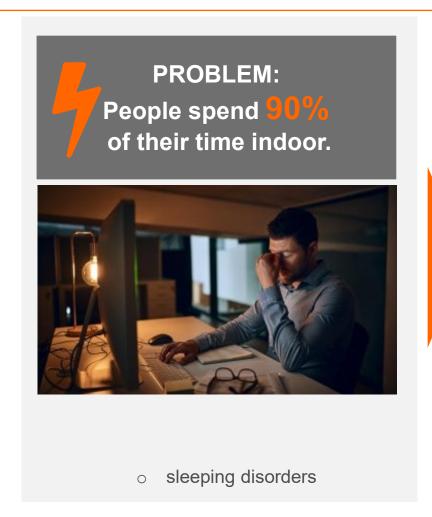


# THE ADDED VALUE OF HUMAN CENTRIC LIGHTING (HCL)



# Modern living conditions: Insufficient lighting can compromise human health and well being





- Decoupling from daynight-rhythm
- Inappropriate light reception

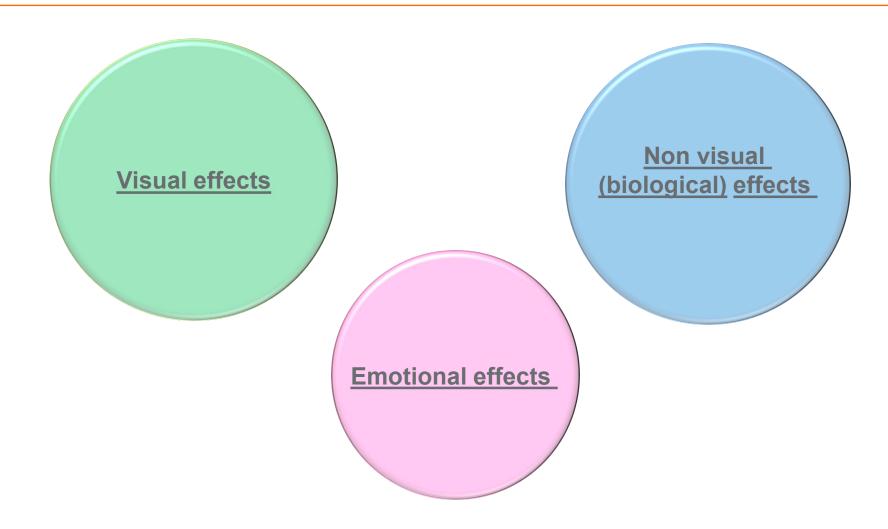
