# **Solutions for Lighting**

### LED Lighting Discussion Prepared for: Palm Springs Unified School District







# **Discussion Topics- Lighting Design / Pole Height**

- LED Fixture Technology
- Pole Location / Illumination Levels
- Proximity to Homes, and other Environmental Concerns



# Light Control Matters



# **Total Light Control for LED**



## **BETTER FOR YOUR BUDGET...**

# What Matters in Lighting Technology

Musco: what can be TOTAL LIGHT CONTROL — TLC FOR LED™



What often is

Figure #1- Same Light Pole Setback from the field. 40' Pole (in Red)- Shallow Aiming Angle. Glare to home. 70' Pole (in Blue). Minimized glare to home.

Figure #2- Pole Height is determined by the setback of the pole from the field, the optimal fixture aiming point on the field, and the light fixture optic capabilities

# Pole height impacts aiming angles and the amount of spill light Off site spill light $\cap$ Distance from the aiming point determines optimal pole height Optimal aiming point 02015 Musco Sports Lighting, LLC - M-1886-enLIS-2 musco

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Solutions for Lighting

What Matters in Lighting Technology

#### Pole Height, and Optimal Pole Locations will provide a safe, well lit field for High School Athletes





#### IMG ACADEMY

#### Bradenton, Florida, USA

50 horizontal footcandles infield (500 lux), 2.5:1 uniformity; 30 horizontal footcandles outfield (300 lux), 2.5:1 uniformity

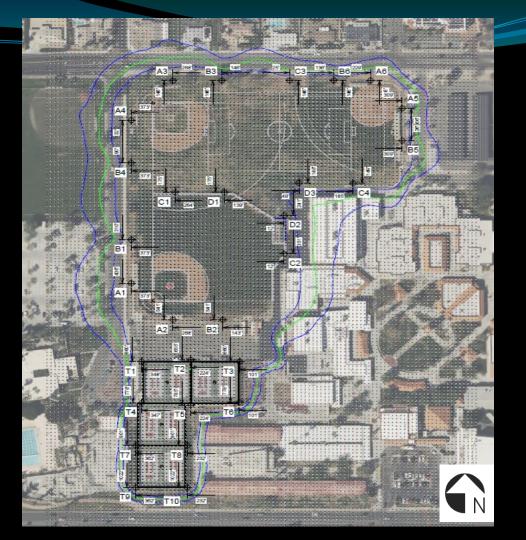
System energy comparison: 68.8 kW – 40% reduction compared to typical HID equipment

# Palm Springs High School – Proposed Lighting



# PSHS -

# New Lighting Pole Locations



# Palm Springs High School – Football Stadium

