



# Ice Rink Retrofit



*"Ice rink improves the quality of light and diminishes glare by retrofitting its fluorescents to LED."*

**Subject:** Blue Line Ice Center Arena  
**Location:** Sheboygan, WI  
**Description:** 32– 158 WT LED High Bays  
 17– 106 WT LED High Bays

#### The Situation:

Blue Line Ice Center Arena in Sheboygan, Wisconsin, looking to increase the quality of light in their ice arena upgrades its existing fluorescent high bays to a more visually appealing LED solution. The client was able to provide uniform light output with no glare and created an inviting environment while at the same time reducing energy usage and cutting down on maintenance costs.

#### The Solution:

FSC Lighting’s LEHB LED High Bay was chosen to retrofit the fluorescent high bays; 32– 6 lamp fluorescent high bay fixtures and 17– 4 lamp high bays were retrofitted throughout the arena, at 25’ mounting heights. By retrofitting their existing fluorescents with FSC Lighting’s LED solution, this Sheboygan establishment will use 10,858 fewer kilowatt hours (kWh) per year with an annual savings of approximately \$1,650. LEHB provides a 180,000 hour rated life and the ability to withstand the low temperatures of an ice rink in Wisconsin. In addition to a reduction in energy consumption, reduced heat output reduces HVAC costs. LED lights emit less heat than traditional lighting. That’s important when it comes to keeping ice frozen. "The conversion to LED lighting in our Ice Arena was a great way to reduce our operational budget and decrease our carbon footprint all at the same time." - Dr. Ted Di Stefano– SBLA Director of Building & Maintenance.

	EXISTING	REPLACEMENT
<b>TECHNOLOGY</b>	Fluorescent	LED
<b>SYSTEM</b>	6 & 4 Lamp T8 Fixture	LED PCB High Bay
<b>TOTAL SYSTEM ENERGY USAGE (watts)</b>	220 / 147	158 / 106
<b>CONTROLS</b>	None	Auto Demand Response Ready
<b>TOTAL ANNUAL kwh</b>	38,633	27,775

## RESULTS:

ANNUAL ENERGY SAVINGS:

**10,858kWh**

ANNUAL ENERGY COST SAVINGS:

**\$1,650**