#### **LEADS TO**



- low attention
- o fatigue
- o depression
- sleeping disorders

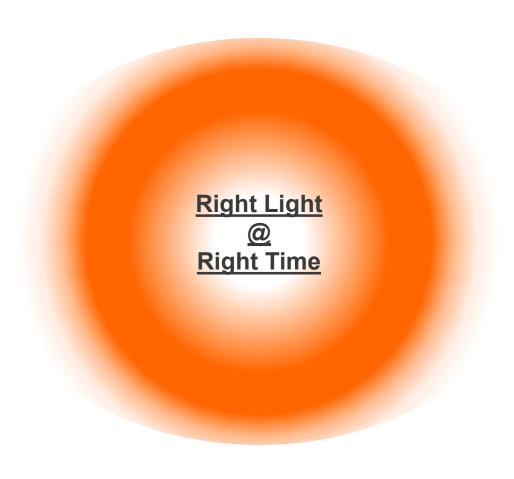


#### **Human Centric Lighting**

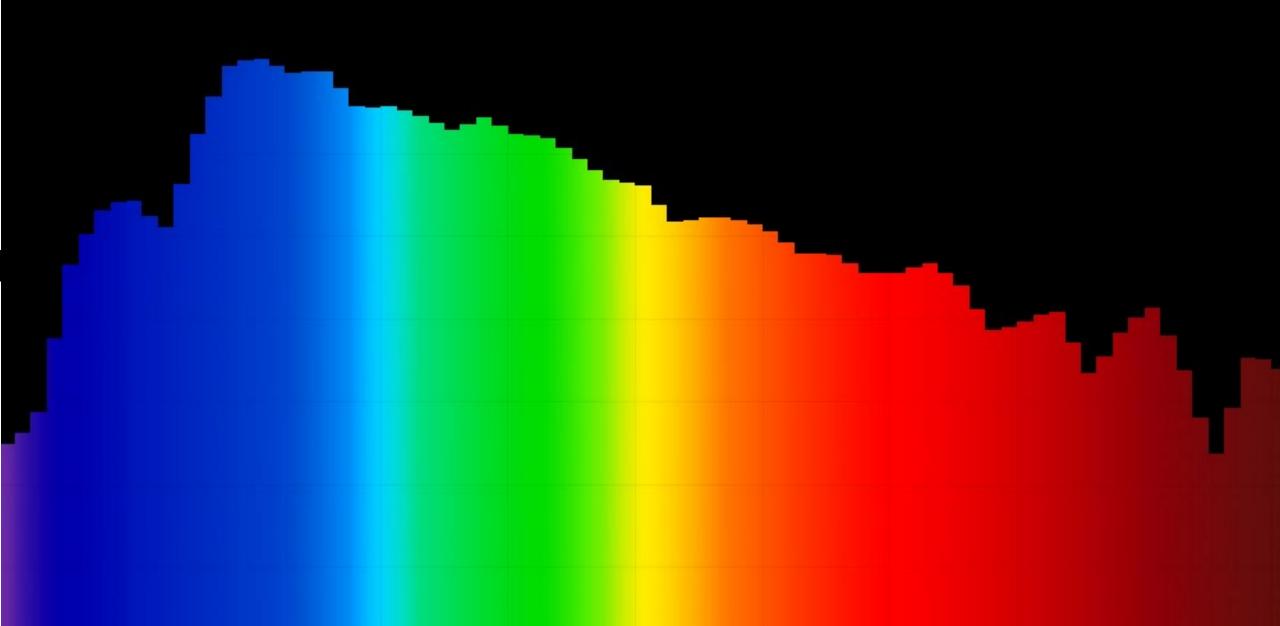




## **Human Centric Lighting**

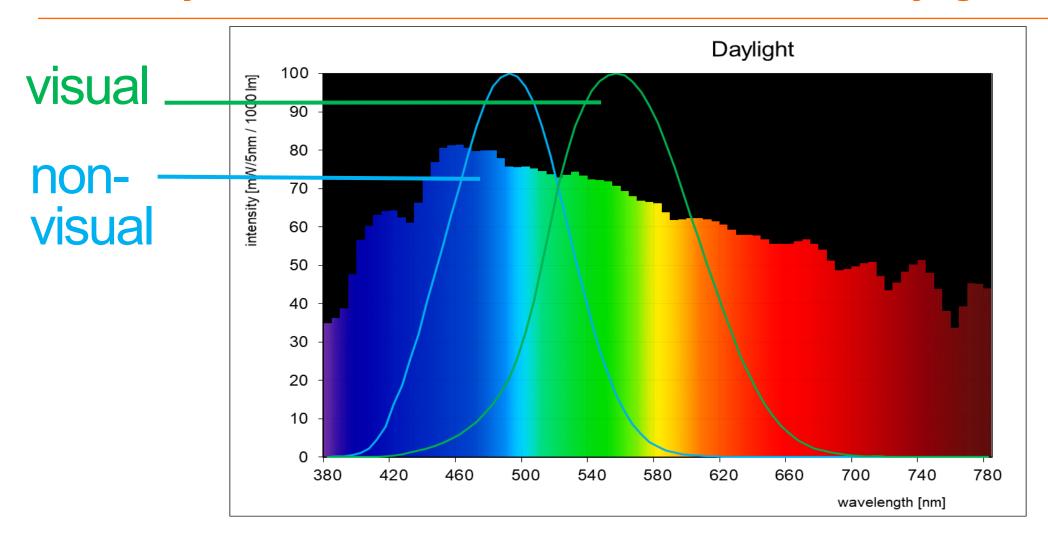


