

Introducing
TLC[®] for LED
Total Light Control[™]




We Make It Happen.[®]

TLC[®] for LED[®]

Total Light Control[™]

Continuing the commitment to excellence...

Keeping good lighting affordable...

Guaranteed for 25 years, from foundation to poletop.

Light-Emitting Diode (LED) is a new tool but the issues for sports lighting are the same. For nearly a decade, the Musco Team has been testing the LED light source and applying it on projects where it was the best choice. While LED saved energy, for a typical recreational facility the hours of operation weren't great enough to offset the higher cost.

We've researched LED's distinctive challenges and advantages and applied our knowledge of light control to the unique characteristics of the diode, assuring the quality of lighting for which Musco is known.

We've paired our expertise in controlling light with the advancing output of LED to the point where we're confident it's a cost-effective option to consider for recreational facilities. With our patented BallTracker[™] technology, in-flight balls "pop" against night skies so that tracking the ball is easier than ever before.

The result is a system that makes Musco's great lighting even better.

Better for players...

who want to perform their best and be able to track the entire flight of the ball.

Better for neighbors...

who don't want glare in or around their homes or lights left on when not in use.

Better for the night sky...

with bright, uniform light directed onto the field and not spilling above it.

Better for your budget...

an affordable system that's built to last and control operating costs.

And...you can mark maintenance off your list for 25 years!

The Musco Team looks at the combination of issues to achieve the best solution to meet your needs—from structures, to quality of on-field light, to off-site impact, to energy and costs.

Control

from foundation to poletop...

from the light source to the field,
preserving the night sky...

assuring the results you expect,
day 1... year 1... and for 25 years.



Still Light-Structure System™...

5 Easy Pieces™ complete from foundation to poletop.

Our Light-Structure System™ has delivered long-term performance for thousands of customers around the world.

Lights, structures, and electrical components are engineered to work together. This assures the designed lighting gets in place and stays there over the life of the system, while also maintaining and protecting the operating environment so the components continue to function.

We've included features like easy to reach remote drivers, integrated grounding, and surge protection to ensure the longevity of the LED's sensitive electronic components.

The Light-Structure System™ adapts to support both LED and metal halide light sources.

25 years of proven performance



Control
from the foundation to the poletop.



