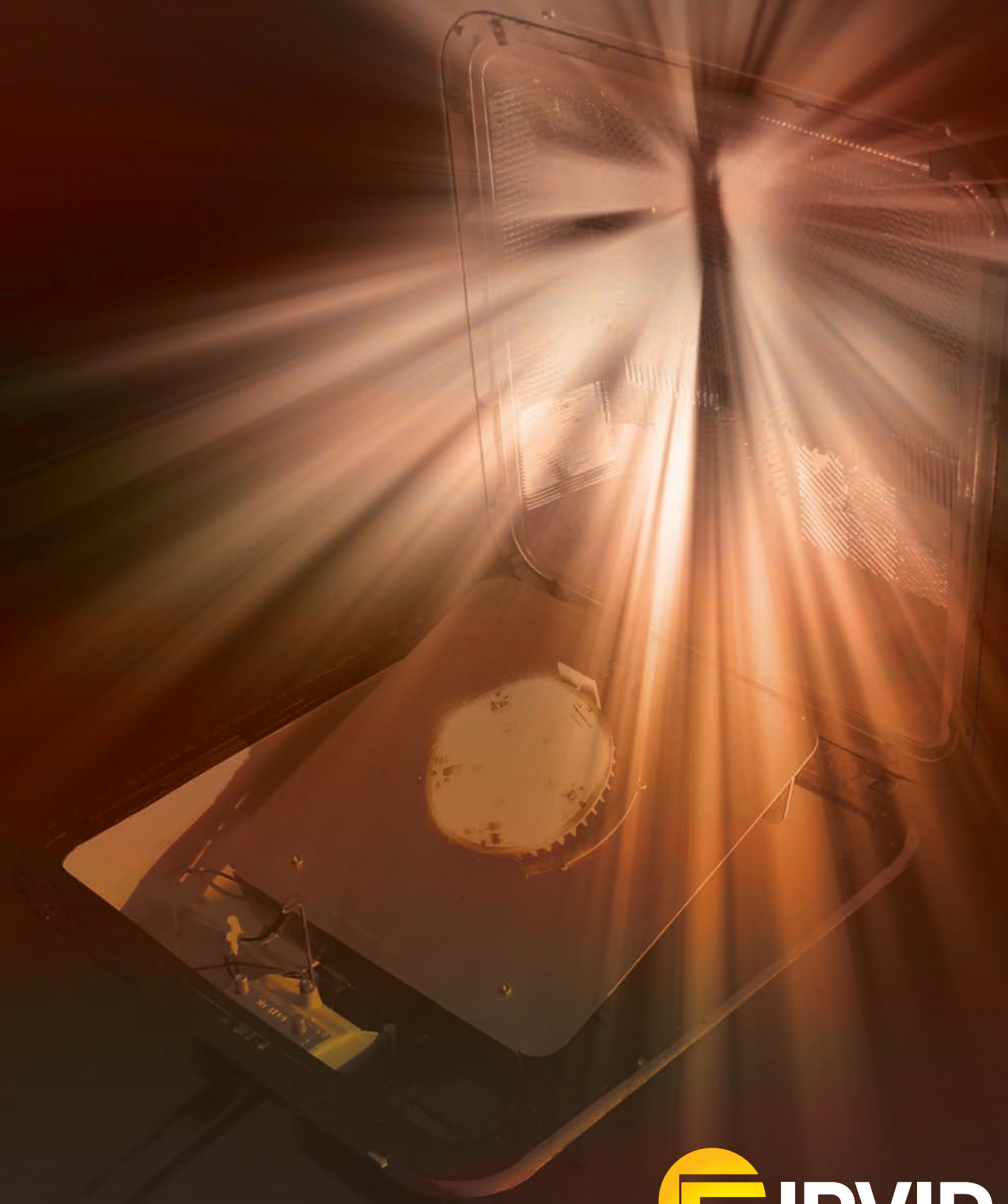




# ShineVue LED

by Irvin, Inc.



**IRVIN**  
Your partner for everything outdoor.

## WHY GO LED?

Light Emitting Diodes, more commonly known as “LEDs”, represent the best in lighting technology today. Though they have been used in industrial and commercial applications for more than 20 years, their move into the outdoor market has been tedious. The progression to effectively light billboards with LEDs has required new and inventive approaches. At Irvin Steel, we are proud to have partnered with Global Tech LED to meet the challenge and offer a unique solution with ShineVue LED™.