# NATURAL DAYLIGHT



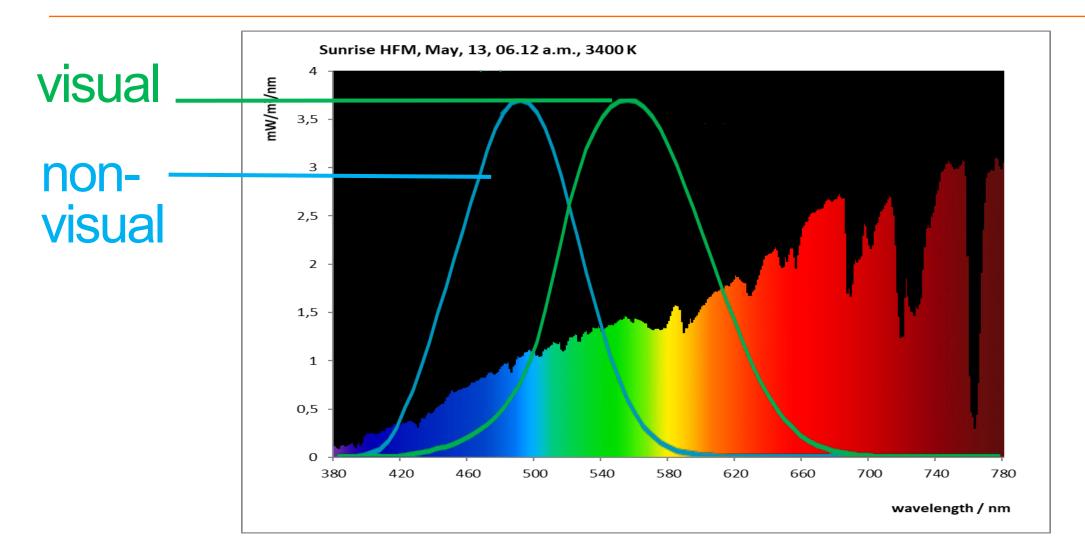


### HCL-Systems need to be oriented on natural daylight



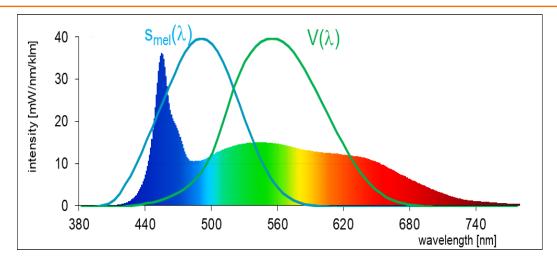


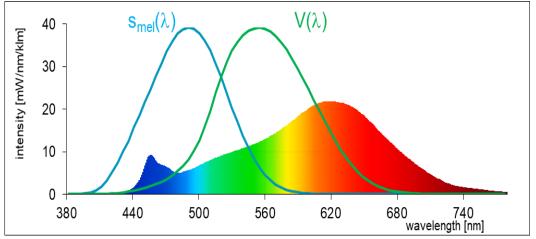
### HCL-Systems need to be oriented on natural daylight





