



# SMART PRINTING

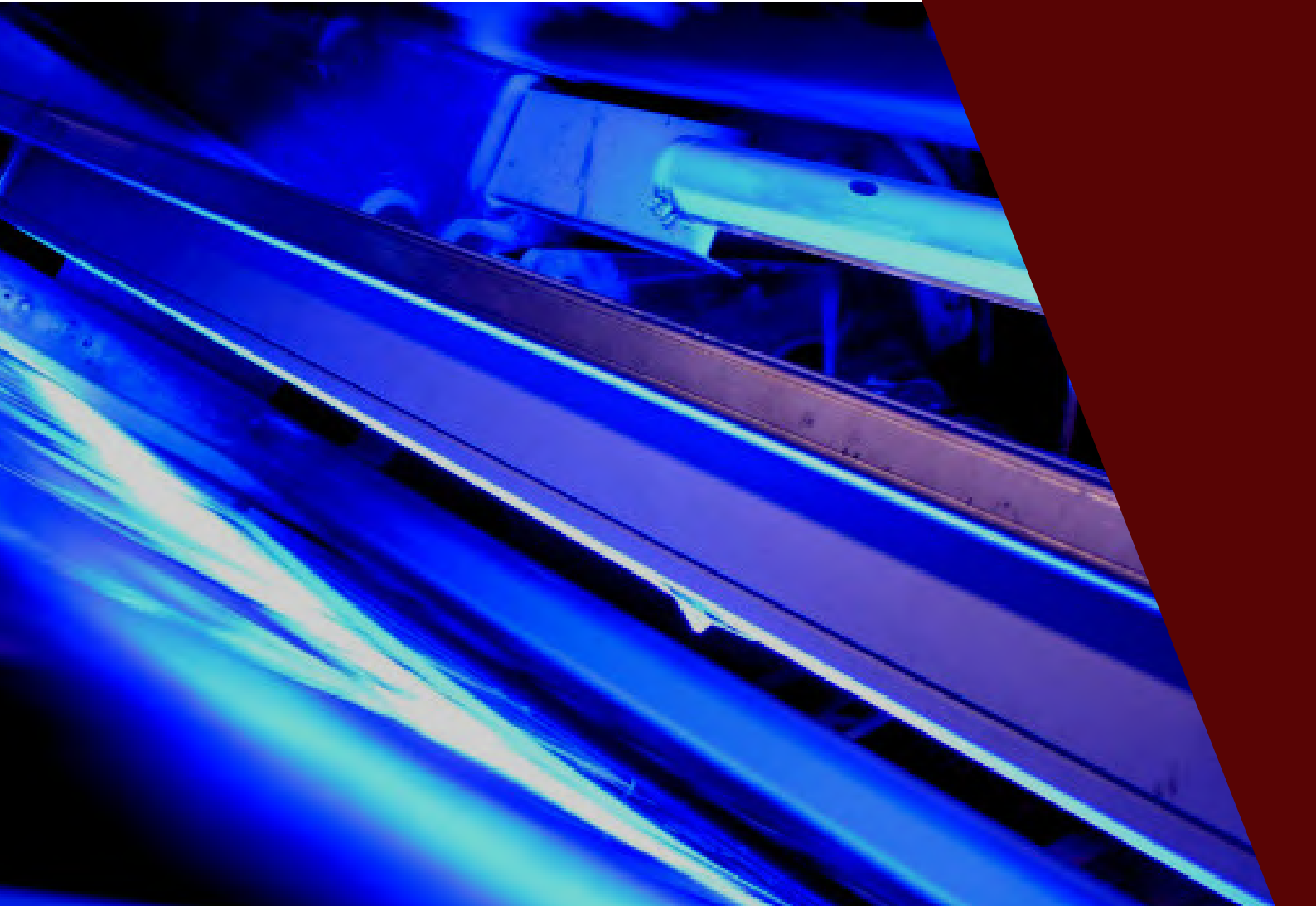
INTEGRATED ENERGY EFFICIENT  
SOLUTIONS



LIC SUSTAINABLE SOLUTIONS

[WWW.LIC-EU.COM](http://WWW.LIC-EU.COM)

THE NETHERLANDS  
SPAIN  
GERMANY  
COLOMBIA  
QATAR  
HONG KONG



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***At LIC we develop a catered service for a changing ecosystem, empowering our customers to shape their energy consumption.***

We turn challenges into opportunities, and take our knowledge of LED illumination and our pioneering digital solutions to set the core structure for Smart buildings and cities. At LIC we are convinced that the combination of digital technology, illumination, and energy potential is the key to mastering our society's increasing expectations.

