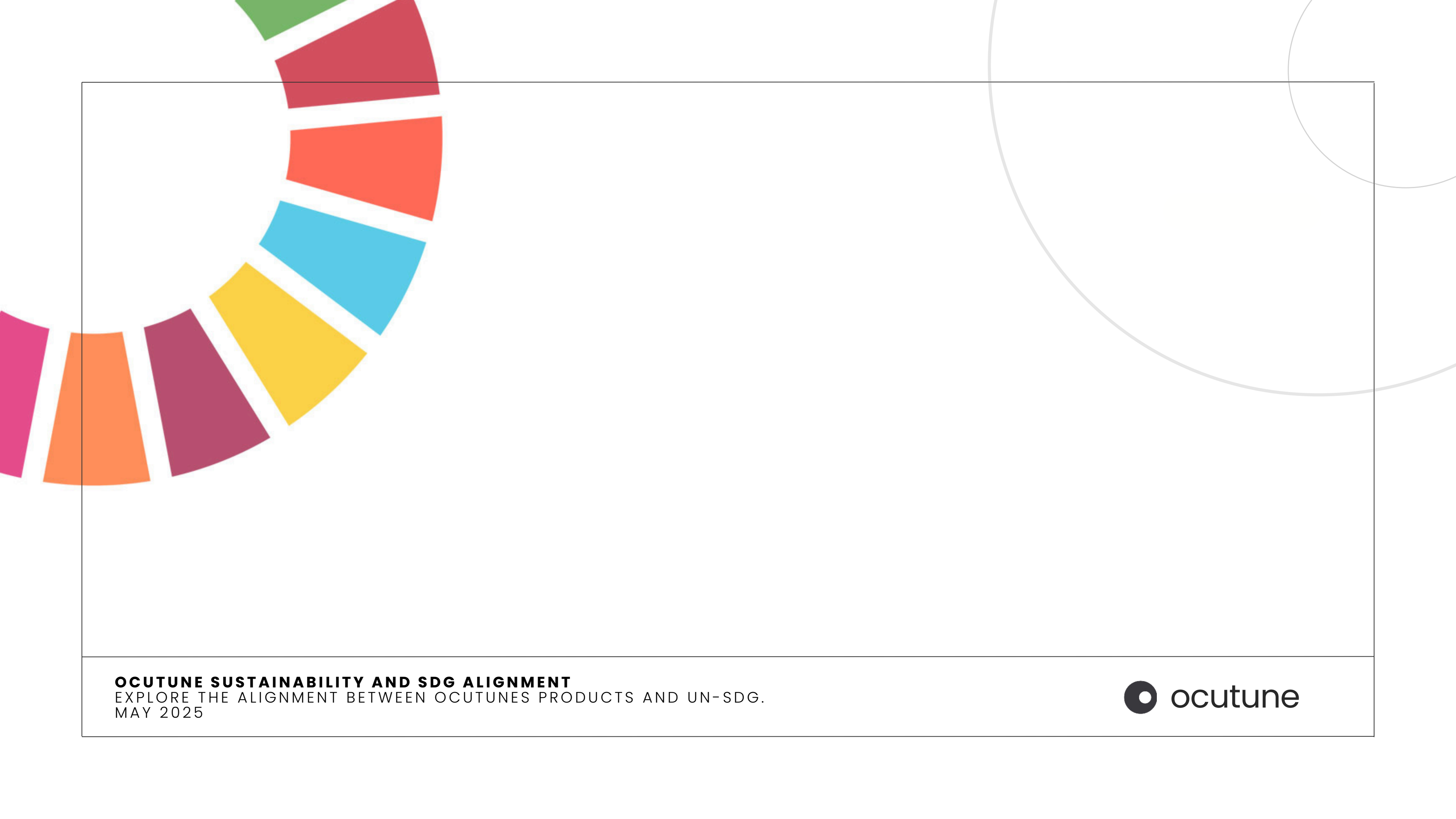




OCUTUNE SUSTAINABILITY AND SDG ALIGNMENT
EXPLORE THE ALIGNMENT BETWEEN OCUTUNES PRODUCTS AND UN-SDG.
MAY 2025



THE GLOBAL GOALS

For Sustainable Development



The United Nations Sustainable Development Goals (SDGs) aim to provide a healthier planet for present and future generations.

These 17 global objectives serve as a blueprint for tackling the world's most pressing challenges, including, climate action, sustainability and responsible consumption.



Ocutune as a company is focused on light and modern behavior to support health, well-being and sustainable lighting. It develops, produces, and systems designed to improve people's and individuals lives through State-of-the-art Lighting solutions and light sensing technology, for individuals, Rooms and Biodiversity.

