

CONCEPT HCL



... 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.

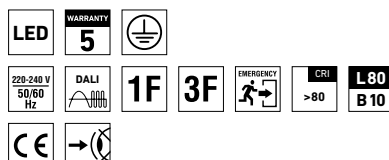
Here is how HCL works. Imagine you and your children are waking up on a Monday morning. Warm, lower intensity light at sunrise will give your family a soft start to the day while cooler light will help you concentrate at the important meeting later on. Switching back to warm light later in the afternoon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

Code	Type	Max. ambient temperature [°C]	Luminous flux of light fitting [lm]	Power consumption [W]	System efficacy [lm/W]	Net weight [kg]	A [mm]	D [mm]
EXAMPLE								
107072	NANOTTICA 1.4ft PC 4400/827-865 TW	45	4040	26,0	155	1,9	1170	700 - 960
107073	NANOTTICA 1.5ft PC 5500/827-865 TW	45	5020	31,9	157	2,2	1450	970 - 1230

PRIMA PC TW

Code	Type	Max. ambient temperature [°C]	Luminous flux of light fitting [lm]	Power consumption [W]	System efficacy [lm/W]	Net weight [kg]	A [mm]	D [mm]
EXAMPLE								
107000	PRIMA 1.4ft PC 4400/827-865 TW	45	4000	26,0	154	1,9	1170	700 - 960
107001	PRIMA 1.5ft PC 5500/827-865 TW	45	4970	31,9	156	2,2	1450	970 - 1230

INNOVA PC TW

Code	Type	Max. ambient temperature [°C]	Luminous flux of light fitting [lm]	Power consumption [W]	System efficacy [lm/W]	Net weight [kg]	A [mm]	D [mm]
EXAMPLE								
107006	INNOVA 1.4ft PC 4400/827-865 TW	45	4040	26,0	155	1,8	1170	420 - 700
107007	INNOVA 1.5ft PC 5500/827-865 TW	45	5020	31,9	157	2,0	1450	700 - 980

FUTURA PC TW

Code	Type	Max. ambient temperature [°C]	Luminous flux of light fitting [lm]	Power consumption [W]	System efficacy [lm/W]	Net weight [kg]	A [mm]	D [mm]
EXAMPLE								
107012	FUTURA 2.4ft PC Al 8800/827-865 TW	45	8170	49,7	164	2,7	1172	700
107013	FUTURA 2.5ft PC Al 11000/827-865 TW	45	11570	71,1	163	3,2	1452	940

LINEA PC TW

Code	Type	Max. ambient temperature [°C]	Luminous flux of light fitting [lm]	Power consumption [W]	System efficacy [lm/W]	Net weight [kg]	A [mm]	D [mm]
EXAMPLE								
107076	LINEA 1.4ft 4400/827-865 TW	35	3610	26,0	139	2,1	1160	650
107077	LINEA 2.4ft 8800/827-865 TW	35	7130	49,7	143	2,1	1160	650

NAOS PC TW

Code	Type	Max. ambient temperature [°C]	Luminous flux of light fitting [lm]	Power consumption [W]	System efficacy [lm/W]	Net weight [kg]	A [mm]	D [mm]
EXAMPLE								
107078	NAOS 1.4ft 4400/827-865 TW	35	3310	26,0	127	3,9	1180	1030
107079	NAOS 1.5ft 5500/827-865 TW	35	4110	31,9	129	4,6	1460	1310

NAON PC TW

Code	Type	Max. ambient temperature [°C]	Luminous flux of light fitting [lm]	Power consumption [W]	System efficacy [lm/W]	Net weight [kg]	A [mm]	D [mm]
EXAMPLE								
107074	NAON 1.4ft 4400/827-865 TW	35	3310	26,0	127	3,6	1200	1130
107075	NAON 1.5ft 5500/827-865 TW	35	4110	31,9	129	4,2	1480	1410

CONCEPT HCL



CRI > 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

CRI > 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

LEGEND

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

A TW module is available for most of our luminaires:

Industrial fittings:

NANOTTICA
 PRIMA
 INNOVA
 FUTURA
 PERUN SLIM
 ALUMAX LED

Indoor fittings:

LINEA
 BELTR LED
 NAOS
 NAON

LUMINAIRES FITTED WITH A TUNABLE WHITE LIGHT MODULE – DEMO