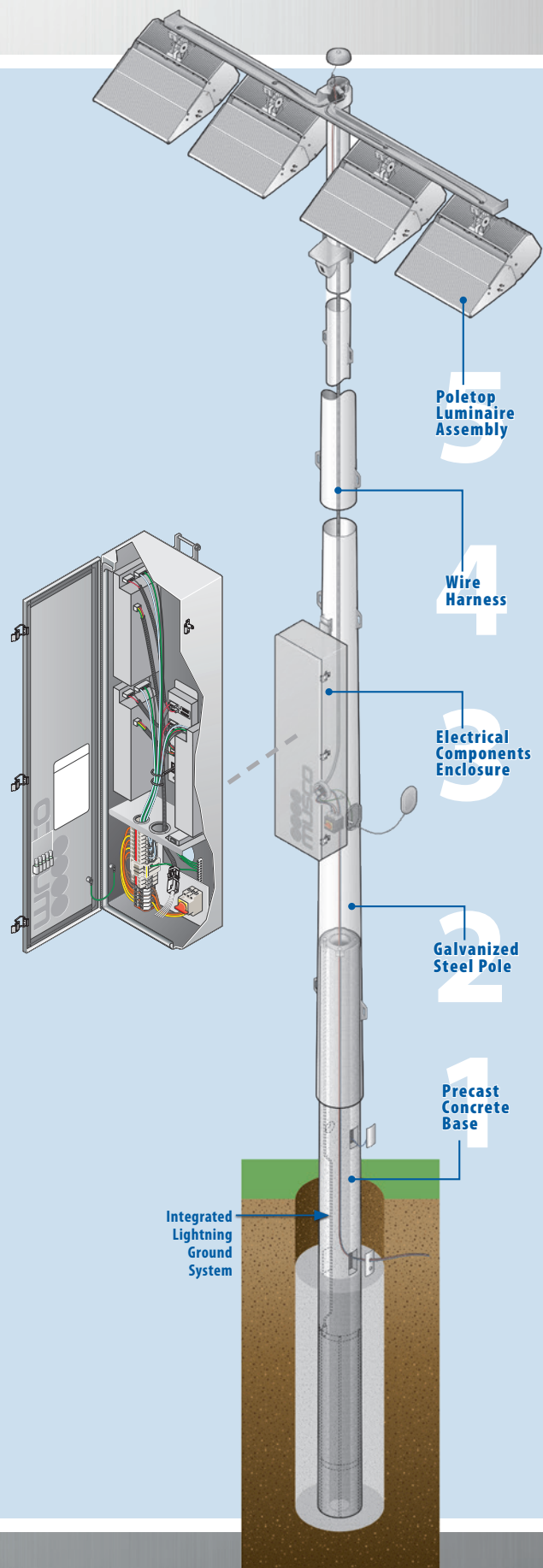
TLC for LED®
Total Light Control™



Other Light Source Option
Green Generation® Lighting
Metal Halide
10 year warranty

"LEDs must be carefully integrated into lighting fixtures. The efficiency of a poorly designed fixture that uses even the best LEDs will be only a fraction of what it would be if the fixture were well-designed, and the design can also affect lumen maintenance."

— U.S. Department of Energy
www.energy.gov/eere/ssl/led-basics



Musco can light a ballfield better than ever.

We create controlled light, not floodlights.

An LED floodlight is a serious step backward when it comes to the quality of light on your field. It may flood light into the neighborhood, into the night sky, and into the eyes of players.

New Tool

LED brings many benefits and new opportunities, but it's a tool, not a solution. Controlling the LED's intense, "rifle shot" of light is challenging. But with Total Light Control—TLC for LED®, we're able to achieve things never before possible—from pinpoint precision, to instant on/off, to varying light levels for different needs and sports presentation theatrics.

Same Issues

The key issues in sports lighting haven't changed: generating light, projecting it onto the target, keeping it out of the neighborhood and night sky, and creating an operating environment that allows it to last in real world conditions. Musco is able to carve out the area to be lighted and dramatically cut off any impact on the surrounding area. We use more of the light produced by the fixture, lose less light, and don't abuse the neighborhood. Our patented BallTracker™ light management technology puts vertical light precisely where it is needed. BallTracker minimizes impact on the night sky while lighting the underside of aerial balls, making night-time tracking easier than ever before.

When you walk onto a Musco-lighted field, it just looks better.

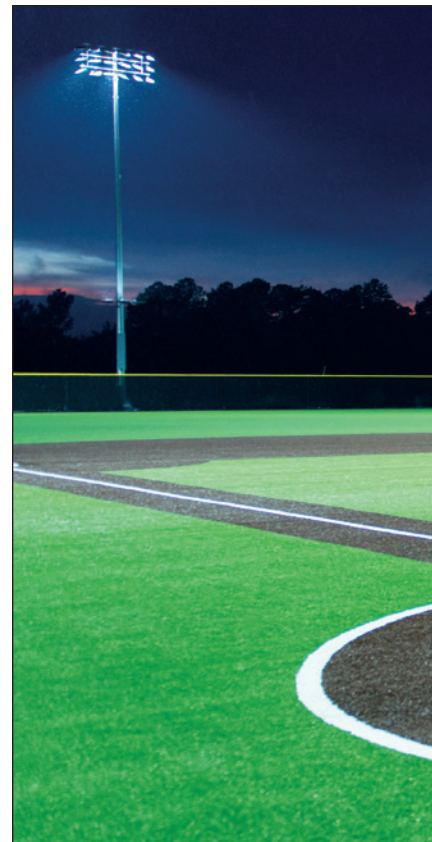
"When you stand at home plate and look out to center field, there's no glare, but the field is totally bright and you see how the white of the ball pops, it looks amazing."

— Tyson Kimm
Vice President of Perfect Game USA,
a major tenant at LakePoint Sports Community

Control
from the light source to the field.



San Diego Padres Petco Park · San Diego, California, USA



LakePoint Sports Community · Emerson, Georgia, USA

. for players, fans, and TV cameras.



Theatrics and special effects enhance fan and TV experience.



Mount Rushmore - Keystone, South Dakota, USA

Pinpoint control from 1,100 feet away highlights the target area while preserving surrounding darkness.



University of Notre Dame - Notre Dame, Indiana, USA

Sensational event lighting with dimming saves energy for high-usage, multi-use venues.