This White-paper aims to show how ocutune technology can help align with the UN Sustainable Development Goals (SDG).

THE AIM OF LIGHTING QUALITY SUPPORTING SDGs

Lighting Quality is the degree of excellence to which the totality of lighting characteristics fulfils user needs and expectations or other applicable requirements. The degree of excellence is not only a quantitative measure but depends on the application area and covers individual end-user well-being, safety and public security, architecture and the lit environment.

- **Individual Well-being** covers Visability, activity, Social and communication, mood and cofort, health and safety, aesthetics.
- **Economics** covers installation, maintenance, operation, energy, environment.
- **Architecture** covers form, composition, style, codes and standards.

In this sense, Lighting matters, acording to CIE (the International Commission on Illumination), lighting knowledge can support at least 12 of the 17 SDGs. Including important Advances in measurements & calibration.

Source: CIE Research Strategy 2023–2027, J. A Veitch, Ph.D. CIE President 10/10/2024

LIGHTING QUALITY THROUGH THE PROPER LIGHT, AT THE PROPER TIME, IN THE PROPER PLACE



OCUTUNE APS – PIONEERING SUSTAINABLE LIGHT SOLUTIONS

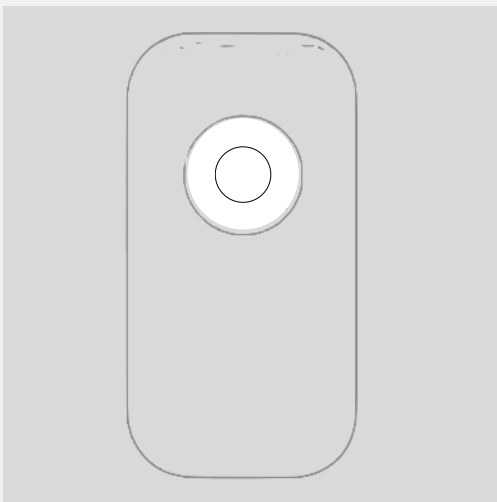
Ocutune ApS is a forward-thinking technology company based in Denmark, dedicated to revolutionizing the way we interact with light. With a deep commitment to sustainability and human well-being, Ocutune integrates advanced sensor technology with smart data analytics to optimize lighting environments in urban spaces, workplaces, and natural ecosystems. By aligning with global Sustainable Development Goals (SDGs), Ocutune provides innovative solutions that balance energy efficiency, environmental protection, and personal health.

Our Sustainable Vision

Ocutune believes that light plays a fundamental role in shaping both human lives and biodiversity. Excessive or poorly managed lighting can disrupt sleep, harm wildlife, and contribute to unnecessary energy consumption. Through science-driven innovation, we strive to empower individuals, architects, and policymakers with cutting-edge tools to enhance lighting efficiency while minimizing negative ecological impacts. By combining science, technology, and sustainability, Ocutune is shaping a future where cities, workplaces, and natural habitats coexist in harmony with well-designed lighting environments. Our Core Technologies are listed below

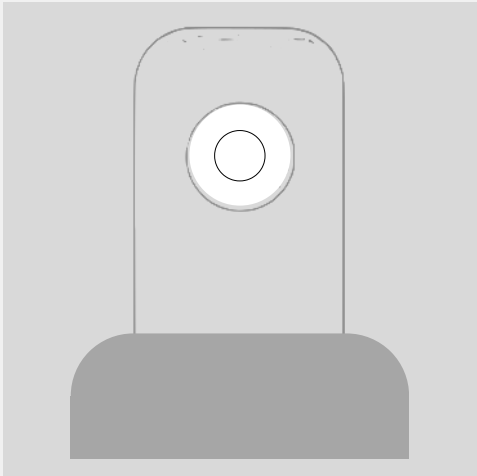
Driving Positive Change Through SDGs

- Ocutune is dedicated to advancing several Sustainable Development Goals, SDGs, including:
- SDG 3: Ensuring healthy lives by improving sleep quality and circadian rhythm regulation.
 - SDG 11: Creating sustainable cities through smart lighting solutions.
 - SDG 15: Protecting biodiversity by reducing artificial light pollution.



