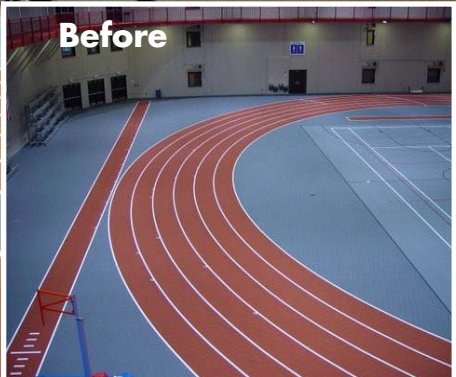
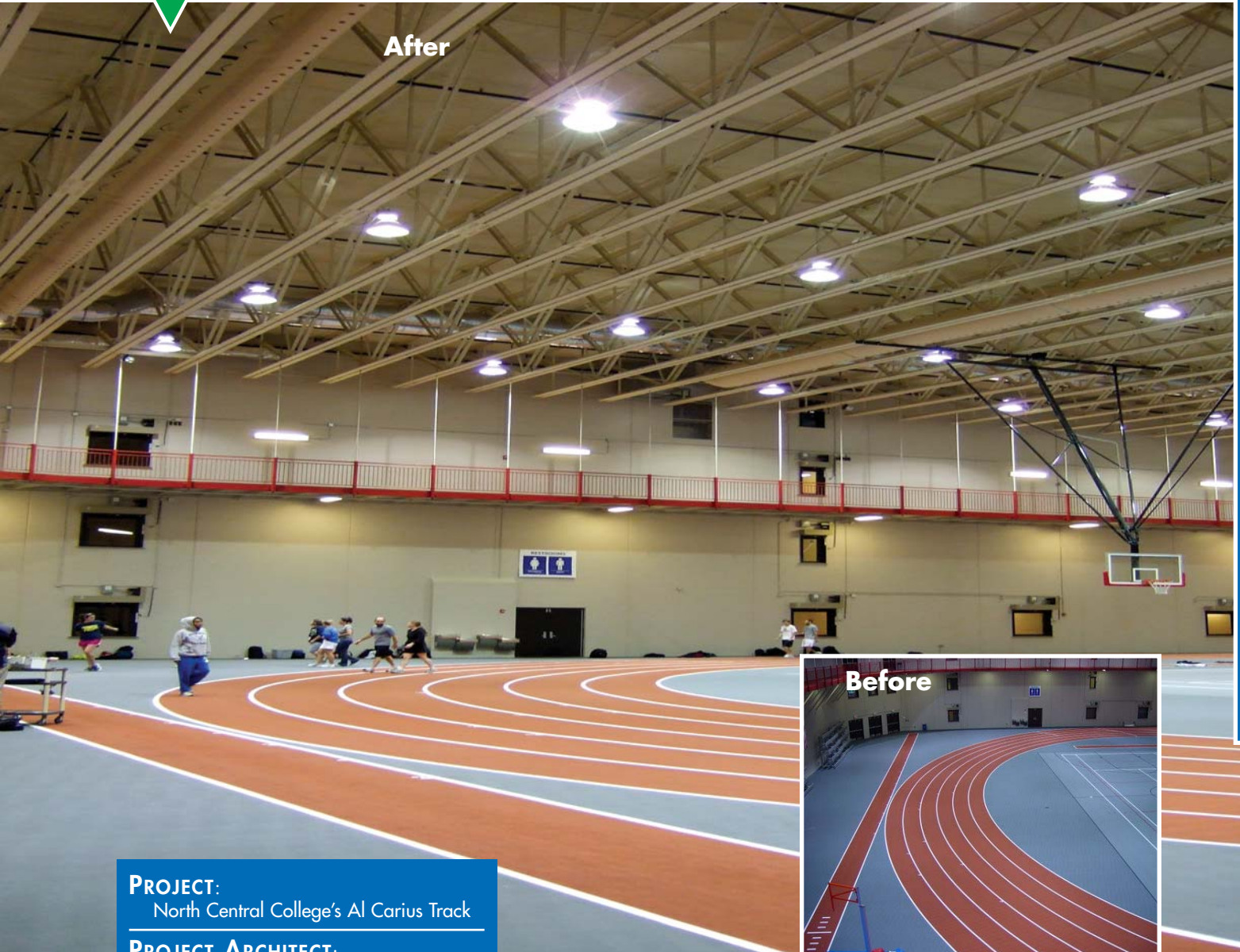