The ShineVue LED Retrokit marries the best of new lighting with the best of what has long been the industry’s standard go-to fixtures, the Holophane Sign-Vue™ and Panel-Vue™ (Crouse-Hinds retro also available). Our approach to billboard LED utilizes the premiere Philips Rebel™ chips in a unique “cluster” configuration that takes full advantage of the prismatic lenses of both fixture styles. All internal components of the Holophane® fixtures are replaced with a self-contained kit that transforms the unit into one that reduces power consumption by 75% and still offers full lighting coverage and consistent performance.

Coupled with the proper drivers, heat dissipating components and other Global Tech LED patented fixture technologies, ShineVue LEDs™ represent the brightest LED light fixtures available for an LED Retrokit. Furthermore, it produces a much wider spectrum of light than conventional lighting alternatives (6,000-7,500°K). As a result, the perceived light emitted from ShineVue fixtures is much higher than conventional counterparts, and is much easier on human eyes (without a lot of wasted spill over light as well).

## WHAT ARE THE BENEFITS OF SHINEVUE LED AND LED LIGHTING?

ShineVue LED Retrokit and high bay lighting fixtures provide a direct replacement for 'Conventional' high bay HID, fluorescent, and they excel in virtually every way.

- **Better Quality Light** – ShineVue LEDs are rated at 6,000-7,500 degrees Kelvin, very close to daylight spectrum, with no UV pollution. They are healthier for the eyes than other lighting, create better visibility, and advertising copy is shown as designed without any yellowing effects from traditional HID lighting.
- **Energy Savings** – ShineVue LEDs save up to 75% over HID lighting. ShineVue LED changeouts can result in additional savings from local, state or national energy savings programs. They also run cooler than traditional fixture types.
- **Life** – ShineVue LEDs are guaranteed for Five years as are the drivers. They produce no UV light and the plastic components will not yellow or become brittle over time.
- **Features** – ShineVue LEDs ship with the DIP settings at full power, but they can easily be switched to allow for a 5-6-1 energy setting. This program selection makes the unit operate for the first five hours at 100% power, the next six hours it dims to 50% power and then the last hour before sunrise the unit goes to 100% output.
- **Scotopically Enhanced** – Traditional lighting output is measured in photopic output. However, scotopic output has more bearing on the effectiveness of lighting. Higher scotopic output means that a lower power ShineVue LED can be used to replace much higher lumen output lights of other types.
- **Safe / Rugged / Quiet** – ShineVue LEDs use low voltage, contain no mercury or lead, and have no filament to break or casings to explode. They are resistant to heat, cold and shock. They produce no flicker, no buzz, no UV or infrared radiation.
- **Green** – ShineVue LEDs are among the greenest lighting on the planet, produced without hazardous materials, and contributing to some of the largest green house gas reductions of any lighting available. Our fixtures are RoHS compliant as well. Just switching your HID lights to LED reduces your carbon footprint drastically even if there are no other environmental actions taken.
- **Consistent Performance** – ShineVue LEDs have no appreciable decline in output over the life of the bulb compared to some HID's which can suffer from 60% or more depreciation in output over their life.



14' x 48' utilizing ShineVue LED™ inside Holophane Sign-Vue™ fixtures

# ShineVue LED™ - Holophane® LED Retrokit

## BETTER EFFICIENCY AND COST-SAVINGS...

Among ShineVue's most unique features is the cluster pattern of LEDs that creates a tight penetration of light on the board and takes full advantage of the Holophane lenses. The workhorse of each cluster is the Philips Rebel chip, which has a high operating temperature, creates constant color and has no filament – a potential failure point of other lights. The ShineVue has a unique lumens delivery system coupled with a 135-watt maximum power consumption for dramatic energy savings. A 100,000-hour expected LED life means drastically reduced maintenance costs over the life of the fixture.

The ShineVue design also works hard to keep temperatures down. LEDs still generate a considerable amount of heat and dispersing that heat can be among the most challenging of elements in designing a long-term solution. ShineVue's internal cooling system effectively circulates air around the heat sink and LED, thereby pushing the warmest air away from critical components and towards the outer edges of the Holophane enclosure. The vortex keeps a consistent, cooler temperature near the LED and allows the warmer air to push out and transfer through the metal of the enclosure. In the unlikely event the LED temperature hits 150°F/65°C, the unit will switch into "safety mode," reducing its power consumption to 50% and ultimately shut off to avoid complete failure at 200°F/93°C.