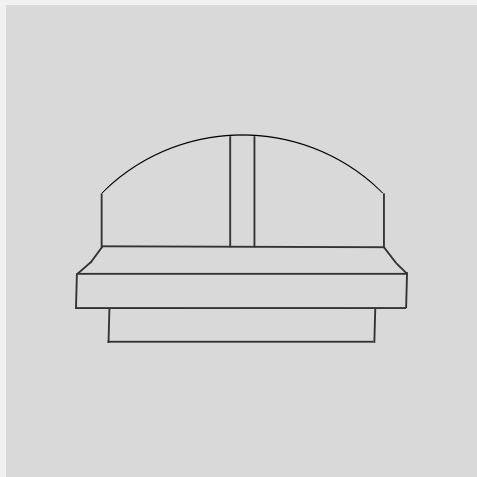
OcuWEAR – The Personal Light Logger

OcuWEAR is a wearable device designed to track and analyze individual light exposure. By measuring key optical parameters such as Lux, MEDI, and MDER, it enables users to make informed decisions that improve their circadian rhythm, enhance well-being, and optimize indoor lighting conditions or improve research outcomes linked to lighting.



OcuROOM – Integrative Lighting and wellbeing for Architecture and Offices

Tailored for architects, office managers and office environments, OcuROOM provides real-time insights into how light influences spaces. Whether used to design healthier workplaces or optimize energy consumption, this solution ensures that indoor environments support both well-being, indoor climate, energy and sustainability.



BioSensor – Light at night for Biodiversity & Health

The BioSensor technology plays a vital role in mitigating ‘light pollution’, improving sleep quality, and supporting biodiversity. By monitoring artificial lighting in outdoor spaces, it helps reduce harmful effects on nocturnal wildlife while promoting a healthier environment for both humans and nature, as well as energy-monotering.

INTEGRATIVE LIGHTING FOR PEOPLE

- Lighting Quality is the degree of excellence to which the totality of lighting characteristics fulfils user needs and expectations or other applicable requirements.
- Integrative lighting is Described by CIE as, Lighting specifically designed to produce a beneficial physiological and/ or psychological effect upon humans. Note, Integrative lighting is only for Humans, and besides photopic measurements, should be measured and reported using the CIE S026:2018 Lighting Standard.

The measurement of integrative lighting plays a crucial role in supporting several United Nations Sustainable Development Goals (SDGs). By examining both visual and non-visual effects of light, integrative lighting research and use contributes to SDG 3 (Good Health and Well-being) by enhancing our understanding of how light influences physiological and psychological processes. Accurate measurement of factors such as intensity, spectrum, duration, and timing helps optimize lighting environments for circadian regulation, comfort, and workplace performance, thereby supporting SDG 8 (Decent Work and Economic Growth) and SDG 9 (Industry, Innovation, and Infrastructure). Additionally, research on integrative lighting emphasizes the need for inclusive lighting solutions, contributing to SDG 10 (Reduced Inequalities) by ensuring that lighting guidance considers a diverse range of geographical locations, cultural contexts, and individual needs, including neurodiverse individuals and those with varying health conditions. Sustainability is another key aspect, as better use of daylight and advances in lighting technology help reduce energy consumption and resource waste, aligning with SDG 11 (Sustainable Cities and Communities) and SDG 12 (Responsible Consumption and Production). Multidisciplinary research focusing on resilient lighting systems ensures a balance between human needs, environmental sustainability, and technological advancements. In summary, the measurement of integrative lighting supports multiple SDGs by promoting health, inclusivity, sustainability, and innovation, demonstrating the essential role of lighting and integrative lighting measurements in fostering a more sustainable world.

Veitch, J. Achieving Good Lighting Quality Integrative Lighting: Opportunities and Challenges. CIE Oct. 2017. CIE DIS 017:2016, 17-29-030.



HOW OCUTUNE TECHNOLOGY CAN SUPPORT THIS AREA

OcuWEAR – Wearable Integrative Lighting Sensor

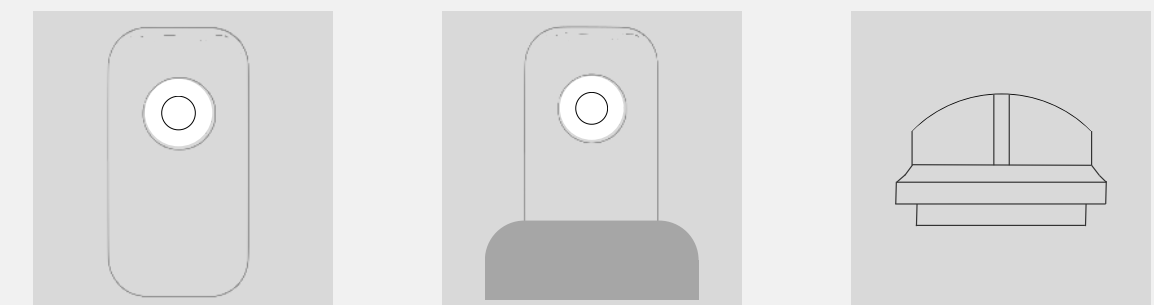
SDG 3: Supports circadian rhythm and health.
SDG 8: Enhances workplace productivity.
SDG 10: Offers personalized lighting for diverse needs.

