



SUGAR LAND SPORTS COMPLEX

Location: Sugar Land, Texas Facility Type: Ice Rink
 Building Square Footage: Type of Retrofit Performed:



BEFORE

EXISTING LIGHTING

Individual Wattage per Fixture:

(1) 400 Watt Metal Halides = 458 Watts

Total Wattage 400 Watt Metal Halides
 458 W x 65 fixtures x 4,785 hrs/1,000=
 142,413.68 KWh x 2 Ice Rinks =
284,839.36 KWh

25-36 Foot Candles



AFTER

PROPOSED LIGHTING

Individual Wattage per Fixture:

(1) Fluorescent Medium Bay -
 4 Lamp T5 High Output = 216 Watts

Total Wattage FMB454
 216 W x 65 Fixtures x 4,784 hrs/1,000=
 67,167.36 KWh x 2 Ice Rinks =
134,334.72 KWh

38-55 Foot Candles

SAVINGS

Annual Operating Hours = 4,784 hours

Weekly Operating Hours = 92 hours

KWh Rate = .087

Annual KWh reduction = 150,505

Annual Savings = \$13,094 (\$1,091/month)