

PAYBACK CALCULATOR RESULTS: Replace a 400W Metal Halide Construction Light with the 120W LED BEACON360

The Beacon360 is an incredibly bright LED area light that casts light in 360° and upwards, illuminating entire work areas. One of the many benefits to the Beacon360 is the incredible energy savings. Without compromising on light output, replacing a 400W metal halide light with the Beacon360 will reduce energy consumption by 70%.

ENERGY SAVINGS

The Beacon360 is a powerful 120W light, using only 30% of the energy used to run a 400W metal halide light, while still providing the equivalent amount of light. While 400W metal halide bulbs will experience a steep drop in light output, the Beacon360's led arrays are rated for over 50,000 hours and will never degrade. In addition, the colour temperature of the Beacon360 is 4500K, which is very close to natural sunlight and is easier on the human eye, both indoors and outdoors.

TIME & MAINTENANCE SAVINGS

In addition to the energy savings, the time & maintenance savings associated with replacing a 400W metal halide light with the Beacon360 prove to be quite significant. The Beacon360 will never require a bulb change while 400W metal halide bulbs break approximately every 215 hours when used in construction applications. The Beacon360 provides an instant start-up vs. 10-15 minute daily wait times associated with 400W metal halide lights. Loss of productivity can be measured by using the average construction labourer's wage multiplied by the amount of time lost waiting for lighting to be ready. Conservatively measuring only one worker's labour costs (as there may be several employees idle and unproductive while waiting), the cost of down-time associated with high wait times and bulb changes with a 400W metal-halide light is over \$2,300 per year.



Based on this data, the cost-savings of the Beacon360 will create a payback in 4 months.

Results:	
Energy Costs for 400W Metal Halide (Per Year)	\$108.00
Bulb Costs for 400W Metal Halide (Per Year)	\$522.00
Labour Cost For Daily Start-Up of 400W Metal Halide (Per Year)	\$1,250.00
Labour Cost to Change Bulbs of 400W Metal Halide (Per Year)	\$60.00
Labour Cost Due to Power/Accidental Interruptions (Per Year)	\$375.00
Total Operating Costs for 400W Metal Halide (Per Year)	\$2,315.00
Operating Costs w/o Energy for 400W Metal Halide (Per Year)	\$2,207.00
Energy Costs for Beacon 360 (Per Year)	\$37.44
Beacon Light 360 Savings (Per Year)	\$2,277.56
Break Even Point w/ Energy Savings (In Years):	0.34
Break Even Point w/o Energy Savings (In Years):	0.35

**COST SAVINGS
CREATE A PAYBACK
IN 4 MONTHS.**

