AC DOB
LED
The Revolution of Lighting

A New Era of Lighting

The most efficient lights ever created

Sustainable & Efficient
Lighting Solutions

ACDOB TECHNOLOGY

ABOUT US
ACDOB

AC DOB is an LED lighting manufacturer that specializes in the production of the most advanced and efficient lights ever created.

THE NEXT BIG THING IN LIGHTING
IS HERE

For the past 11 years, our scientists & engineers have worked tirelessly to create the most efficient lights ever developed. They are truly a revolution in not only the lighting, but the entire electric industry. They are certified, used worldwide and have surpassed testing standards that **NO OTHER LIGHTS** in history have passed before.

3 CORE TECHNOLOGIES

1. Our ACDOB technology allows our lights to function without a ballast/driver creating massive savings in maintenance and energy while expanding life span.

2. Using Nano optics developed in the camera industry, we can control the distribution of light.

3. We have created a proprietary cooling system that allows us to keep heat and energy usage low without the need for a large fixture or housing unit.

A REVOLUTIONARY **PRODUCT** THAT CREATES SAVINGS IN MANY WAYS

It's no secret that LED lights are by far the most efficient light source ever created, but to run directly on AC **changes everything.**

In some cases, saving up to a ridiculous

95%

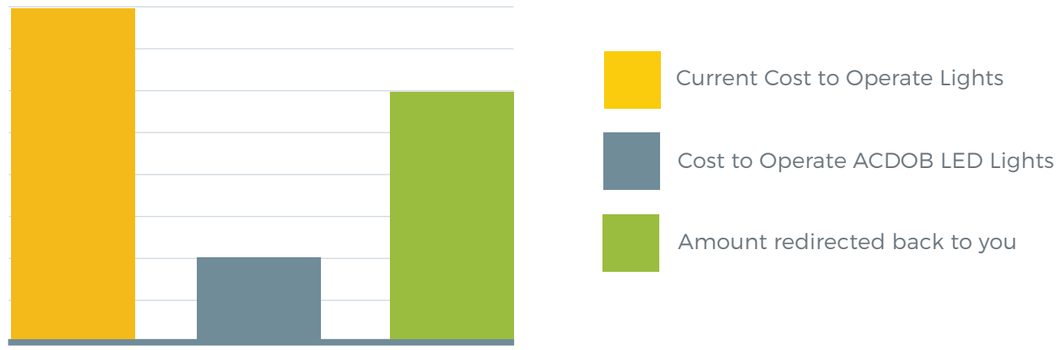
in operational costs.

LIGHTS THAT DON'T JUST SAVE, THEY PROVIDE A **POSITIVE ROI**

The benefits from the advancements in our technology are impossible to ignore when making a decision regarding lighting.

Typical outlook on the savings created with our lights

Substantial savings are made when maintenance costs are factored in along with energy savings



THE MOST EFFICIENT LIGHTS **EVER CREATED**

REVOLUTIONARY BREAKTHROUGH **ACDOB TECHNOLOGY**

1
CORE TECHNOLOGY

LED technology has drastically changed the worldwide lighting industry. The energy savings have proven to be massive but until now, the lights were still very flawed.

With ACDOB technology, we have finally eliminated the most expensive aspect of other LED lights... and it's ***not the energy consumption***.

While LED lights are known to save up to 85% in energy usage, they still require a ballast/driver/transformer to function. This component is not unique to LED's and for the last 140 years, they have been required by ALL LIGHTS to function. They come in many shapes and sizes depending on the light but the one thing that's constant about them is that they don't last very long.

Most maintenance and lighting engineers will tell you that the ballast or driver replacement costs far outweigh the energy savings.

Some bulbs might indeed last 10 years, but the maintenance required to constantly change this required component keeps ongoing operating expenses very high. ACDOB technology eliminates the components that fail and require ongoing replacement. Our patented and innovative engineering breakthroughs enable us to offer LED lights that are certified for at least **13 years WITHOUT the need for maintenance.**

SAVING **ENERGY**

Control the Heat
=
Control the Energy

NANO OPTICS **LENS TECHNOLOGY**

2
CORE TECHNOLOGY

Most high-pressure sodium lamps and current LED solutions utilize some type of mirroring system to redistribute and spread light. This system creates a lot of heat causing energy bills to spike.

