



**The correct lighting creates a better feeling and well-being.
The right light, at the right time, in the right place, saves energy costs.**

A graphic for "Smart Lighting" featuring a photograph of a beach with waves and a bright sun in a blue sky. The text "Smart Lighting" is overlaid in a large, bold, black font.

Smart Lighting

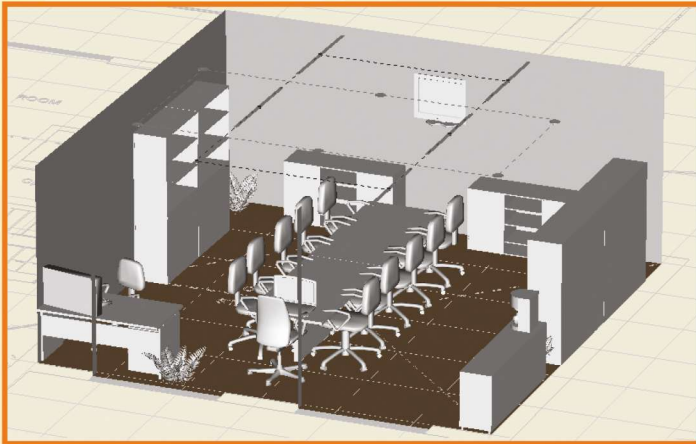


**Efficient, Human Centric Lighting
The complete solution**

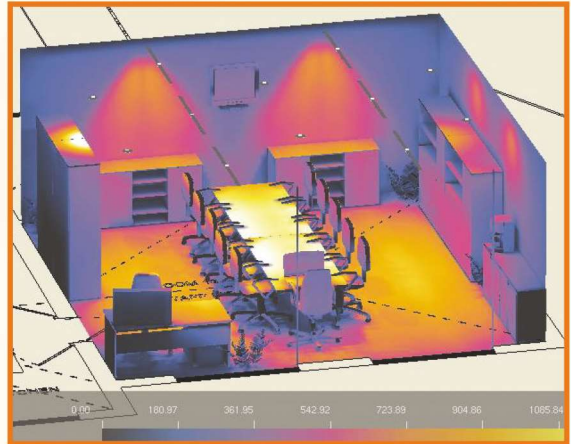


2. Lighting Scheme Design

- To design the optimum type, position and number of lights.
- Calculating and modelling the lux levels ensuring they meet approved standards.
- Including emergency lighting when required.