With patented BallTracker™ technology, players enjoy quality lighting, no glare, and better ability to track the entire flight of the ball.

The neighbors will love it.

Musco cares as much about preserving darkness as it does about creating light.

Emitting light is easy. But LED fixtures that can't effectively control the light being emitted brings the unintended consequences of abusive glare for players and neighbors, and wasteful spill into the night sky.

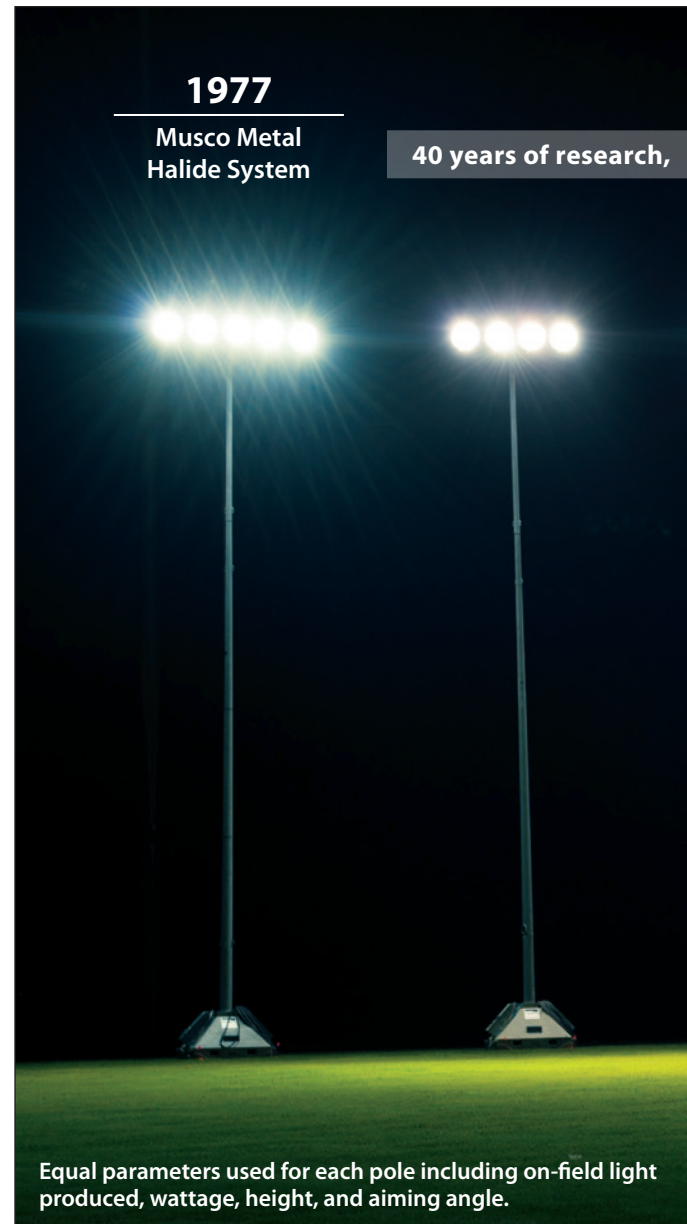
With Musco's Total Light Control—TLC for LED®, we've taken LED to a level of performance and precision never before seen in sports lighting. It means no disruptive glare into nearby homes and the preservation of dark skies above.

And it opens up new opportunities for where fields can be located within a community, and for existing fields that, until now, weren't able to install lights because of community push back.

