LUMITECH
YOUR LIGHTING SOLUTION

PI-LED® SOVT CAMPUS

Human Centric Lighting
makes the day light.

Tunable white
1,800K - 16,000K

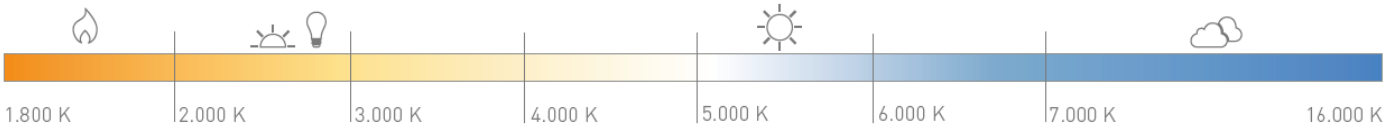
Brightness dimmable
CCT/CIE-xy 5-100%

RGB/CIE-xy adjustable
Colour points and sequences

Biorhythmic lighting
Vitalisation and recreation

Control mode
NeoLink/ZigBee

Excellent CRI
CRI>90



Letzte Änderung: 16.10.2020 SOVT CAMPUS

LUMITECH
YOUR LIGHTING SOLUTION

PI-LED® SOVT CAMPUS

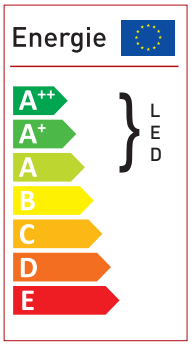
HIGHLIGHTS

- Elegant design housing with integrated surface emitting optics
- Ideal for lighting large interior areas
- High colour rendition CRI >90
- Low tolerance for colour temperature MacAdam 1 (typisch / initial)
- Control mode: NeoLink/ZigBee (DALI DT8 on request)
- Integrated overtemperature protection
- Adjustable colour temperature 1.800K - 16.000K*
- Adjustable CIE-xy colour points and RGB colours
- Dimming: CCT/CIE-xy 5-100% | RGB 0-100%

*CCT values outside the range 2.500-7.000K can be set in the CIE-xy mode

TECHNICAL DATA

Luminous source	SMD PI-LED Module
Supply voltage	230VAC
Power	35W
LED luminous flux	1960lm
Control modes	NeoLink/ZigBee
Dimmable	RGB: 0% - 100% CCT/CIE-xy: 5% - 100%
Protection rating	IP20
Protection class	II
Mounting	2.1 kg
Weight	Surface mounted



ORDERING DATA AND TECHNICAL DATA - SOVT CAMPUS

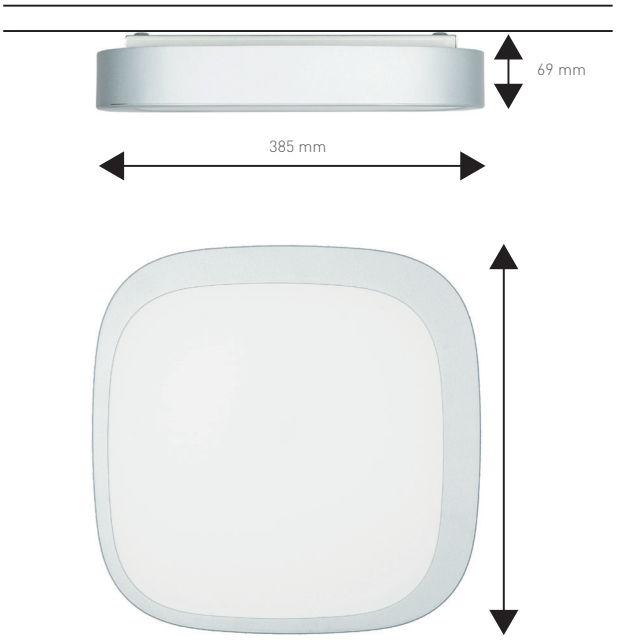
Type	Surface mounted luminaire
tbd	Sovt Campus Surface mounted luminaire / PI-LED / NeoLink / White (RAL 9003)
tbd	Sovt Campus Surface mounted luminaire / PI-LED / NeoLink / Silver (RAL 9006)