## LED RETROKIT BENEFITS

- ▶ Reduce operating costs by up to 75% over HID
- ▶ Built-in additional power savings feature with easy to activate DIP switch
- ▶ Soft start technology extends life by dispersing the power evenly at startup
- ▶ UL Listed 120, 208, 240, 277 and 480 single phase driver included
- ▶ Safety mode indicates when something is wrong and protects the unit
- ▶ Scotopically enhanced (fuller spectrum) for higher quality light output
- ▶ Built-in safety turnoff if temperature exceeds 200°F/93°C
- ▶ Contains no hazardous mercury, so they do not require recycling
- ▶ Rugged: no fragile filament or tube, resistant to heat, cold, and shock
- ▶ Uses low voltage IP 65 power supplies thus improving safety
- ▶ Reduces maintenance costs by eliminating the need to change out bulbs
- ▶ R.O.I (return on investment) in as little as 12 months
- ▶ Qualifies for high rebates and tax benefits
- ▶ 100,000-hour expected life with a five year warranty
- ▶ Silent and free of annoying flicker and buzz
- ▶ Produces no UV or infrared emissions
- ▶ Over and under voltage protection
- ▶ DLC listed
- ▶ RoHS compliant

## EASY INFIELD RETROFIT

- ↳ Fast replacement
- ↳ No holes to drill
- ↳ No modifications to box
- ↳ No extra tools required to install
- ↳ IP 65 power supply
- ↳ Less than 15 minute change out per fixture

\*Scotopic lumen performance, a complete measure of how the eye perceives light, is a more accurate measure of light output to determine appropriate replacement options.

\*\*Holophane, Panel-Vue and Sign-Vue are registered trademarks of AcuityBrands





# How Much Will You Save?

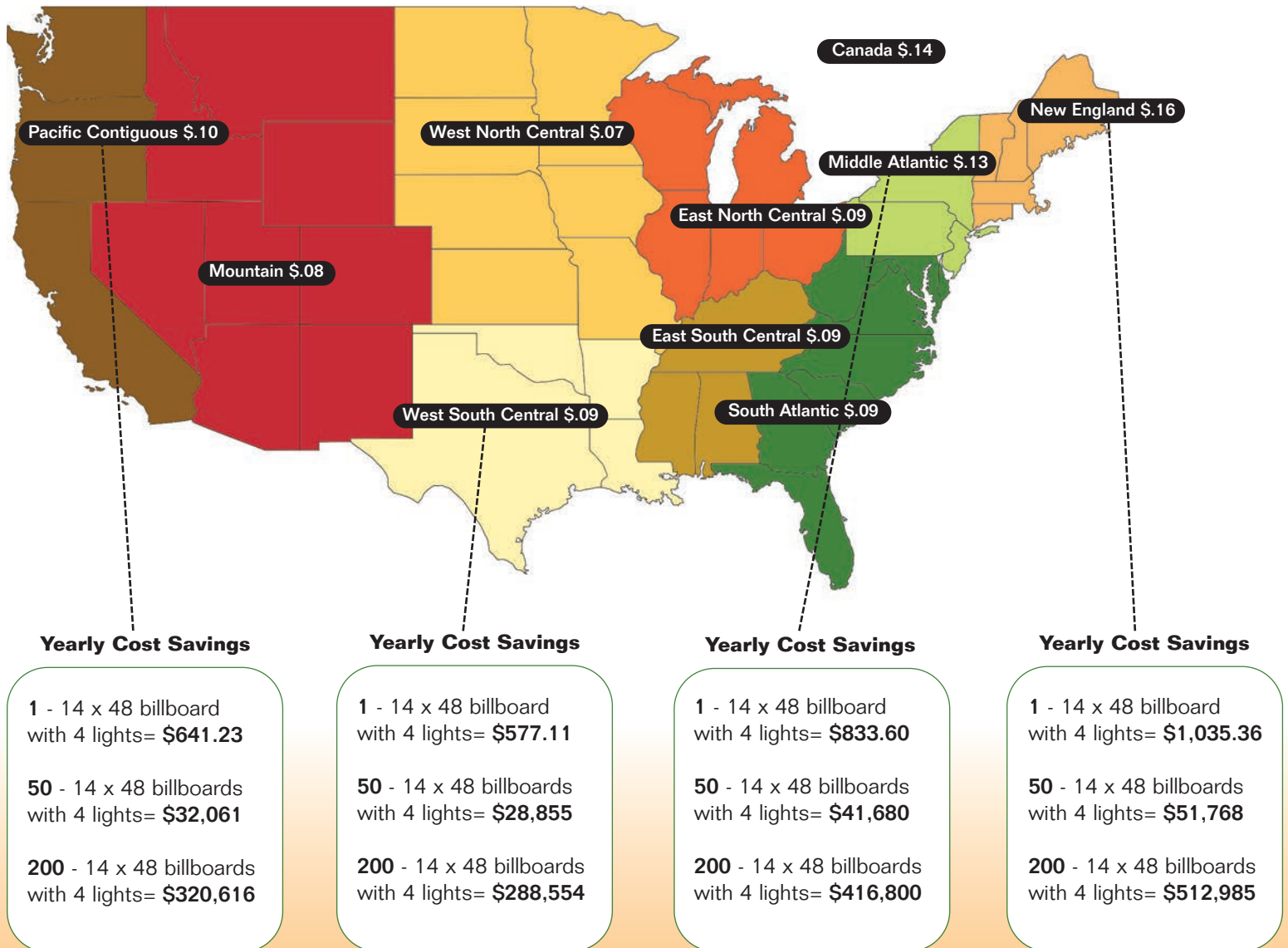
## A Lot...