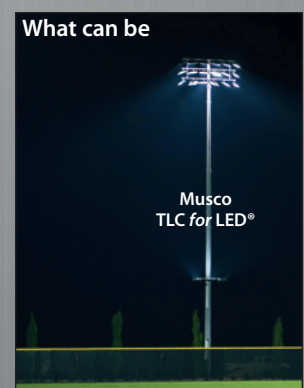
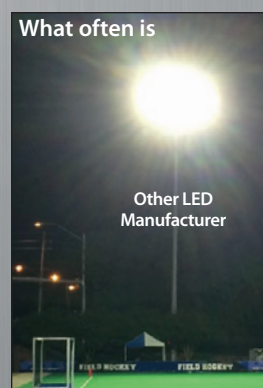
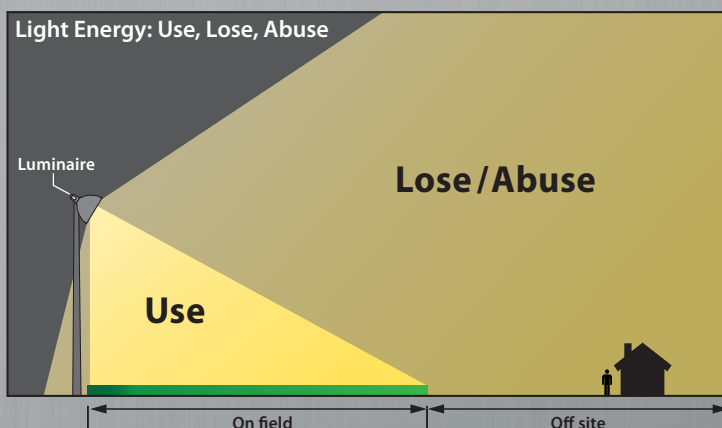
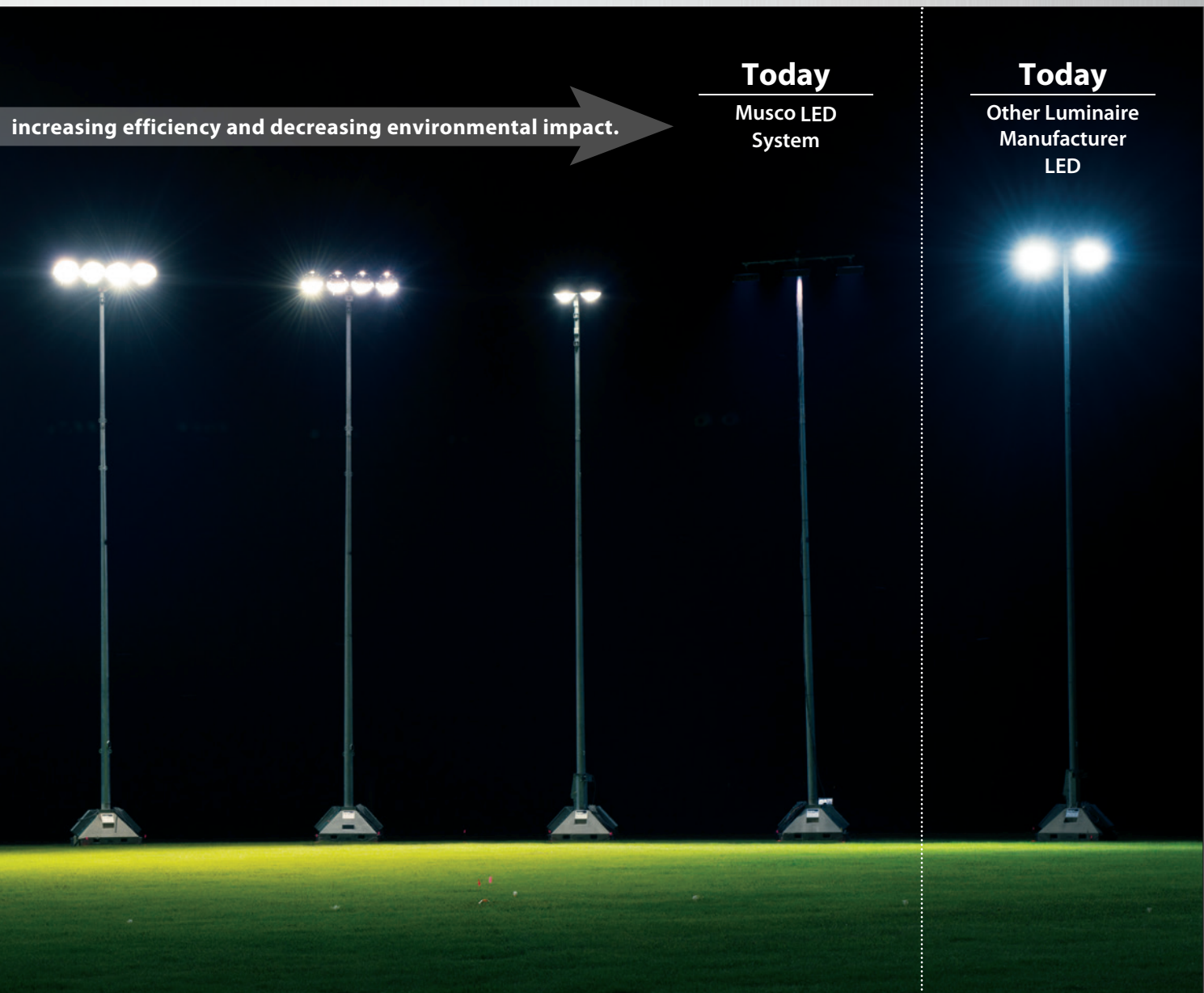
Control
preserving the night sky.