Our lights use an optical lens technology, engineered by the same team that created the lenses for the Samsung Galaxy smart phone. This lens technology allows us to use a magnification effect for redistributing light. This uses much less energy, stays much cooler and allows our lights to last much longer than their contemporaries.

COMPARING OPERATING COSTS

This includes energy usage in addition to the maintenance required for upkeep for comparable street lights.

A BETTER SOLUTION FOR **HEAT DISTRIBUTION**

3
CORE TECHNOLOGY

Our state-of-the-art designed aluminum alloy housing allows heat to be distributed on a much smaller surface than other LED lights. This, in turn allows a much more compact size while keeping a much cooler product.

MUCH MORE LUXE **FOR LESS WATTAGE**

For one project, we replaced 175-watt metal halides that were creating 17 luxe with 60 watts that produced 150 luxe all while using 2/3 the amount of lights.

This isn't a special case nor is it rare. In fact, these savings in energy while increasing the brightness is the norm for all ACDOB lights.

A SAFER **ENVIRONMENT**

ACDOB provides brighter, highly controlled lighting that creates safer streets, sidewalks, parking lots, garages, alleys and work environments. Our breakthrough lens technology can focus the light and distribute it evenly while eliminating dark spots known in the industry as the zebra effect.

Many communities are concerned about unintended light pollution caused by typical LED deployments. Our lens technology directs light to improve safety without the typical “bleed” into unintended areas.

CREATING MASSIVE **SAVINGS**

ACDOB lights save time and money while lasting longer and being more efficient. They also don't discolor over time and maintain the same luminosity, while others lose about 20% their first 6 months.

No Ballast/Driver

Eliminates maintenance costs while saving energy.

Nano Optic Lens Technology

Controls light distribution while eliminating heat/energy created with mirrors.

Cooling System

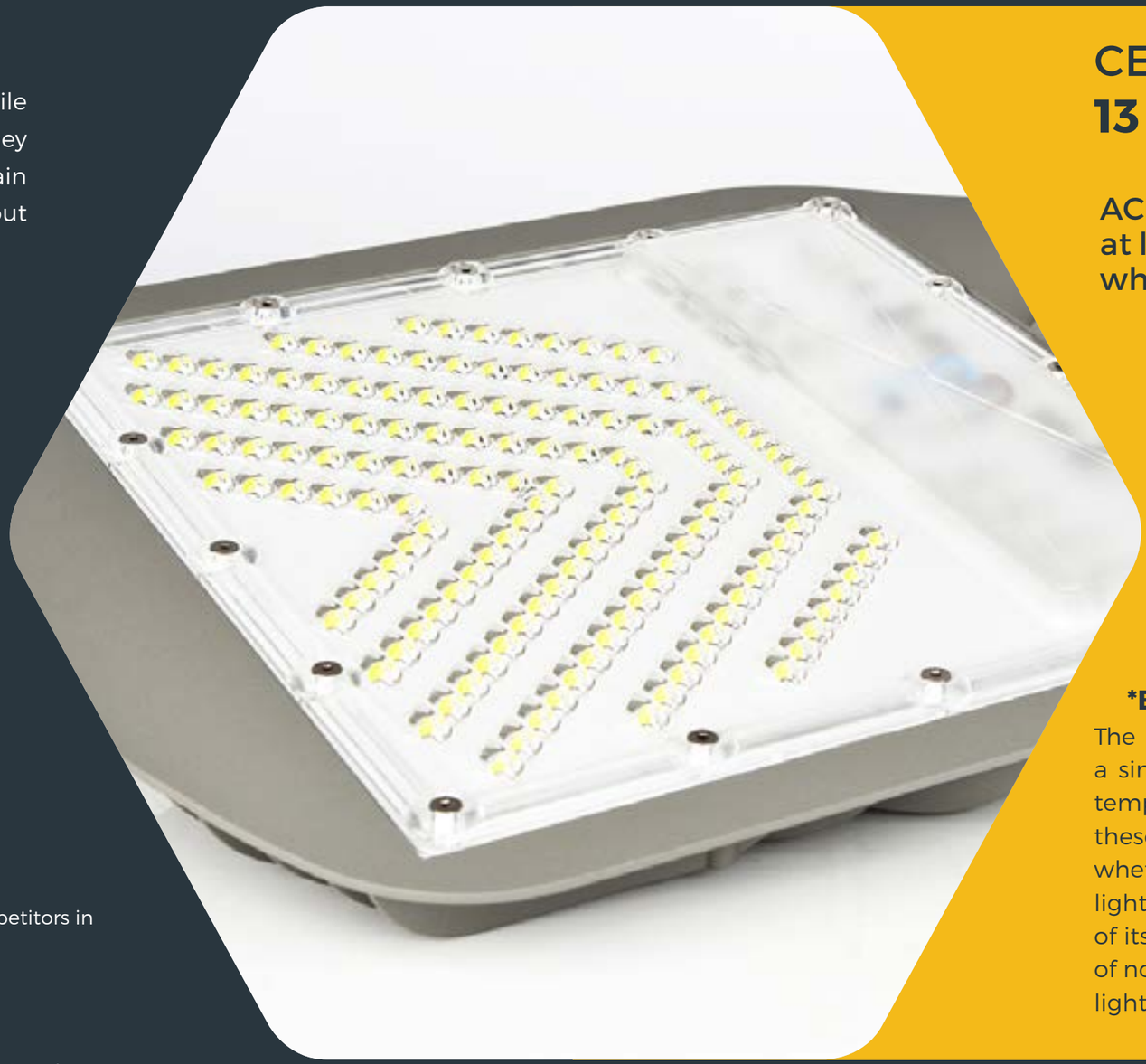
Our state of the art heat sink design allows for better heat distribution.