Notes:
- All values apply at ta=25°C, tc=40°C and 3000K in steady state
- Tolerance ranges: illumination data +/-10% | electrical data +/-15% | supply voltage 48V DC +/- 5%
- Illumination specifications in accordance with CIE1931
- According to colour temperature and temperature of the PI-LED system, the Mac Adam tolerance takes on values < 4

PI-LED® SOVT CAMPUS

TECHNICAL DRAWINGS AND DATA

SOVT CAMPUS



MELANOPIC EFFECT FACTOR

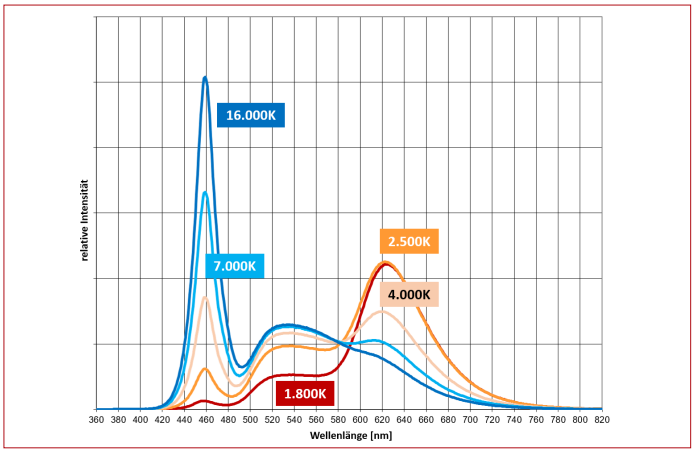
CCT [K]	VISUELL	BIOLOGISCH
	Lichtstrom [lm]	alpha (smel)
1.800	1225	0,237
2.000	1400	0,274
2.500	1900	0,360
2.700	2050	0,392
3.000	1960	0,438
3.500	1865	0,509
4.000	1800	0,573
4.500	1750	0,630
5.000	1720	0,681
5.500	1695	0,726
6.000	1675	0,767
6.500	1670	0,804
7.000	1645	0,836
8.000	1630	0,890
9.000	1615	0,934
10.000	1605	0,970
12.000	1580	1,024
14.000	1560	1,063
16.000	1555	1,091

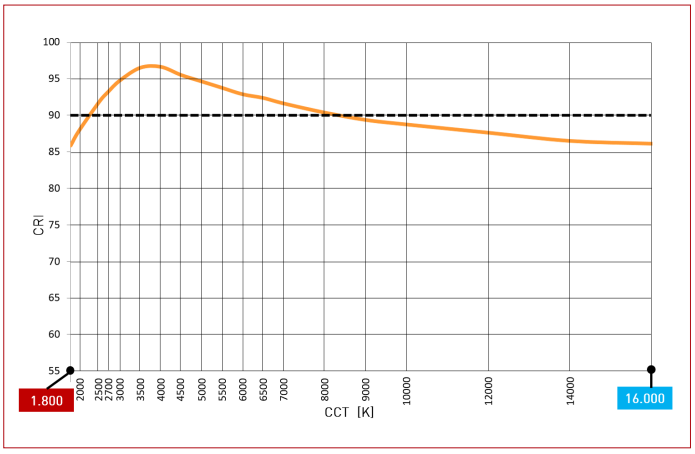
Besides the visual and emotional characteristics of PI-LED HCL lighting, it is above all its biological effect which - following the example of natural daylight - creates healthy light.