# SUCCESS STORY



**PROJECT:**  
North Central College's Al Carius Track

**PROJECT ARCHITECT:**  
Buchar, Mitchell, Bajt Architects

**LIGHTING SOLUTION:**  
Venture's 875W pulse start metal halide systems

**SCOPE:**  
Indoor track lighting

**BENEFITS:**  
Compared to Proposed T5HO  
Venture's 875W Solution is:

- 38% Less Energy
- 80% Lower Initial Cost
- 35% Less Cost to Fully Re-lamp

## NATIONAL CHAMPION 2010 MEN'S INDOOR TRACK TEAM RELIES ON CHAMPIONSHIP FACILITIES

### PROJECT SUMMARY

The North Central College Cardinals are often in the spotlight. So much so that when the Cardinals built The Al Carius Track; a 100,000 sq foot track and recreation facility, they needed a lot of light! In fact, they needed a lighting solution that would deliver 100 footcandles to the track so the Cardinals could televise their Division III NCAA meets in High Definition.

*(continued on next page)*

### THE OPTIONS

Two lighting technologies were considered, Fluorescent and Metal Halide. Often, a 54W 6 lamp T5HO highbay is thought to be the most energy efficient highbay on the market today. Certainly when comparing the system watts of the T5HO, at 338W per fixture to that of a Metal Halide system like the 350W at 395W per fixture, the fluorescent system consumes fewer watts.



Instead of looking at this as a simple "one to one" comparison, Rick Magsamen, of the sales team at KSA Lighting, decided to step back and take another look. Lighting layouts of the T5HO and Venture's 875W PulseStart Metal Halide systems provided the clear answer.

### THE SOLUTIONS

The 875W highbay solution achieves more light output with 75% fewer fixtures! The layout results in maintained footcandles of 83 with a 1.5:1 avg/min light level uniformity. The 875W highbay solution also saves 313 megawatts per

year, resulting in an annual savings in operating costs of over \$25K.

"After comparing layouts the College Administration, Maintenance Personnel and Architects made the easy choice. Not only did the Metal Halide system save energy, it had a lower installed cost and less maintained cost for lamps when replacement is required," said Rick Magsamen of KSA Lighting.

### THE ADVANTAGE

In applications in which the mounting height of the fixture is above 30 feet, Metal Halide technology outperforms linear fluorescent technology in getting light to the desired task area with fewer fixtures and less energy consumption.

#### Important Reminder:

Venture's 875W lamp is available in a reduced jacket BT37. This wattage is an energy saving solution that replaces the 1000W Highbay. The 1000W probe start lamp is a BT56. Therefore, when installing a Highbay using the 875W lamp, note the bracket location for hanging the optic. Use the position that is specified for a BT37 lamp.

### COMPARISON

Proposed System <b>54W T5HO Fluorescent</b>	vs	Venture's <b>875 Watt MH PS</b>
<b>369</b>	Number of Fixtures	<b>81</b>
<b>2214</b>	Number of Lamps	<b>81</b>
<b>25000 (3hr)</b>	Hours at 50% Survival	<b>26000</b>
<b>338</b>	Watts per Fixture	<b>950</b>
<b>0.90</b>	Light Loss Factor	<b>0.80</b>
<b>18</b>	Daily Hours of Operation	<b>18</b>
<b>6570</b>	Annual Hours of Oper.	<b>6570</b>
<b>\$65,554</b>	Annual Cost of Oper. @ \$0.08/kWh	<b>\$40,445</b>
<b>0</b>	Annual Oper. Saving	<b>\$25,109</b>
<b>\$225</b>	Fixture Cost	<b>\$200</b>
<b>\$50</b>	Labor per Fixture	<b>\$50</b>
<b>\$101,475</b>	Installed Cost	<b>\$20,250</b>
<b>0</b>	Installation Saving	<b>\$81,225</b>
<b>\$5</b>	<u>Maintenance Costs</u> Cost of Each Lamp	<b>\$60</b>
<b>\$20</b>	Labor per Fixture	<b>\$20</b>



Venture's 875W Lamp and Ballast System



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