More Efficient

Our lights are more efficient than our competitors in almost every relevant category (see below).

Certified for 13 years

Our lights last longer, need less replacement and are more durable than modern lights.



CERTIFIED FOR **13 YEARS**

ACDOB lights are certified to last at least 50,000 hours, or 13.7 years, when used 10 hours per day.

- LM-80
- IP-67
- Wind Test : 175 miles/hour - PASSED
- Salt Test: PASSED
- UL Certified
- US Patented
- CE Certified
- Many more

*EXPLAINING THE LM-80 EVALUATION

The LM-80 is a conditions exam created to test a single diode of an LED light among different temperatures, moisture and humidity. While these certifications are awarded based on whether or not the individual diode survives, no light has ever been able to pass the test for all of its components, except ours. The combination of no ballast/driver and an IP-67 rating allows our lights to survive some of the harshest conditions.

LIGHTS IN USE AROUND THE WORLD

Our lights are currently being used worldwide and fitted for many different voltage requirements that is unique to each country

60+ CERTIFICATIONS

We have over 60 certifications including the standard requirements for the United States, Korea, Japan, Europe, Colombia, Mexico, Saudi Arabia and more.

THE TRUE COST OF MAINTENANCE

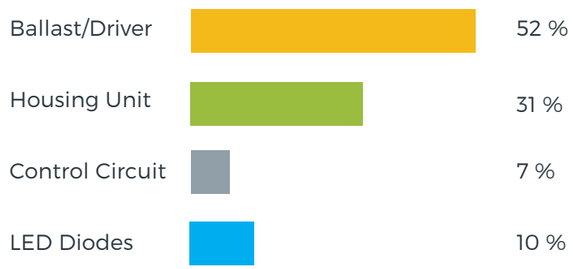
Maintenance is usually an afterthought when it comes to purchasing LED lights. The emphasis is usually on the energy savings which can save up to $90 per light, every year when switching to LED.

The cost of servicing the lights however, can be **as high as $450 per light every year.**

The maintenance savings can be up to 6 times as much as the energy savings

SERVICING & MAINTENANCE COMPLAINTS

According to a recent survey, the reason for failure in LED lighting is the ballast/driver and housing unit. With our ACDOB technology, we have solved these two crucial issues while substantially reducing the collateral effects that cause the other two to fail.