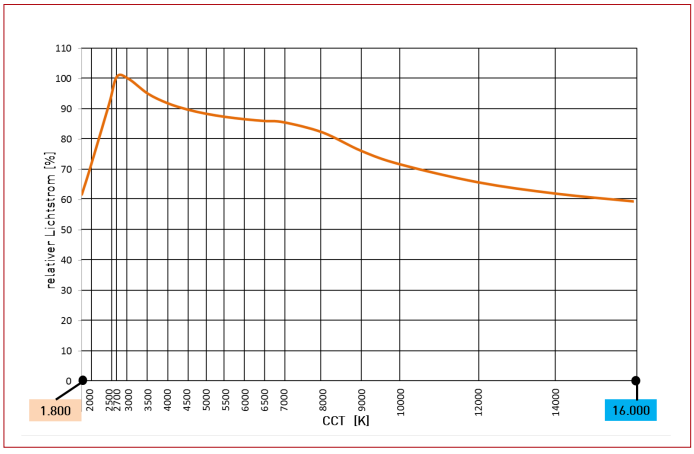
The factor alpha(smel) describes the melanopic effectiveness of the light source on humans and their circadian rhythms. In order to support natural human biorhythms in the best possible way, higher alpha(smel) values can minimise melatonin release during the day, while lower values can promote it in the evening. Lighting that is not only visually but also melanopically effective is made possible by PI-LED. LUMITECH recommends following DIN SPEC 5031-100 as a basis for standardised lighting design.

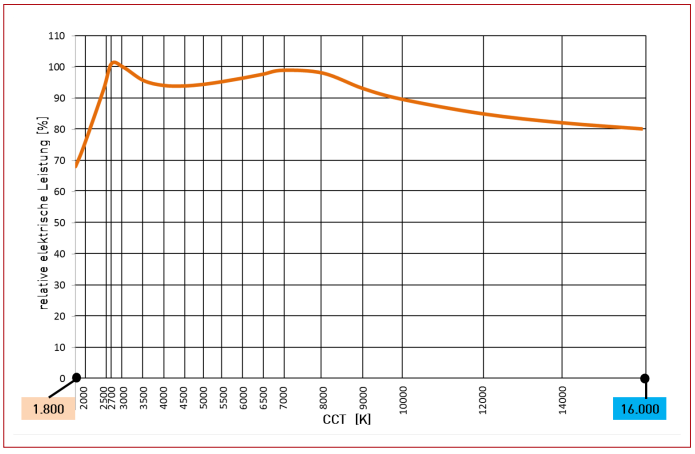
Further information and numeric examples can be found in the **guide for melanopic lighting design and more**.

TYPICAL GENERAL OPTICAL PROPERTIES OF PI-LED





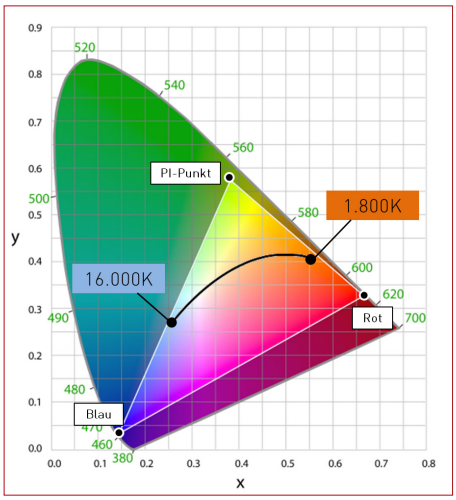




Notes:
- The actual drop in the luminous flux can vary across the delivered LED modules.
- The diagrams show typical curves and not the exact behaviour of the LED module or the PI-LED system.

PI-LED® SOVT CAMPUS

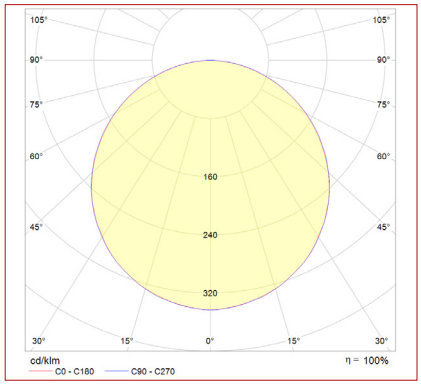
COORDINATES AND TOLERANCES ACCORDING TO CIE 1931



Representable PI-LED colour space in the CIE 1931 system

If a colour point outside of the triangle (PI-LED colour space) is set, the closest colour point within the triangle is referenced.

LIGHT DISTRIBUTION



LIFETIME

L80B10 [h]
50.000

Notes:
• Value L is a statistical value, the actual drop in the luminous flux can vary across the delivered LED modules.

PI-LED® SOVT CAMPUS

REFERENCES