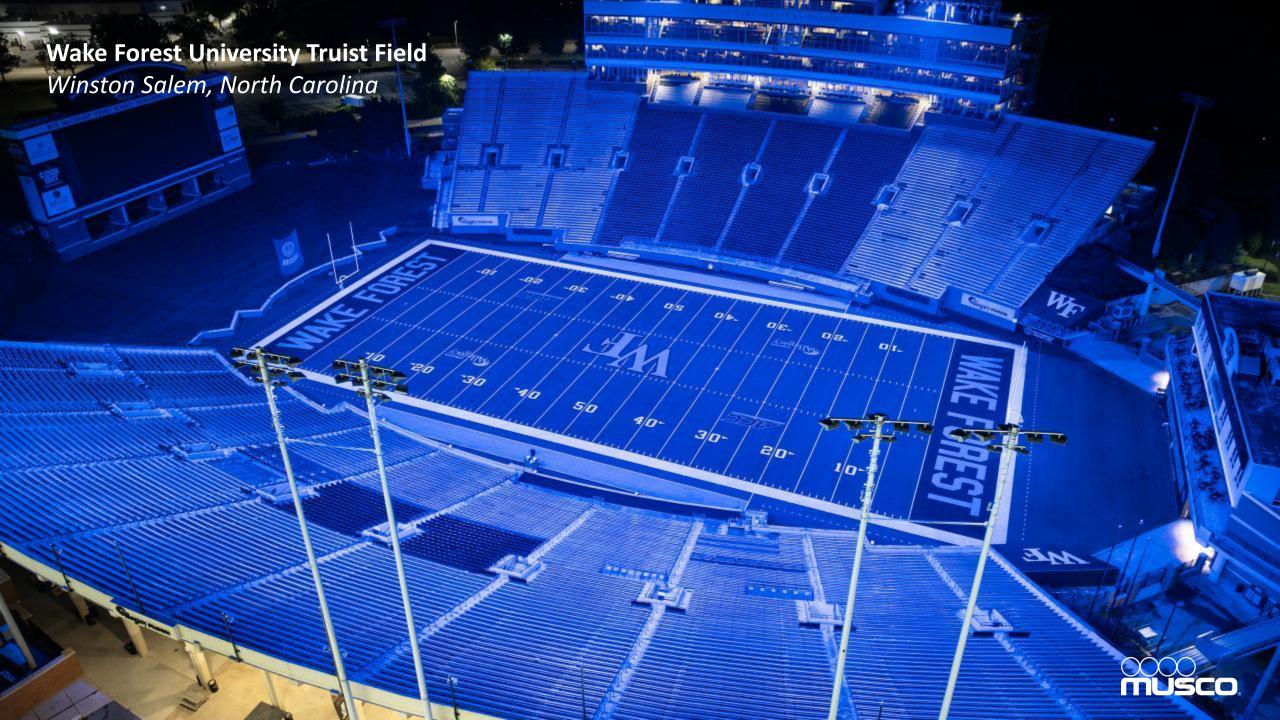
Everything we've talked about today...











Lumpkin County High School Dahlonega, Georgia







Summary/Key Takeaways



Key Takeaways

All LED is not created equal.

System controls should put you in control.

Field lighting can provide the show, or be part of the show—the sky's the limit.

Responsible lighting practices can help achieve organizational sustainability goals.

LED is here to stay at every level of play.



Q & A

What questions do you have?



Thank You

www.musco.com

lighting@musco.com 800-825-6030