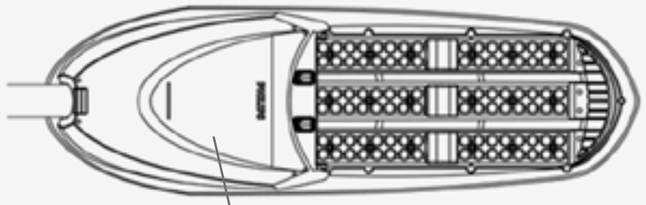


LIGHTING SOLUTIONS & PRODUCTS

- Street Lights
- Parking Lot Lights
- Parking Garage Lights
- High Bay
- ACDOB Smart System
- Stadium Lighting (Coming Soon)
- Explosion Proof Lights (Coming Soon)

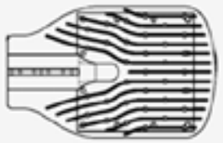
High Bay (pictured)

Comparing to other
LED STREET LIGHTS



PHILLIPS
180W
WEIGHT : 27 LBS

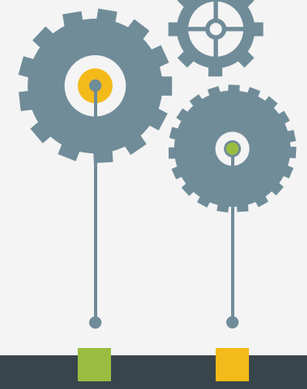
BALLAST/DRIVER - **REQUIRES MAINTENANCE**



ACDOB
135W
WEIGHT : 6 LBS

NO BALLAST/DRIVER - **REQUIRES NO MAINTENANCE**

AC DOB LED
VS
Current LED



Difference with Existing LED Street Lights

AC DOB LED	CURRENT LED
Using a Ballast or SMPS	
NO	YES
Lifespan with Certification (LM-80)	
More than 50,000 hours (With LM-80 test)	Less than 30,000 hours (Without LM-80 test)
Weight comparison of a 90w Light	
5 Lbs (Lightest worldwide)	18 Lbs or Greater
Replacement for 250w Metal Halide	
90w	120w
Dimming System	
YES	NO
IP Class (Degree of Protection against contact, water, dust, etc.)	
IP-67	Nothing or less than IP-65
Efficiency (Amount of Lumens per Watt)	
120 lm/w	Less than 100 lm/w
Consistent Working Temperature	
-45˚f to 158˚f	-4˚f to 86˚f
Power Factor (Amount of power used on the light itself)	
99.4%	75% - 80%
Installation Time	
5 minutes	More than 30 minutes

What the Father of LED lighting & Nobel Prize winning physicist says

ABOUT AC DOB TECHNOLOGY

Professor Nakamura Shuji of Santa Barbara University in California, who is also called the father of LED for his creation of blue LED; said that "AC DOB can be an alternative to make LED lights more compact, efficient and affordable." He also mentioned that "AC DOB is creating a lot of interest from many people."

Professor Nakamura explained that "Generally, LED lights use a different current (DC), and to change DC to AC, you would need to have a separate part called a converter but from the very beginning, AC based LED has not needed this component. The overall light is also simplified for compact design while improving the efficiency".

He also added that "The LED module size can also be reduced" and that "production costs can be lowered".

The professor stated that instead of building heterogeneous LED's upon a sapphire board, homogeneous layer filling technology would become a mainstream in the future; and argued that because of this, a gallium nitride board presents infinite possibilities and will be broadly used in many different applications.

"AC DOB technology can be an alternative to make LED lights more compact, efficient & affordable"

- Nakamura Shuji
2014 Winner of Nobel Prize for Physics

Our company's vision is to deliver a more efficient lighting solution that eliminates unnecessary costs, and challenges the status quo of technical standards.

Our technology was developed in South Korea and the company’s global headquarters is in Miami, Florida.

If you have any questions about a potential lighting project, please call us at 1-786-870-4172 or email us at info@acdob.com

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1628 NW 82nd Avenue, Doral, FL 33126

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info@acdob.com
www.acdob.com