



LED Retrofits Adult Sports Complex

CITY COUNCIL – March 21, 2023

City Staff Representative: Kyle Sylvester, Assistant Director of Parks and Open Space



LED Retrofits Adult Sport Complex

1111 Judicial Center Drive





LED Retrofits Adult Sport Complex

Purpose and Background:

- To replace existing, less efficient, high output, halogen lighting with more efficient LED lighting
- United Power has notified us that our kW usage at the ASC is exceeding their 100kW per month threshold for their fee structure
- Usage over 100kWs are charged at the “ISD1” rate
- We were being charged at a significantly lower “C1” rate
- There is approximately a \$16 per kW per hour difference in price
- We average 287kWs per month with peak monthly usage at 548kWs per month
- Lights at ASC are turned on for night programming which is usually during United Power’s peak usage hours, 4pm to 10pm



LED Retrofits Adult Sport Complex



Purpose and Background:

- Changing the existing lights to the more efficient LED lights will get us closer to the 100kW threshold saving us considerable money, at least 50%
- New lighting will have a 25-year warranty that covers all materials and maintenance
- We will recover the costs to install these lights by saving on energy bills before the 25-year warranty expires
- Without LED retrofit installation: \$1,700,000 on energy costs alone



Sustainability Report

For your budget . . . for the environment

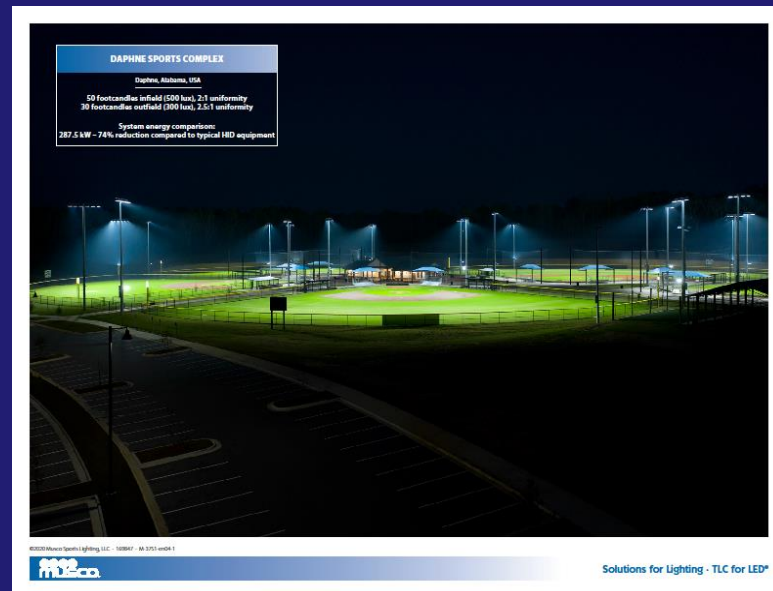
Musco LED		25-Year Ownership Savings \$862,287		CO2 reduction 2586 tons**
-----------	---	---	---	-------------------------------------

**** Equivalent to taking 546 cars off the road for one year**



LED Retrofits Adult Sport Complex

- Lighting will be brighter and directionally accurate to reduce light pollution outside the complex
- Reduction of spill light and glare by 50% or more





LED Retrofits Adult Sport Complex

What Matters in Lighting Technology
Light Control

Musco: what can be

TOTAL LIGHT CONTROL — TLC FOR LED*

1150W FIXTURE



What often is

OTHER LED MANUFACTURER

750W FIXTURE



Luminaire Comparison Demonstration
Photos taken at ground level
Fixtures are at equal aiming angles and heights

©2017 Musco Sports Lighting, LLC. 160100. M-3195-e084-1. Photos taken at same camera settings: Meter (ISO), D3.8, 1/4, 0.0100, 4700.


Solutions for Lighting

March 15th, 2022

To Whom It May Concern,

As a fan of Dark Sky communities and outreach efforts I have personally witnessed Musco Lighting installations that meet and exceed standards of outdoor sports lighting programs while reducing the impact of light pollution to nearby neighbors.

I would highly recommend MUSCO Lighting as one of the premier outdoor lighting specialists. Their commitment to fully shielded Dark Sky lighting for commercial applications is excellent! In my experience, Musco's top notch technologies have contributed to protecting Dark Skies by reducing light pollution while increasing public safety throughout Colorado communities.

Should you have further questions feel free to call or email me at your convenience. Thanks for your time and consideration and best wishes in your future endeavors.

Most Sincerely,

Ryan Parker
IDA Colorado Chapter
ryan.parker@darksky.org
303-669-6582





LED Retrofits Adult Sport Complex Budget

- City would like to award Musco Sports Lighting, LLC in the amount of \$825,000 to complete the LED retrofit installation at the Adult Sports Complex
- If contract is approved full installation will occur within 8 weeks



BrightonSM

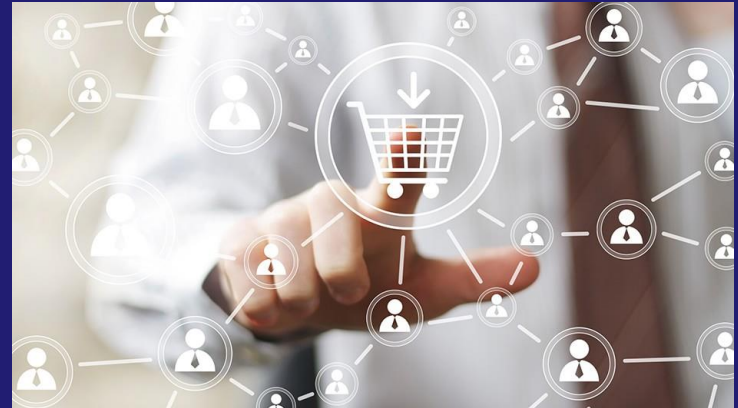
Procurement Summary

PROCUREMENT METHOD:

Sourcewell holds an existing, competitively bid, agreement with Musco Sports Lighting LLC upon which the City has been authorized to piggyback. Cooperative purchasing is encouraged when feasible and in the best interest of the City under Brighton Municipal Code section 3-8.

STAFF RECOMMENDATION:

Accept the quote submitted by Musco Sports Lighting LLC under the Cooperative Agreement.





Options for City Council

Brighton City Council has the following options in this matter:

- Approve the proposal
- Reject the proposal
- Request staff to look at other options



BrightonSM

Questions?