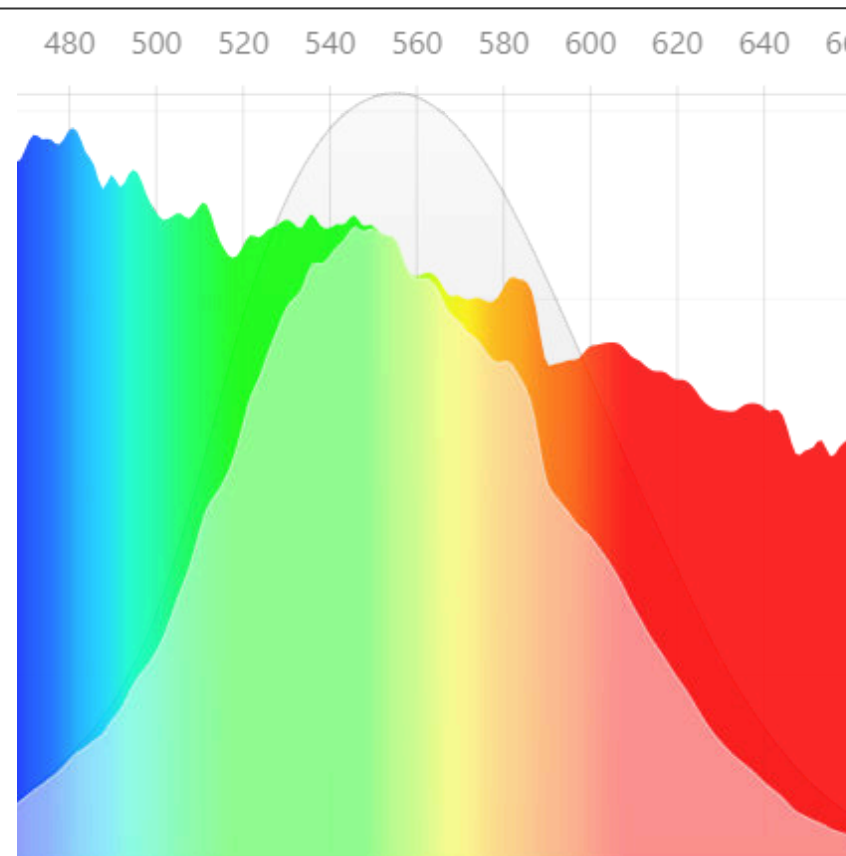
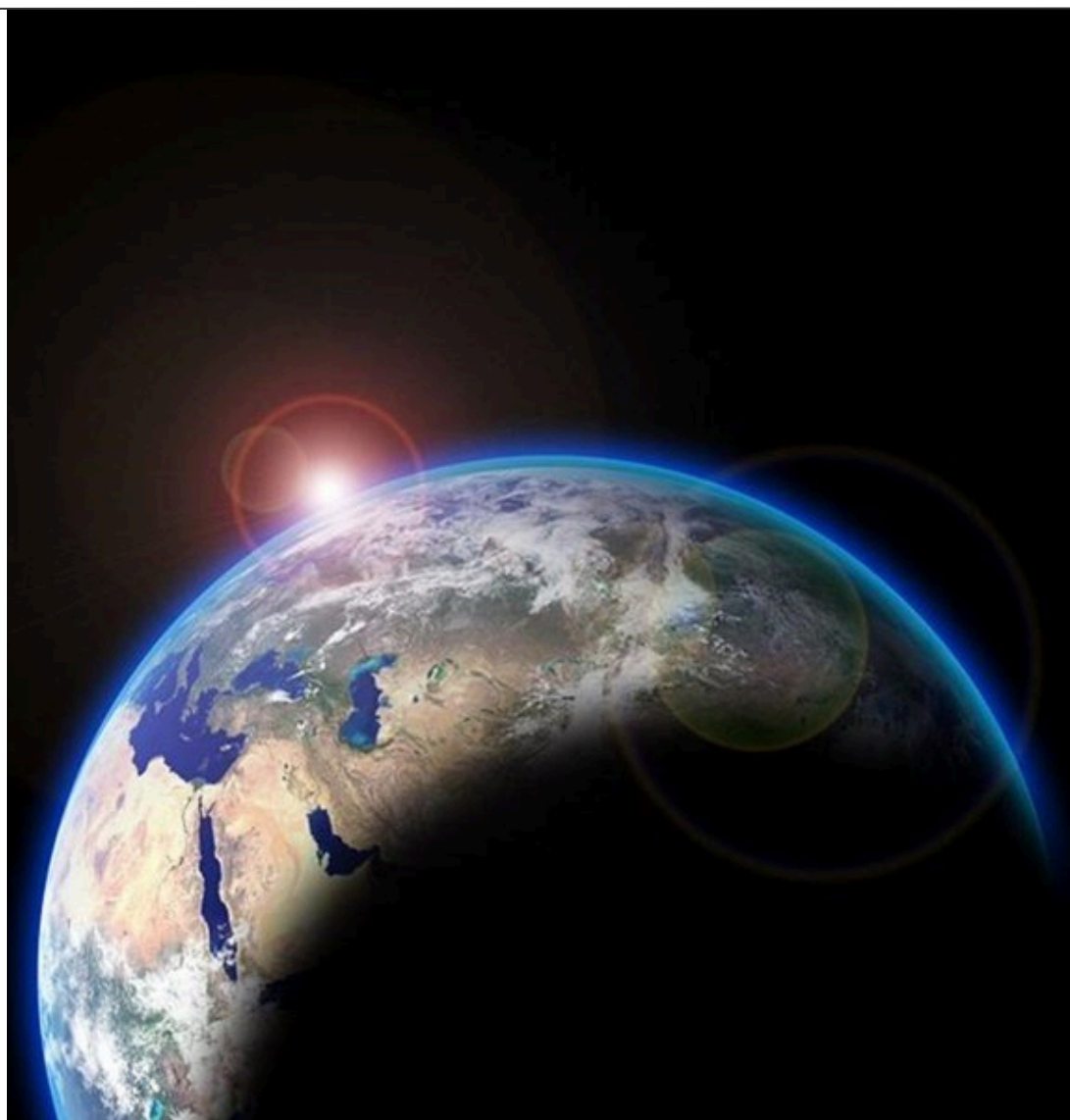
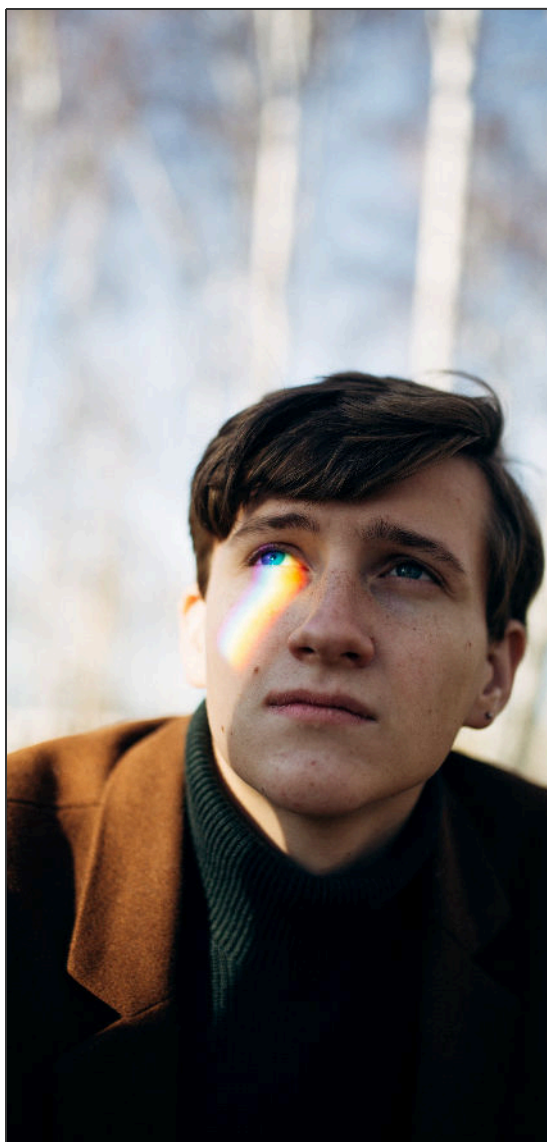
OcuRoom Light Sensor

SDG 3: Optimizes indoor lighting for well-being.
SDG 8: Improves work environments.
SDG 11 & (12): Reduces energy use and resource waste.

Outdoor Smart City Lighting Sensor

SDG 3 & 9: Enhances public safety, health and Infrastructure.
SDG 10: Ensures inclusive urban lighting.
SDG 11 & (12): Supports sustainable cities and smart energy management.





Ocutune ApS
C/O DTU Link
Frederiksborgvej 399, BLDG. 108

DK-4000 Roskilde
Denmark
CVR. 40390766

Email : info@ocutune.com

CONTACT

