

DuraBrite 

 **SIMPLEX**
TURBULO

DuraBrite 


www.durabritelights.com | 201.915.0555



INCREASED PRODUCTIVITY COMES OUT OF THE DARK.

We call it DuraBrite™. You'll call it the smartest industrial lighting solution you ever saw. Thing is, no matter what it's called, it's easy to see why it's best-in-class lighting technology for all kinds of professional needs.





You see, it's methodically engineered by a group of power, mechanical, and thermal management experts with a 50-year history of developing mission critical electronics for space, aerospace, marine, and the military.

DuraBrite™'s patented LED technology coupled with the military grade highly engineered luminaire packaging techniques offer greater business success. Sectors ranging from municipal safety, recreation and law enforcement to national defense and the marine and boating industries call upon DuraBrite™ to support and protect their workforce as the products are designed, built, and tested to survive the harshest elements on earth. Take a closer look at DuraBrite™ and see how it helps turn darkness into a profit center.

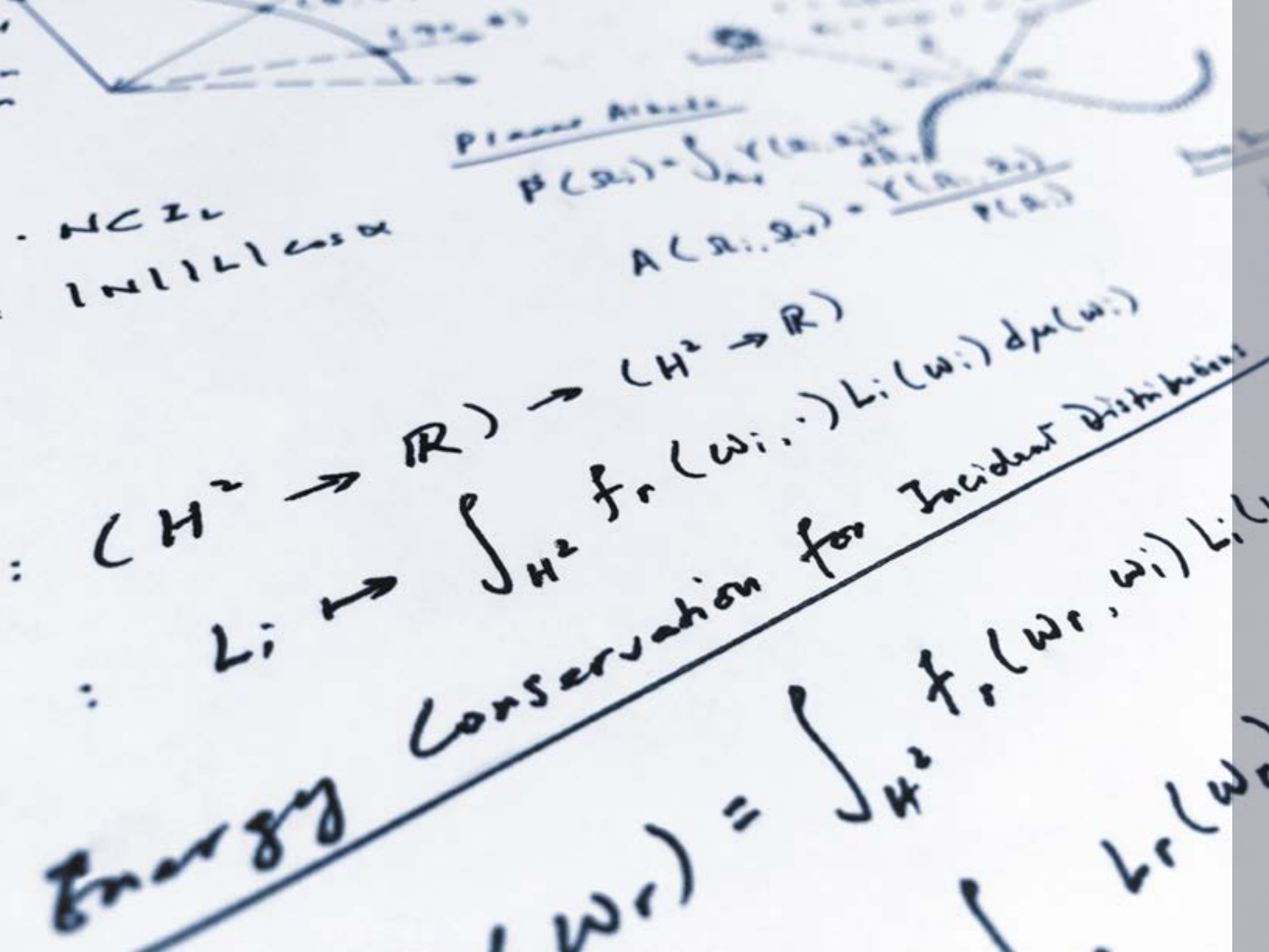
OUT OF MANY, COMES

ONE.

