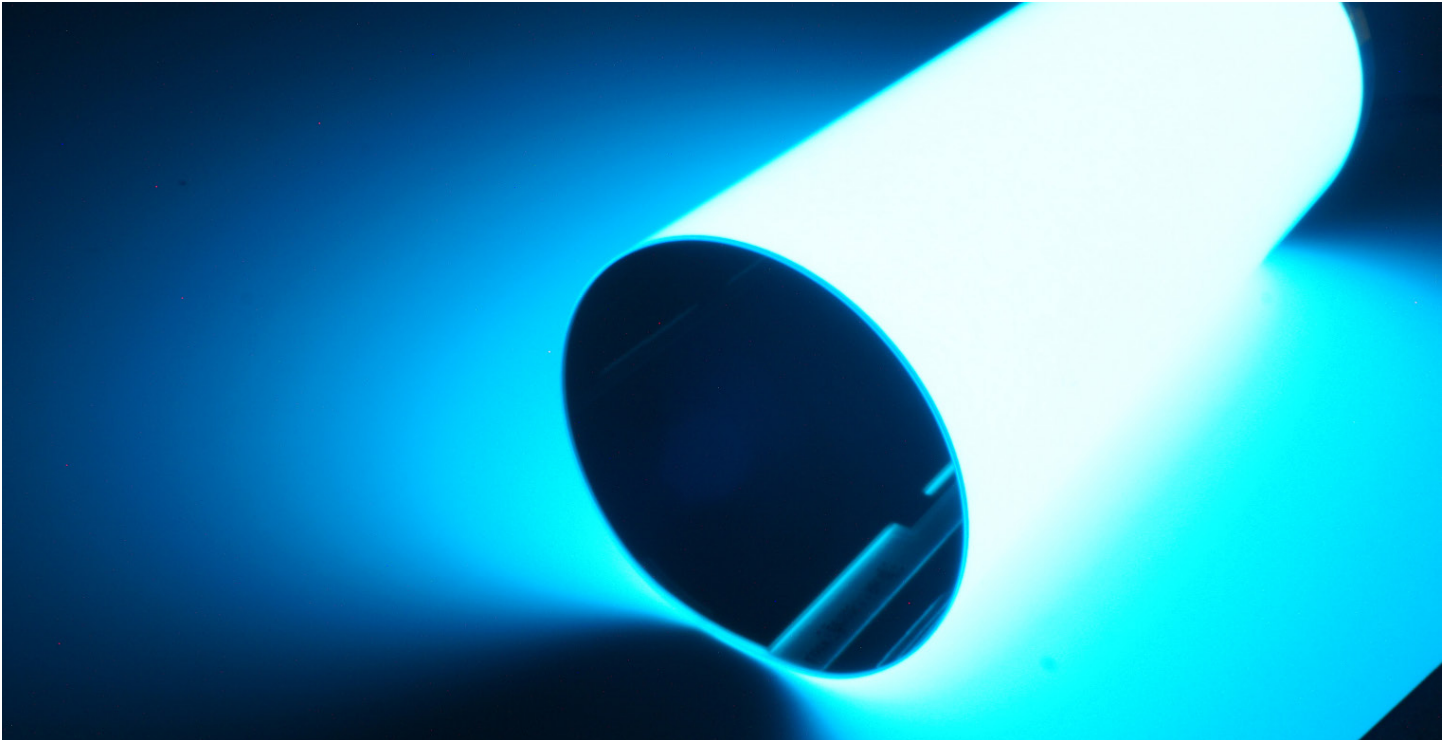


# EL Lamps



## Luminescent Colours in Various Shape Imaginable

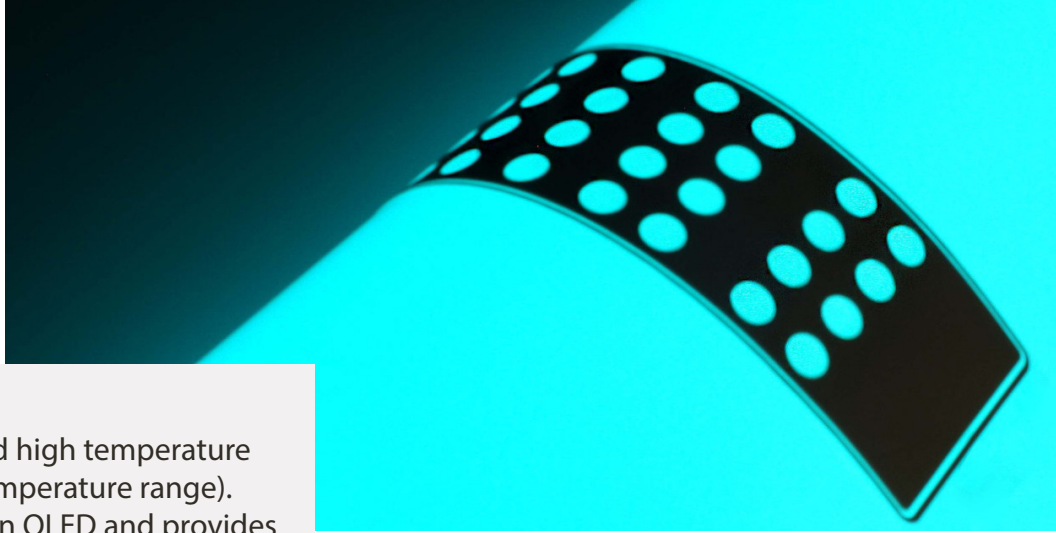
Pleasing to the human eye with homogenous visual consistency, e<sub>2</sub>ip's Electroluminescent (EL) Lamps illuminate full surface designs using phosphor to directly channel an electric current, generating light. Curved light, spherical light, or light with sharp, clean lines. If you can imagine it, we can illuminate it with EL Lamps.