"Glyndon Park is in a naturally wooded residential area. We didn't want to illuminate the homes of neighbors in the area. I initially wasn't supportive of putting in traditional lights. The product Musco has developed allows us to light this field, yet light nothing else around it."

— Cathy Salgado,
Parks and Recreation Director, Vienna, VA



Glyndon Park Little League, Vienna, Virginia



And, your field is always ready to play.

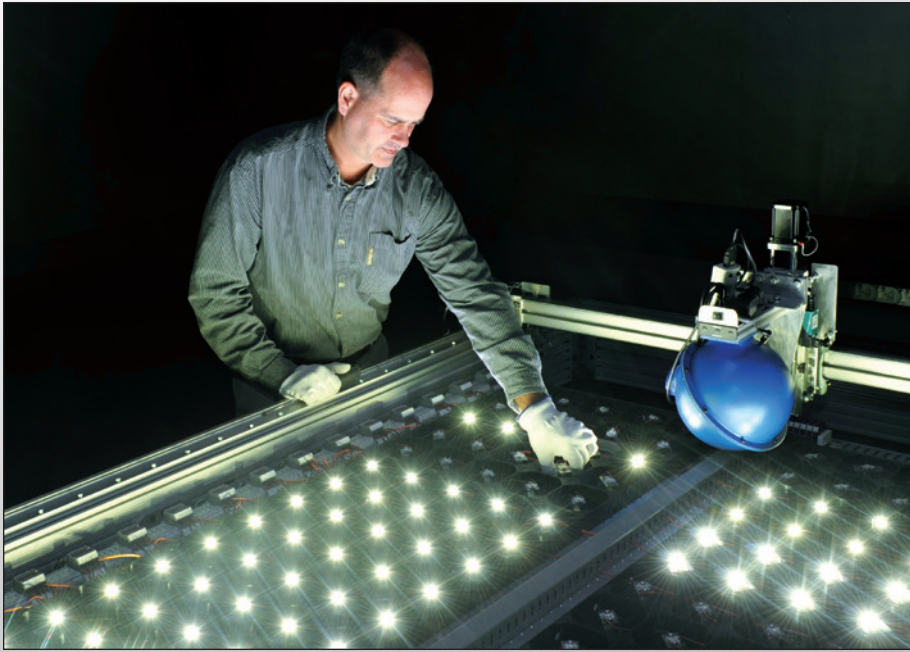
Here's a look at what the Musco Team has done in the last year as a partner in service to customers like you...

- Turned lights on and off remotely for more than 5.5 million games and events
- Conducted routine inspections and maintenance at over 11,000 fields
- Taken more than 350,000 calls, answering questions and helping with scheduling
- Carried out group lamp replacements on more than 30,000 metal halide fixtures
- Traveled enough miles servicing fields to circle the equator 24 times

And here's what our customers enjoy for 25 years...

Peace of mind for 9,125 days knowing that if a problem arises, we'll be there, and a budget with virtually ***zero dollars spent on maintenance, increased staff productivity*** resulting from not having to worry about managing your lights, plus ***restful nights***, free from midnight calls from unhappy neighbors about lights left on.

Control
assuring the results you expect.



We do the R&D to create it. We customize and apply solutions to your facility.

"Musco called to let us know there was an issue before we knew we had a problem."

— Stephen Cooke, CPRP, CYSA
Greenville County Recreation Athletics Manager, Taylors, SC



We're on the road to support it for 25 years.



We provide 24-7 Control-Link® support to monitor and operate your facility.



From metal halide to LED,
Musco's Light-Structure System™ performs
in real world conditions ***for 25 years, guaranteed.***
We Make It Happen.



Control

from foundation to poletop...

from the light source to the field,
preserving the night sky...

assuring the results you expect,
day 1... year 1... and for 25 years.



We Make It Happen®