#### What is Needed for HCL?



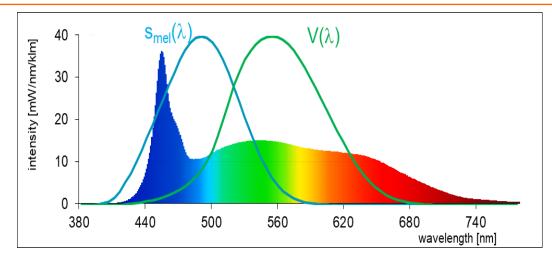


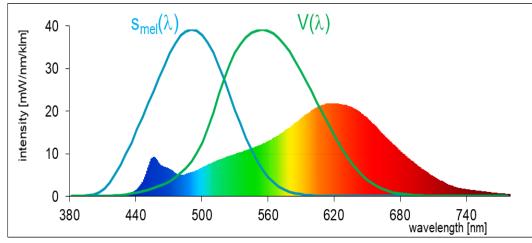
### Daylight white LED

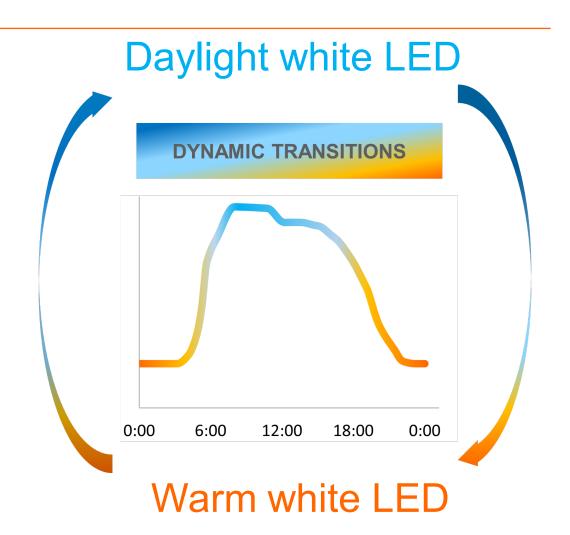
Warm white LED



#### What is Needed for HCL?









### **HCL BIOLUX System Overview**



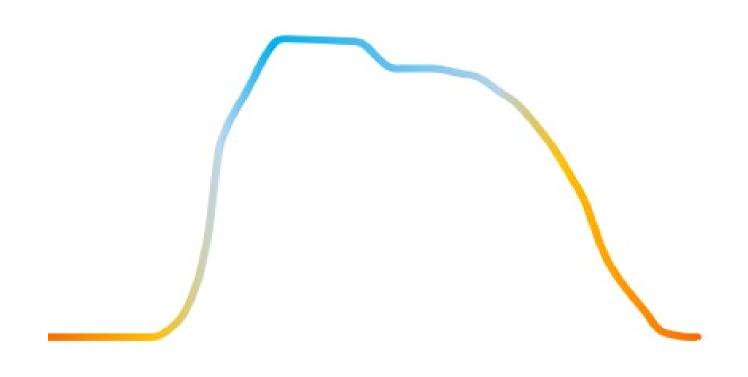
**Commissioning** 

**Operation** 



#### **BIOLUX – Five Main Operation Modes for User Comfort and Safety**

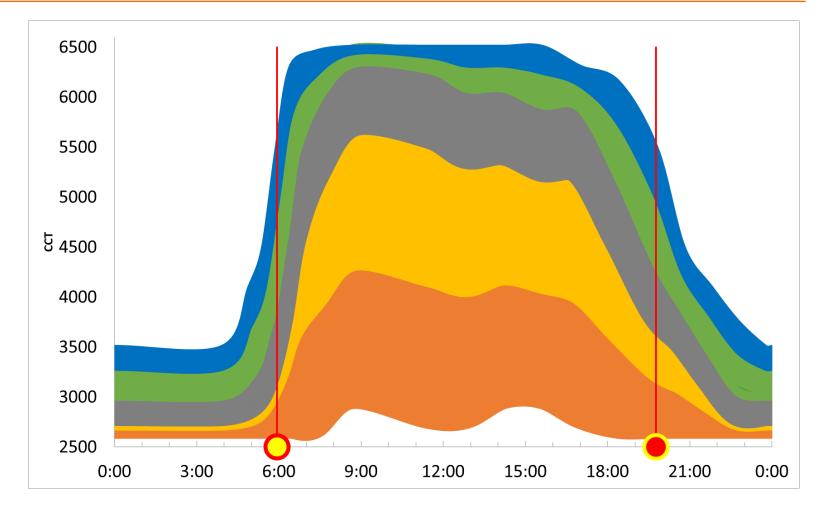






#### **BIOLUX – Five Main Operation Modes for User Comfort and Safety**







# **BIOLUX HCL Control Unit**



#### **Product Overview**

Product Name	EAN
BIOLUX HCL CONTROL UNIT	4058075308657



#### **Product Features:**

- Installation in standard wall mounted switch-boxes
- Automated commissioning and set up
- No programming required
- Intuitive control just by rotation for easy selection of the right light



### **BIOLUX HCL**



#### What do we need?

#### LED:

• High Quality LED with "full spectrum", High CRI, high efficacy

#### **CONTROLS:**

- More intelligence, less programming
- Integrated components for dynamic daylight
- Better functions for dynamic transitions in standardised control protocols like DALI or ZIGBEE

#### **LIVING HCL:**

Not only talking, but living HCL

# THANK YOU