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**BAS VAN BAKEL**

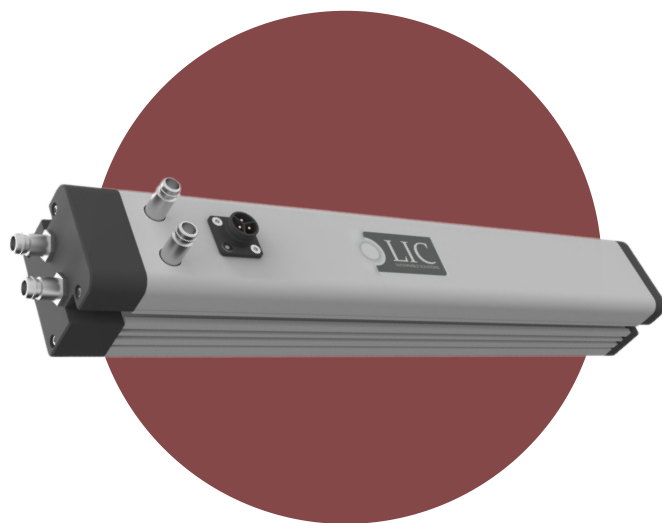
CEO




*LIC Sustainable Solutions Group*



# LED-UV CURING LIGHT

## LIC2101001 SERIES



<b>Power</b>	20 - 40 Watt/cm <sup>2</sup>	<b>Driver protection</b>	Overvoltage, overcurrent temperature, short circuit
<b>Input Voltage</b>	AC100 - 277V/380V	<b>Product materials</b>	Aluminum alloy Tempered glass 4mm
<b>Frequency</b>	50/60Hz	<b>Isolation material</b>	EPDM
<b>Wavelength of LED</b>	365nm, 385nm, 395nm, 405nm	<b>Cooling Phase</b>	Water cycle cooling
<b>IP-rating</b>	IP65	<b>Optimum curing distance</b>	2-5cm for label printing, 5-8cm for outdoor advertisement printing
<b>IK-rating</b>	N/A	<b>Lighting Beam angle</b>	30°/ 45°/ 120°
<b>Dimming</b>	0 ~ 100%	<b>Surge protection device</b>	12.000 Volt
<b>Operating temperature</b>	-20°C~ 50°C	<b>Product certification</b>	  
<b>Product life cycle</b>	50.000 Hours		
<b>Standard warranty</b>	2 years		

# LED UV CURING

LED-UV curing system is the most efficient drying system in the printing industry. It allows for instant drying of printed goods, requires fewer materials than other conventional curing methods and consumes less energy. The incorporation of the LED-UV curing system will improve the quality of printing products, reduce printing time and reduce CO<sub>2</sub> emissions.

LIC Sustainable Solutions develops and produces LED solutions with world-class quality, ensuring secure long-term investments for our customers around the world. By utilizing top-tier module components and working with industry's premier providers of system solutions, LIC is able to stay ahead of the demand curve and offer innovative, tailored curing technology to meet customers' varying performance and needs.

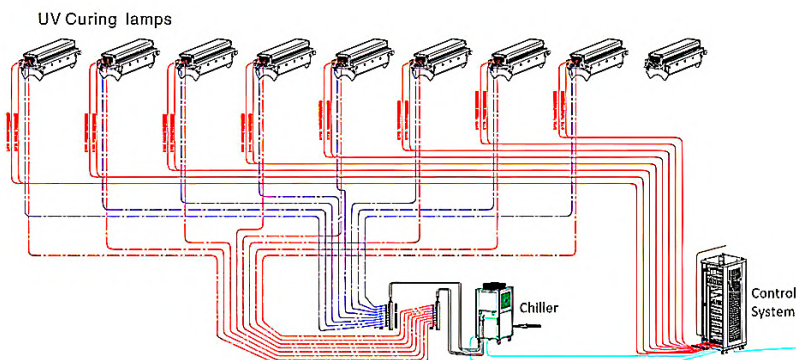
LIC Sustainable Solutions designed a curating LED-UV system for the printing industry. This design is one of the most cost efficient in the market and features as a low end alternative that provides high quality results & instant drying.

## WHY LED CURING?

- The use of a single LED luminaire on machines ensures that prints come out cured instantly.
- LED-UV technology allows the reduction of the use of powder spray.
- Prevents scratches, re-paints, ghost printing, and other printing problems caused by drying.
- Eliminates waiting and perfecting times problems, and shortens the finishing process.
- Versatile with printing on non-porous materials, such as plastic, and with specific varnishes of ultraviolet technology.
- It will enhance the brightness and definition of the printed goods.
- Saves energy and avoids the use of mercury, which reduces heat production, reducing your carbon footprint and ozone production.

## WHY LIC?

- **Adaptability to all models:** This curing system can be set up on different machinery of different kinds regardless of size and printing mode.
- **Component uniformity:** LIC works with standardized features, allowing for versatile updates and replacements.
- **Modular and adaptable:** This LED-UV solution is scalable and is modular to the changes and colors of presses.
- **Fast delivery times:** From design to fabrication to delivery, all production processes are handled in-house allowing LIC full control over delivery times.



# OUR TECHNOLOGY

- COB (Chip on Board) LED
- Waterproof structure and heat sink for keeping the structures steady and high quality
- High efficiency, low heat, energy-saving, eco-friendly and long-lifetime
- Water cycle cooling
- Depending on the required power level, the length of the lamp, and the form factor required, we offer different lamp systems with different cooling methods to meet a vast array of UV irradiation applications



Maintenance free, sturdy design



No moveable components



Segmented LED Output Option matches format width and reduces energy consumption



Built-in condensation protection which protects diodes from humidity

# LIC GRAPHICS

LIC Sustainable Solutions after several years of developing LED technology for illumination, decided to expand its technological achievements into the printing industry.

Accompanied by experts with over 30 years of experience in the graphic arts sector, LIC has developed LED-UV curing solutions that are versatile for different types of machinery at an accessible price range.

LIC's curing solutions are flexible for all kinds of printing works, as well as for different color quantities and different types of ink. As for the product design, our brand is consistent with its components, allowing for fast and efficient maintenance and for future arrangements for the expansion or reduction of the curing system.

## TECHNOLOGY



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## LIC LED

LIC Sustainable Solutions is a Dutch organization that specializes in the development, production, and implementation of standard and customized LED applications.

LIC designs its own lighting plans based on products from its own portfolio. If not available, we develop the application that is unique and perfectly tailored to the situation. LIC has offices in the Netherlands, Germany, Spain, Colombia, Panama, Qatar and Hong Kong from where projects are carried out in more than 20 countries on 4 continents.

The product range has expanded rapidly in recent years to give more substance to sustainable solutions in terms of energy-saving, sustainable energy generation, and power quality.

# LIC SUSTAINABLE SOLUTIONS GROUP

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