3D Solid Model



3D Solid Model with Flux in Pseudo Colours

Results Summary

Results Detail

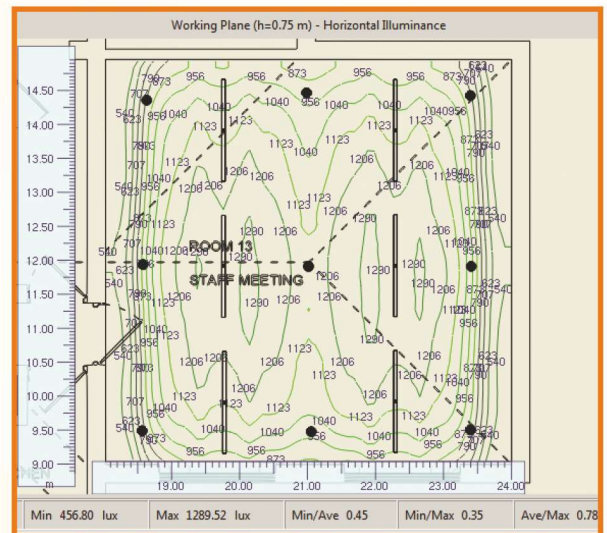
Horizontal II. Eh

Name	Avg.	Min	Max	Min/Ave	Min/Max	Ave/Max
Wall 1	157.75	5.13	335.61	0.03	0.02	0.47
Wall 2	253.07	35.93	498.39	0.14	0.07	0.51
Wall 3	413.62	35.28	743.25	0.09	0.05	0.56
Wall 4	325.98	131.17	517.78	0.40	0.25	0.63
Wall 5	359.14	278.77	490.98	0.78	0.57	0.73
Wall 6	321.88	113.16	495.57	0.35	0.23	0.65
Wall 7	458.27	201.39	724.53	0.44	0.28	0.63
Wall 8	311.80	129.97	464.66	0.42	0.28	0.67
Wall 9	234.92	1.12	444.16	0.00	0.00	0.53
Wall 10	199.77	0.00	625.22	0.00	0.00	0.32
Wall 11	289.74	0.00	729.54	0.00	0.00	0.40
Wall 12	229.15	0.00	757.29	0.00	0.00	0.30
Floor	484.90	0.00	991.91	0.00	0.00	0.49
Ceiling	317.44	124.57	514.95	0.39	0.24	0.62
Working Plane (h=0.75 m)	798.09	0.00	1266.81	0.00	0.00	0.63

Unit of measurement: lux

Pseudo colors Iso Curves Values

Illumination Levels



Illumination Map

3. Installation & After Sales Support

- Fully certified experienced electrical engineers.
- To Install and test the lighting.
- Provide after sales support.



Easy Install



Surface Mounted Installation



Suspended Install



Finished Installation

StarTek Products

1. StarTek Lights

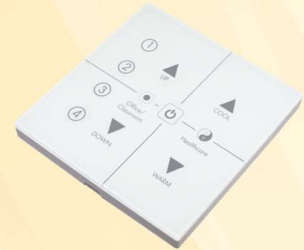
- Supplied to the correct CCT, CRI, beam angle, glare index and power with optional SunLike LEDs for closer to sunlight wavelength profile.
- Locally manufactured with reliable electronics rated to 50,000 hours and 5 year warranty.
- Surface or suspended mountings.



2. StarTek Control Systems

- Smart Phone.
- Sensor.
- Wall Panel.

Wall Panel



With the Bluetooth module built in, the touch panel can be grouped with the sensor

StarTek LED Light



StarBeam (StarTek's low-glare range) is a slim and rigid complete luminaire with a wide range of optics and installation options, designed for simplicity, flexibility and effectiveness.

High CRI >90
Ultra Low Glare UGR <16
High Lumen per Watt 150lm/W

Master Sensor



Day light Harvesting Sensor
Controls the light level according to the sunlight.

+

Proximity Sensor
Switches on the light after detecting movement within the pre-specified zone.

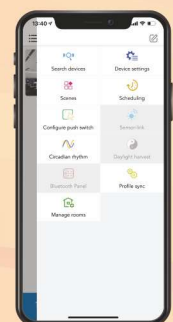
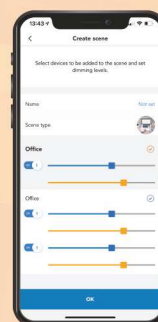


Free App

Communication between the sensor and wall panel is performed wirelessly. Commissioning and programming of the system via the App using Bluetooth enabled smart device using Android or iOS operating systems.

3. StarTek Sensor App

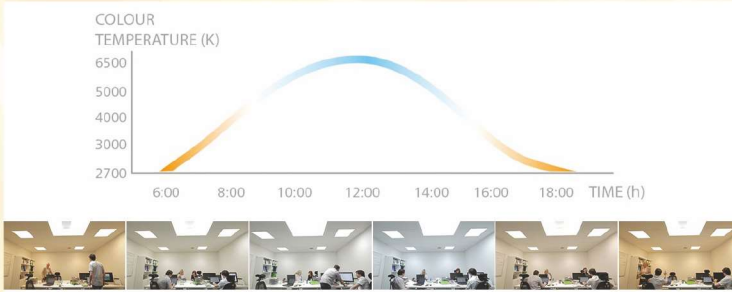
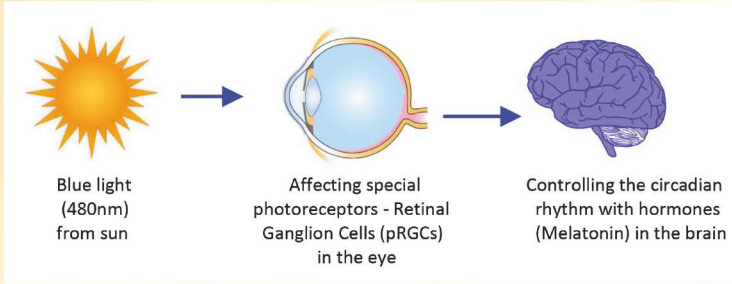
- Programme the sensor or lights.
- Manual or automated control.
- Create Human Centric Scenes.