DuraBrite™'s exclusive layout of the bulbs is designed to minimize shadows or gaps of the optical output. Each luminaire consists of 21 bulbs in the mini and 63 in the standard. They all work in unison to create one exceptional uniform light beam.

But, this doesn't happen by chance. It takes years of painstaking research and a fierce commitment to focus on details to craft technology that disrupts conventional thinking.





IT'S NOT JUST INGENIOUS BULB TECHNOLOGY, IT'S ALSO ABOUT A BETTER WAY

TO DIFFUSE LIGHT.

Our diffuser technology changes the beam angle on the Spot at 20 degrees to 76 degrees on the flood using the most advanced material-science and physics-based technology there is in the world. In fact, this state-of-the-art technology is a key contributor to the high efficiency of our lights, as well. In effect, transcending normal light, into DuraBrite™.

We are power and thermal management experts with a 50-year history of developing mission critical electronics for space, aerospace, military and marine markets. Our thought leadership in the field consists of industry leaders such as Dr. Engin Arik and Dr. Seth Coe-Sullivan, two of the most highly regarded thinkers in the electrical engineering field. Each provides DuraBrite™ with the ability to re-define principles of light for enhanced industrial use.



EVERY LITTLE DETAIL IS

BIG

DOWN TO A SINGLE SCREW.

DuraBrite™ products use the world's most resilient sealing screws, with O-ring self-sealing fasteners capable of withstanding operating temperatures from -300 °F to +500 °F. This way, extreme temperature limits will not affect "positive seal pressure." Self-Seal fasteners are designed and manufactured with a cold-formed groove beneath the head of the fastener. As it is tightened, the O-ring is compressed. This squeezes the O-ring between the groove and the mating surface to complete the seal. The design of the groove controls the amount of compression to the O-ring. And because O-rings retain their elastic memory, Self-Seal fasteners are reusable time after time.

DuraBrite™ products are consistently well thought out to maximize the delivery of light on an elevated level, more than our competitors. The attention to detail that goes into our meticulous design may seem too small for others, but to us they're big. Put, quite simply, we will never sacrifice quality for expediency.

IMAGINE IF LIGHTS COULD BREATHE.

What would it mean if lights could breathe? Well, our lights have a venting system that prevents build up of condensation, which can “fog” the light. The venting system equalizes pressure, so the light won’t go out of shape. In other words, the lens will always look perfectly flat no matter how many days it’s put to use and no matter where. And finally, since there is no pressure differential, the seals won’t be compromised over time and the IP67 waterproofness rating can be maintained for the entire life of the product. Water vapor is drawn out, but water droplets can’t come in. 90% of other lights on the market do not have this feature. DuraBrite™ draws on substantial experience from aerospace and military electronics design, so we have implemented Gore vent technology successfully in many projects. This inclusion of innovative third party materials is yet another indication of how DuraBrite™ delivers a superior product.





PLASTIC DOESN'T CUT IT

HERE.

Some use plastic because its an “easy” way to design, we prefer the “best” way to design, so we use an advanced engineering composite called Ultem 2300 to construct the frame around the fixture. It's 30% fiber reinforced. In fact, the glass fiber used is essentially the same material employed to make state-of-the-art aircraft fuselages. It is an amorphous, high performance polymer with exceptional flame and heat resistance. Widely used in packaging products for aerospace and military due to its ultra high operational abilities and lightness (replaces the function of metal) this material offers outstanding high temperature resistance, high strength and stiffness (ultra high mechanical performance to weight ratio), strong chemical resistance, and has the highest UL94V0 flame resistant rating. And as for extreme weather conditions, it can be used continuously at 340°F and down to -67°F.



UNIFORMITY + CONSISTENCY

Our lights display rare consistency. There is uniformity of temperature among all the bulbs. At all times there is never more than a 10 degree C difference between the hottest and the coolest bulb, resulting in consistency of brightness for each luminaire. Every light is thermally imaged to make sure temperature homogeneity consists across all LED chips.

When you add it all up, our innovative technology, thorough attention to detail, cutting-edge materials, and honed thought leadership results in one superior product.

A POWERFUL DUO.

AN OPTIONAL ELEMENT, TO HELP BEAT THE ELEMENT.

Introducing the Ceramic Pro Super Hydrophobic Coating for Industrial use - optional with DuraBrite™.

