

# HUMAN CENTRIC LIGHTING



... to boost circadian rhythms.

## INTRODUCING HUMAN CENTRIC LIGHTING

Ours is an era when people spend a big part of their day indoors in artificial light. Human centric lighting (HCL) is designed to mimic natural daylight as closely as possible to match the ideal circadian rhythms and thereby improve motivation and productivity, enhance concentration and promote well-being at workplace.

Adjustability of correlated colour temperature (CCT) to suit different tasks and times of day is a major benefit of HCL. While low CCT (warm) light helps users to calm down such as when facing high stress, cooler white light (high CCT) energizes and boosts productivity and creativity.

Here is how HCL works. Imagine you and your children are waking up on a Monday morning. Warm, lower intensity light at sunrise will give your family a soft start to the day while cooler light will help you concentrate at the important meeting later on. Switching back to warm light later in the afternoon is what people normally do because it promotes relaxation. However,

if you have to work late today to meet a rapidly approaching deadline, sticking to cooler light longer will help you stay alert and creative. In contrast, a few hours later, with the children in bed and a productive day behind you, it is finally time to enjoy a bit of a me time, perhaps with a book in your lap. Whatever the way you choose to wind down before going to sleep, warm light will help you do just that. And it will take some of the strain off your eyes too.

HCL is commonly used in offices, hospitals, schools, libraries and care homes but is recently also gaining popularity in residential spaces as well as in industrial and agricultural facilities.

## SPECIFICATIONS

- Lifetime: 50,000 hours (L80B10)
- Constant light output (CLO) for the duration of the product's lifetime (if fitted with a DALI)
- Emergency version available
- Controlled through a mobile app installed on your smartphone or tablet
- Adjustable correlated colour temperature (CCT)
- Dimming
- Lighting planning with time programmes
- Creation of separately controlled groups and scenes possible
- Simple system adjustment and extension



# NANOTTICA

Type	Max. ambient temperature [°C]	Luminous flux of LED modules [lm]	Luminous flux of light fitting [lm]	Power consumption [W]	System efficacy [lm/W]	Net weight [kg]	A [mm]	D [mm]
<b>EXAMPLE</b>								
NANOTTICA 1.5ft ABS 5500/827-865 TW	45	5500	4670	39	126	2,0	1455	970 - 1230

# LINEA

Type	Max. ambient temperature [°C]	Luminous flux of LED modules [lm]	Luminous flux of light fitting [lm]	Power consumption [W]	System efficacy [lm/W]	Net weight [kg]	A [mm]	D [mm]
<b>EXAMPLE</b>								
LINEA 1.4ft 4400/827-865 TW	35	4400	3720	30	124	1,9	1160	650

# NAOS

Type	Max. ambient temperature [°C]	Luminous flux of LED modules [lm]	Luminous flux of light fitting [lm]	Power consumption [W]	System efficacy [lm/W]	Net weight [kg]	A [mm]	D [mm]
<b>EXAMPLE</b>								
NAOS 1.5ft 5500/827-865 TW	35	5500	4500	39	115	4,4	1460	1310

## CRI &gt; 80

Type	Luminous flux of LED modules [lm]	Power consumption [W]
CRI > 80		
Luminaire 1.2ft TW xx 2200/827-865	2200	16
Luminaire 1.4ft TW xx 4400/827-865	4400	31
Luminaire 1.5ft TW xx 5500/827-865	5500	39
Luminaire 2.2ft TW xx 4400/827-865	4400	31
Luminaire 2.4ft TW xx 8800/827-865	8800	62
Luminaire 2.5ft TW xx 11000/827-865	11000	78

Example: PRIMA LED 1.5ft TW PC 5500/827-865

## CRI &gt; 90

Type	Luminous flux of LED modules [lm]	Power consumption [W]
CRI > 90		
Luminaire 1.2ft TW xx 3200/927-965	3200	29
Luminaire 1.4ft TW xx 6400/927-965	6400	49
Luminaire 1.5ft TW xx 8000/927-965	8000	60

Example: NAOS 1.2ft TW 3200/927-965

## LEGEND

**xx** – materials (PC, ABS, applicable for the luminaires INNOVA, FUTURA and PRIMA LED)  
**TW** – HUMAN CENTRIC LIGHTING

A TW module is available for most of our luminaires:

## Industrial fittings:

NANOTTICA  
 INNOVA  
 FUTURA  
 PRIMA LED  
 PERUN SLIM  
 ALUMAX LED

## Indoor fittings:

LINEA and LINEA SQUARE  
 BELTR LED  
 NAOS  
 LUXOR LED

LUMINAIRES FITTED WITH A TUNABLE WHITE LIGHT MODULE – DEMO