ShineVue LED's use only a 135-watt maximum power consumption for dramatic energy cost reduction. And, a 100,000-hour expected LED life means drastically reduced maintenance costs (materials and labor) over the life of the fixture. "Lights out" on high energy usage and continuously increasing power bills.

In the New England area, running a single 400-watt metal halide consuming 468 watts for 365 hours (one month 12 hours per day) would cost \$27.33 in electricity alone based on the average retail price of electricity. Because the ShineVue LED uses only 135 watts, running the light for 365 hours will cost only \$5.76 under the same scenario. In addition, you will no longer spend time or money replacing bulbs (average cost of \$150 per face). In just **one year for one billboard with four fixtures** using ShineVue LED, **you would save \$1,035.36 on your electric bill alone** (not counting maintenance and bulb savings). Imagine the savings if every billboard light you owned was using ShineVue LED technology! Go to [www.isioutdoor.com](http://www.isioutdoor.com) for more information. To view rebates and incentives for your state, go to [www.dsireusa.org](http://www.dsireusa.org)

See the chart below to find out the average savings for your part of the country (**Does not include taxes and other fees**).

**Average retail price of electricity are below for each of the main areas of the United States**  
**Data is from the US Energy Information Agency ([www.eia.doe.gov](http://www.eia.doe.gov))**





10' 6" x 36'



14' x 48'

NOTE: Colors and levels of photos were not manipulated





10' 6" x 36'



14' x 48'

NOTE: Colors and levels of photos were not manipulated

We are committed to providing you with an optimal LED solution for outdoor advertising.  
We guarantee unsurpassed quality by offering:

- Ten Year Limited Warranty on LED
- Ten Year Limited Warranty on LED Driver

## Limited LED Product and Driver

The manufacturer warrants to the original purchaser, with proof of purchase, its delivered products should be free from defects in the material and workmanship for up to ten years from date of shipment.

The manufacturer will repair, or at its option, replace the defective product during the standard warranty period. This warranty applies only to the repair or replacement of the product and only when the product is properly handled, installed and maintained according to our instructions.

This warranty excludes defects resulting from improper installation, acts of God, fire, vandalism or civil disturbances. Purchaser must notify us in writing within 60 days of noticing the defect. This warranty excludes field labor or service charges related to the repair or replacement of the product.

## Limited LED Warranty

The manufacturer warrants to the original purchaser, with proof of purchase, its supplied LEDs for ten years from date of shipment. Global Tech LED will repair, or at its option, replace the defective fixture during the stated warranty period should there be greater than three simultaneous LED failures per fixture.

"Failure" is considered a non-operating LED. This warranty excludes field labor or service charges related to the repair or replacement of the product.

## Limited Finish Warranty

The manufacturer will warrant to the original purchaser, with proof of purchase, for a period of 10 years from date of shipment. The manufacturer will repair, or at its option, replace the defective finish if it exhibits cracking, peeling, excessive fading or corrosion defects during the warranty period.

This warranty applies only to the finish and only when the product is properly handled, maintained, installed and exposed to normal environmental conditions. This warranty excludes defects resulting from improper handling, storage, installation, acts of God, fire, vandalism or civil disturbances.

Purchaser must notify us in writing within 60 days of noticing the defect. This warranty excludes field labor or service charges.

[www.irvinforoutdoor.com](http://www.irvinforoutdoor.com)



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