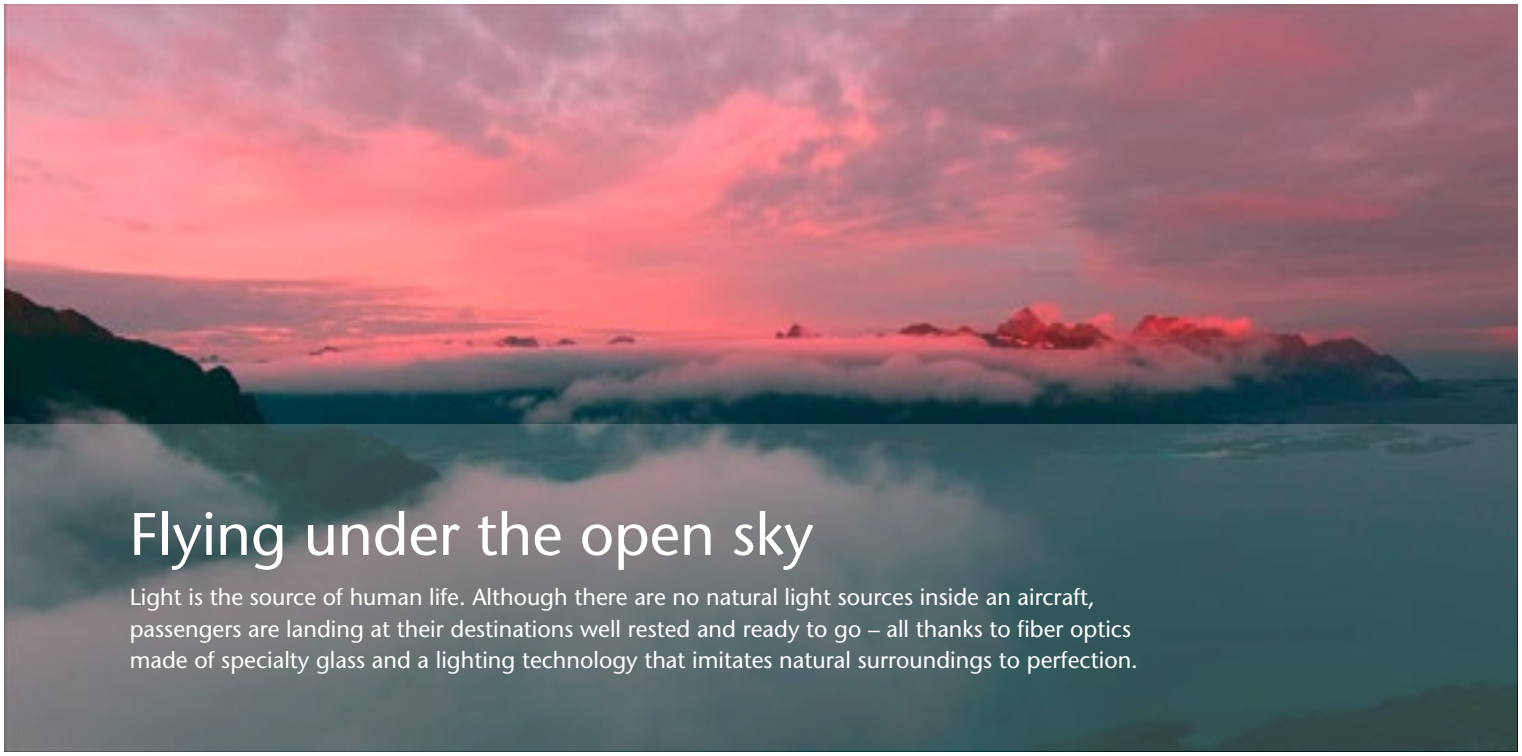

Flying under the open sky

Light is the source of human life. Although there are no natural light sources inside an aircraft, passengers are landing at their destinations well rested and ready to go – all thanks to fiber optics made of specialty glass and a lighting technology that imitates natural surroundings to perfection.

Challenge

Above and beyond

Imagine being able to experience the sensation of flying with no signs of the aircraft surrounding you! This is exactly the challenge the airlines are currently facing:
To remove the barriers of interior space and introduce the expanse of the skies.
The key is in the lighting. The task is to be able to control it for every moment.

„If we can provide the right lighting, passengers can experience the immensity outside the aircraft even if absolutely nothing has physically changed inside it. What we are doing is like magic.“

– Prof. Christine Lüdeke, Designer and
Professor at Pforzheim University of Applied Sciences, School of Design

Lighting with a flair for the perfect atmosphere

During passenger boarding, the lighting enlarges the aircraft’s interior. During dinner, a warm honey-toned glow provides a tranquil atmosphere before finally simulating a night sky as passengers doze off to sleep. The next morning, the soft hues of a rising sun greet passengers as they awake. Modern lighting systems based on LED technology make this all possible.

A non-stop lighting ambience on board

With the HelioJet® sensor technology, the immanent weaknesses of LEDs – that their output noticeably changes as they get older or encounter temperature fluctuations – can now be compensated. The light from an LED unit originates from both ends of an optical light guide made of glass and is evenly distributed across the length of the glass rod. A sensor for each LED unit regulates the color quality, ensuring a homogenous light distribution for the entire lighting effect.

Roughly

16 million

color shades, as multifaceted as nature itself, have been generated through this advanced lighting technology. A system of sensors measures every individual LED and regularly matches the colors. Because of this, the lighting is set to create the sensation of experiencing the open skies. The result: Passengers are rested and ready to go upon arrival, even after a flight crossing several time zones.

A high-tech extravaganza

„We became very interested in this feature. It allowed us to add the feature of mood lighting, which is very important. It calms down the passengers in a very nice way.“

– Per Tideus, Head of Interior Cabin, SAS.

The new stars in an aircraft: Specialty glass fibers

Today, elements such as the HelioJet® lighting system or the starry sky stage a perfect atmosphere in the aircraft thanks to their sophisticated use of light. Tomorrow, new lighting solutions will expand the spatial concept of the aircraft to allow each passenger to create a personal lighting experience during the journey. Product designers at SCHOTT are optimistically developing both concepts. The star components needed to make them a reality are there: optical glass fibers. They are extremely thin, and very flexible. Lastly, they offer outstanding light conductivity – for creating a unique atmosphere.

Let’s work together to create the perfect flying experience.

What’s your next milestone?

Contact

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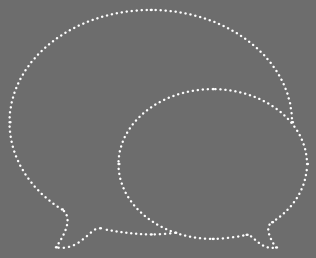

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