Human Centric Lighting

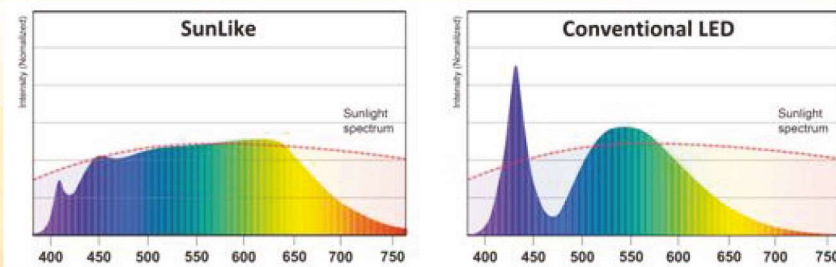
Human Centric Lighting

Human Centric Lighting (HCL) is a newly emerging field with its importance being studied and scientifically proving the biological effects of lighting on humans. All living beings have a biological clock, that synchronises them to the day and night cycle. This is called the Circadian Rhythm. There is different stimulus that effect and control this clock, in order to set it to the location on earth of the person.

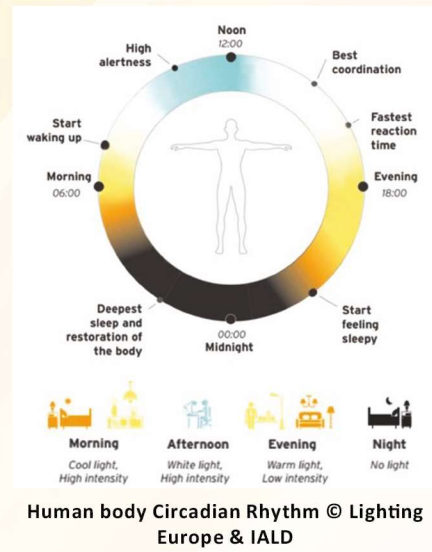


Varying colour temperature throughout working day

Our lights and control systems can accurately match these light levels (lux) and colour (Correlated Colour Temperature, CCT) and natural sunlight spectrum profile throughout the day, so as not to disrupt the natural cycle. If this cycle is disrupted, not only is the person's efficiency affected but it can also lead to discomfort and eventually health issues.



SunLike spectrum with lowered blue light peak to optimize for human centric lighting © Toshiba Materials Co., Ltd.



Human body Circadian Rhythm © Lighting Europe & IALD

One of the main mechanisms in the human body for setting this clock is the eye, which is tuned to the colour variation of the sun's colour and intensity, at various times of the day. The colour changes during the day due to the refraction of different wavelengths of the sun's light as it passes at different angles through the atmosphere. This light then passes into the eye, through the ophthalmic nerve and into the brain where glands trigger hormones to either make the person more alert or induce tiredness to aid sleep, depending on the time of day.



The colour and intensity of our lights can be tuned to natural sunlight throughout the day

StarTek Lighting (UK) Ltd
29 Montefiore Road, Hove,
East Sussex, BN3 1RD
United Kingdom

T: +44(0) 1273 245271
E: led@led-lighting.lighting
www.led-lighting.lighting

www.led-lighting.lighting

www.facebook.com/StarTek.LED.Lighting/



StarTek Lighting (UK) Limited
Company Reg no. 11862348