

Case Study

Installation Site:

Shelby Co. C1 Schools

3071 Hwy 15, Shelbyville, MO 63469

Larry Smoot- Superintendent Ph 573-633-2410



BLI
Lighting Specialists

15275 Minnetonka Blvd. Minnetonka, MN 55345
Ph 800-245-5874 Fx 888-333-2852



BEFORE

Load Data

Input Watts per Fixture	458W
Total System Input Watts	5,496W
System Kilowatts	5.5KW
Amps (at 120v)	45.8A

Fixture Data

Fixture Wattage	400W
Fixture Type	Prismatic Acrylic Highbay
Lamp Type	MH400/U (Metal Halide)
Mounting Height	24'
Spacing	16'x'18'
Fixture Quantity	12

Light Level

Footcandle Average at 3ft off playing surface 18fc

Operational Costs

Typical Cost to Operate for 1 Year
(3500hrs at \$.06 per KWh) **\$1154**



AFTER

Load Data

Input Watts per Fixture	193W
Total System Input Watts	2,316W
System Kilowatts	2.32KW
Amps (at 120v)	19.3A

Fixture Data

Fixture Wattage	256W
Fixture Type	Z-Max 88 LP WG
Lamp Type	T8 SCB
Mounting Height	24ft
Spacing	16'x'18'
Fixture Quantity	12

Light Level

Footcandle Average at 3ft off playing surface 35fc

Operational Costs

Typical Cost to Operate for 1 Year
(3500hrs at \$.06 per KWh) **\$486.36**