Factory applied or field retrofitted, this coating will turn your DuraBrite™ investment into a self cleaning, UV resistant, game changer for all kinds of tough applications, including marine and construction. Its nano-ceramic technology brilliantly protects surfaces against corrosion, oxidation, and chemicals. Its super hydrophobic properties leave a nice glossy finish and provide a new level of preventative protection never available before. In fact, it protects against so many harmful elements your equipment is ruggedized enough to take on challenges you never would before.





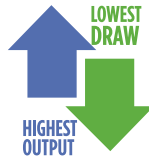
THE FUTURE IS BRIGHT FOR YOU AND DURABRITE™.

Put DuraBrite™ to work for your industrial or marine projects.
To schedule an exclusive demonstration of our revolutionary lighting systems
please call 201.915.0555 today.

DuraBrite™ Standard Series

Key Features

- 35,000 lumens
- Beam angle 76° for DuraBrite™ Standard Flood
- Beam angle 20° for DuraBrite™ Standard Spot
- 180W at 12V, 270W at 24V
- DC Input Models: 12VDC / 24VDC / 32V / 48VDC
- AC Input Models: 90VAC – 305VAC
- 5000K cool white optics
- Daylight Shutdown (Ambient Light Sensor) option
- Patented optical circuit
- Stainless steel bracket included
- IP67 Certified
- Dimensions: 19.3" x 14.6" x 3.5"
- Black or White exterior
- Designed & Made in U.S.A.



DuraBrite™ Mini Series

Key Features

- 16,670 lumens
- Beam angle 76 ° for DuraBrite™ Mini Flood
- Beam angle 20 ° for DuraBrite™ Mini Spot
- 100W at 12V, 144W at 24V
- DC Input Models operated both at 12V and 24V
- AC Input Models: 90VAC – 305VAC
- 5000K cool white optics
- Patented optical circuit
- Stainless steel bracket included
- IP67 Certified
- Dimensions: 12.9" x 8.3" x 3.1"



DuraBrite™ GO Portable Light

AN LED WONDER AT THE INTERSECTION OF PORTABILITY AND INGENUITY

Our innovative engineers have answered law enforcement's calls for portable, high-performance, low-draw LED lighting solutions. Weighing just under 20 lbs, the DuraBrite GO merges the attributes of our popular MINI series with the addition of wireless technology, four mounted legs, industrial strength housing, secure bolted handle for convenient portability, and multiple USB inputs for charging many devices at once.

DuraBrite GO alleviates fuel costs associated with portable generators and because of safe, fuel-less operation, it can greatly reduce hotel insurance premiums. A self-sustaining battery powers this little dynamo for up to 24 hours - or potentially many weeks - based on measured usage. No fuel makes it non-flammable, and the DuraBrite GO can be used in-door and outdoor, providing powerful LED lighting to hallways, guest rooms, common areas, courtyards, maintenance projects, pre-opening construction, and emergency operations.

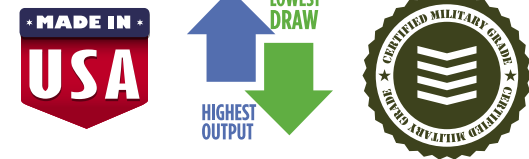


DuraBrite™ Nano

The Durabrite Nano is designed to lead the outdoor ruggedized lighting segment and to forge a class of its own. “Form follows function” describes our design approach. Every aspect is meticulously engineered and optimized to produce a clean, modern look, yet to exude sophistication. Even the least trivial detail such as the 45 degree bevel edges exist for a technical reason

From the very beginning, Durabrite set out to design a new premium lighting product that is compact, light-weight, rugged, durable, and highly versatile to offer users the freedom of where and how they wish to use the light. The result is a dimmable 7000-lumen unit that measures only 1.9” thick and weighs merely 2lb, the slimmest and lightest on the market. The Nano’s versatility, nevertheless, is much greater than it seems. It can be assembled, easily by the users, into numerous light bar configurations of different colors, optics, and lengths, thanks to the cleverly designed mechanical and electrical interconnects.

These configurations will be well suited for, but not limited to, recreational and commercial boats, pickup truck and Jeep type adventurous vehicles, augmented lighting for snow plows and tractor trailers, as well as any types of residential and commercial buildings, yards, and architectures, limited only by the users’ imagination.



Structurally, multiple Nano’s can be stacked by means of connection pieces that offer fastening orthogonal to four integrated dowel pins on either side, which are used for alignment, rigidity, and anti-rotation control. In between the heat-sink fins, mounting provisions are also available for stiffening bar installation to significantly increase flexural rigidity of the stacked light when a certain length is reached. The stiffener is designed to achieve superior vibration resistance with the first resonant mode exceeding 200Hz.





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Simplex-Turbulo is part of the **SLX** GROUP

DuraBrite 

To schedule an exclusive demonstration of our revolutionary lighting systems please call **1.201.915.0555** today.