

The world's first printed lighting on glass.

Inspired by beauty, coolness and tranquility of the moon.

By Philip Kwang.



LES was introduced as “the world’s first printed lighting on glass” when it was presented as one of the winners of an A*Star’s T-Up Excellence Award in 2013.

In 2014, Singapore’s Business Times also paid tribute to it with a glowing headline “Facade’s Romantic Moonlight”. They went on to further to describe LES Glass as a lighting system that would challenge Thomas Edison’s idea of a “light bulb”.

A light without a bulb

“We just invented a glowing light on flat glass surface and it became **a light without a bulb**” explained Mr Philip Kwang, the inventor of LES Glass and a director of Façade Global Master Pte Ltd and SG Glass Innovation Master Pte Ltd.

Mr Edison’s light bulb or point source lighting has been the cornerstone of every lighting system today, including the regular LEDs and many different lighting fixtures.

Point source lighting accounts for the different levels of pixilation we see on most of the LED screens and also on LED linear lighting strips.

Light Emitting Surface

LES, which stands for “light emitting surfaces’ has no diodes, no bulb and therefore no pixilation whatsoever!

What you see is a smooth even wash lighting, as smooth as the glowing light reflected from the surface of the moon.

Replicating the light from the moon – glowing by design, lighted on Glass

It's a moonlight glass that “glows by design and lighted on glass” explain Mr Huang Ming, managing director of SG Glass Pte Ltd, co-inventor, manufacturer and commercialization partner of LES Glass.



Most, if not all of the regular lighting systems today are also the primary sources for heat and glare. Heat and glare are also a huge turn-off for near proximity comfort. Therefore the challenge for the lighting industry has always been to reduce the heat and glare with no known level of success.

Light emitted from the moon on the other hand glows radiantly in the sky and can be seen clearly for the longest distance. Most important of all, it comes to us without the heat and without the glare!

“This is also why LES is produced in the full glory of the moonlight”, emphasized Mr Huang.

The moon represents my light

LES is the nearest equivalent of the moonlight so mysteriously re-produced on planet earth. It enables the world to “see the moonlight in a new light”. The soft glowing light from LES Glass

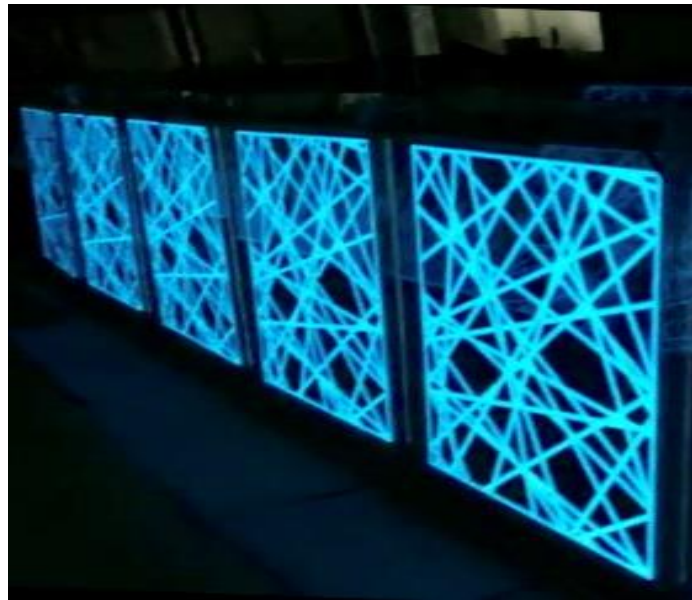
oozes the coolest and the most mystical moonlight. It represents the greatest sense of peace and romance, popularized by the all-time favorite mandarin song “The Moon Represent My Heart”. In the context of LES Glass, we would of course like to think of it as “the moon represents my light”



SG Glass’s factories and R&D centers in China and Singapore are churning out some of the largest and most beautiful LES Glass, ready to be shipped to markets around the world. This success was made possible only after Mr Huang and his dedicated team had put in onerous hours of further research and foreground IPs to perfect the system.

Façade Lighting

Super large format LES Glass has been successfully deployed at the highly innovative “Pop-Out Lab” in Guangzhou, China. Their discerning founders would accept nothing short of a groundbreaking innovation to boost their highly innovative corporate profile.



Balustrades

LES Glass is an excellent media for lighting up glass balustrades

Beyond beauty and pragmatism.

Looking beyond beauty and romanticism is the need for pragmatism. In a typical facade lighting system, separate glass elements and separate lighting equipment are installed by workers with different skill sets. This drive up the overall cost, lower productivity and diffused the lines of responsibility, especially in the event of a dispute. It punishes the users and impeach the proliferation of facade lighting. Another grave concern is the need to address fire safety in a building.

The solution - Glass Integrated Lighting

LES is engineered to satisfy the facade industry’s demand for a “glass integrated lighting” product to reduce cost, increase productivity and ensure fire safety. This comes right at the time when plastic based lightings are increasingly being dunked in favor of non-combustible façade lighting made with glass. The cost benefits for switching to LES glass are obvious, substantial and immediate!



Out-Of-Home Display

LES's vast market potential is not just restricted to facade lighting.

In fact, out of home advertising display system, such as in an airport, which typically use thick and bulky light boxes frames can also benefit from the slim and sleek back light panel from LES Glass. To LES, back lighting needs nothing more than a piece of frameless flat glass mounted on the wall. Therefore, LES is also known in the market as a "light box without a box". Many large advertising companies are already looking at this design option to drive their next wave of product innovations.

LES Glass can also be used in almost every consumer products for glow-in-the dark decoration, typically for upmarket branding and for product differentiation.



Vanity Mirrors

A vanity mirror made with LES reflects nothing but the most accurate skin color tone from the mirror, thus enabling you to see yourselves in the fullest glory.

Driving all these product innovations and applications are just some of the unique selling points of LES. We are sure that there are many and much more applications out there waiting for LES to translate and transform them to even greater products.

"We may or may not know of every potentials but we do know that the potential for deployment of LES is vast and unlimited" said Mr Huang.

With LES, you will enjoy the soft glowing effects of the moon right in your living room, exactly like the way you would enjoy a romantic walk in the park, bathed in the glorious moonlight.

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