### HOW DOES IT WORK?

EL Lamps use high-field electroluminescence. This is the non-thermal conversion of electrical energy into light energy, which is also found in LED and OLED technology. EL Devices produce light by electrifying high-energy electrons in phosphor materials such as ZnS: Mn. In EL devices, a layer known as the activator allows the whole layer to emit light, bringing new possibilities to experiential design.

### EL lamps are perfect for applications such as:

- Night lights
- Wall decorative illumination
- Durable waterproof displays
- Medical tool display screens
- Decorative luminescent clothing

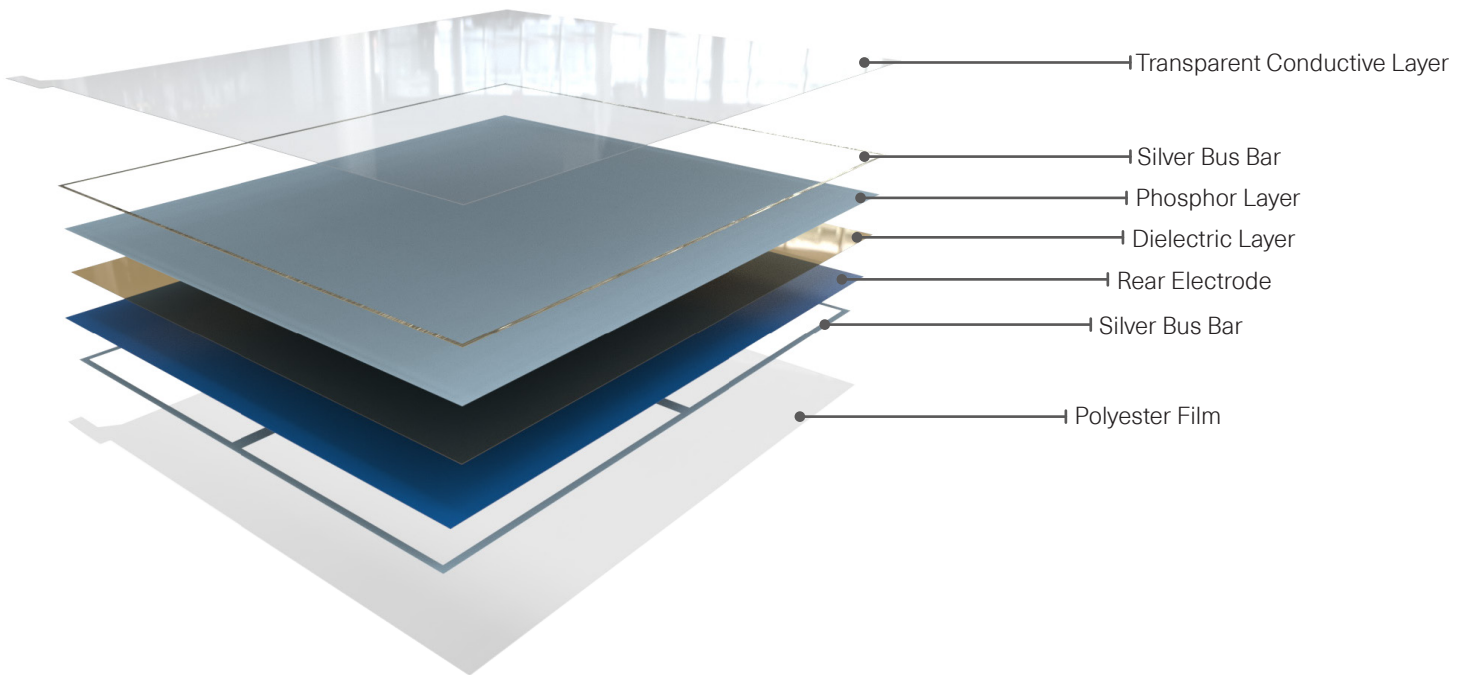


EL Lamps are able to endure low and high temperature (work in impressive  $-30^{\circ}\text{C}$  to  $70^{\circ}\text{C}$  temperature range). This technology is lower in costs than OLED and provides an excellent visibility - light can be seen in darkness, remote distances or foggy environments.

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### EL Lamp's composition



### Environmental Specifications

<b>AC Power supply</b>	110V – 400 Hz
<b>Lifetime Humidity</b>	60°C 90%RH
<b>Lifetime</b>	1000 hrs
<b>Thickness</b>	Below 250 µm
<b>Min Bend Radius</b>	12.7 mm
<b>Operating and Storage Temperature</b>	Operating : -40°C and 75°C Storage: -50°C and 85°C
<b>Max. Size</b>	70 cm x 105 cm
<b>Electrical Interface</b>	Power (50VAC - 400VAC) 100-600 Hz
<b>Luminance</b>	White (Approx. 10 FL) Blue Green Version (Approx. 13 FL)



**Transforming the surfaces we  
touch in our everyday lives.**

For more information, speak with  
a specialist at e<sub>2</sub>ip technologies.

We're always looking forward to  
hearing from you!

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