LUMITECH
YOUR LIGHTING SOLUTION

PI-LED® SOLIS

Human Centric Lighting
makes the day light.

Tunable white
1,800K - 16,000K

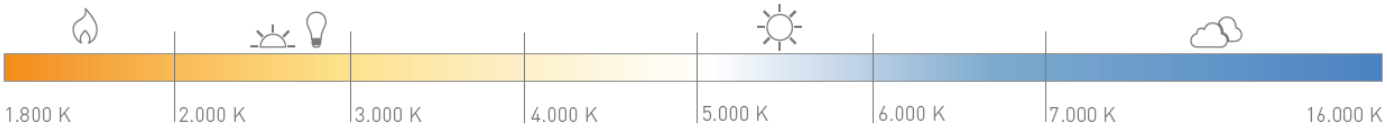
Brightness dimmable
CCT/CIE-xy 5-100%

RGB/CIE-xy adjustable
Colour points and sequences

Biorhythmic lighting
Vitalisation and recreation

2 Control modes
DALI DT8,
NeoLink/ZigBee

Excellent CRI
CRI>90



Letzte Änderung: 16.10.2020 SOLIS

PI-LED® SOLIS

HIGHLIGHTS

- High-quality pendant luminaire for accent lighting and general illumination in a unique design
- High colour rendition CRI >90
- Low tolerance for colour temperature
- 2 control modes: DALI DT8, NeoLink/ZigBee
- Integrated overtemperature protection
- Adjustable colour temperature 1.800K - 16.000K*
- Adjustable CIE-xy colour points and RGB colours
- Dimming: CCT/CIE-xy 5-100%

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

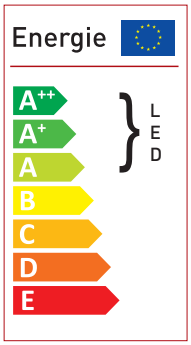
GERMAN DESIGN AWARD WINNER 2020

GERMAN INNOVATION AWARD '20 WINNER

INNOVATIVE INTERIOR winner

TECHNICAL DATA

Luminous source	PI-LED Downlight Modul
Supply voltage	230VAC
Power	37W
LED luminous flux	2000lm
Control modes	DALI DT8, NeoLink/ZigBee
Dimmable	RGB: 0% - 100% CCT/CIE-xy: 5% - 100%
Protection rating	IP20
Protection class	I
Weight	2.3kg



IP20 RoHS

ORDERING DATA AND TECHNICAL DATA - SOLIS

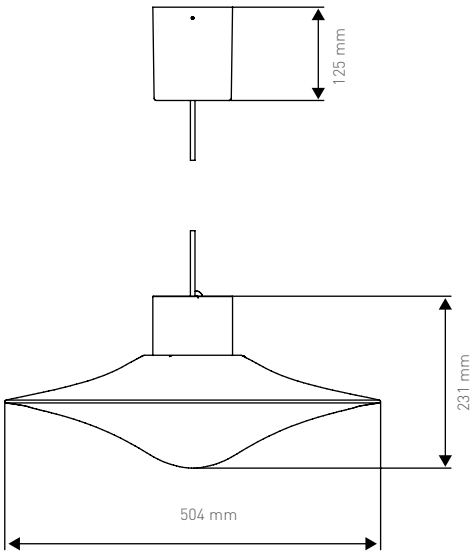
Type	Pendant luminaire
tbd	Solis Pendant luminaire / PI-LED / NeoLink / White (RAL 9003)
tbd	Solis Pendant luminaire / PI-LED / DALI DT8 / White (RAL 9003)

Notes:
- All values apply at ta=25°C, tc=40°C at 3000K in the 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

TECHNICAL DRAWINGS AND DATA

SOLIS PENDANT LUMINAIRE

Max. Suspended length: 1.5 m



MELANOPIC EFFECT FACTOR

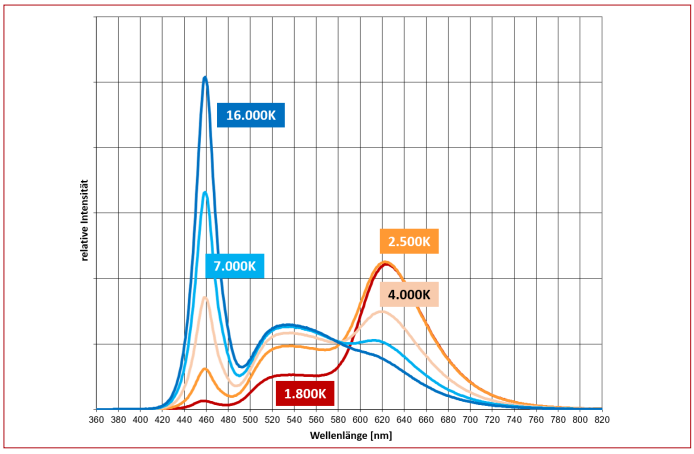
CCT [K]	VISUELL	BIOLOGISCH
	Lichtstrom [lm]	alpha (smel)
	SOLIS	
1.800	1480	0,226
2.000	1745	0,252
2.500	2170	0,324
2.700	2090	0,357
3.000	2000	0,407
3.500	1910	0,484
4.000	1850	0,554
4.500	1815	0,618
5.000	1790	0,676
5.500	1775	0,728
6.000	1765	0,774
6.500	1755	0,816
7.000	1750	0,852
8.000	1745	0,915
9.000	1740	0,965
10.000	1735	1,033
12.000	1730	1,168
14.000	1720	1,304
16.000	1710	1,439

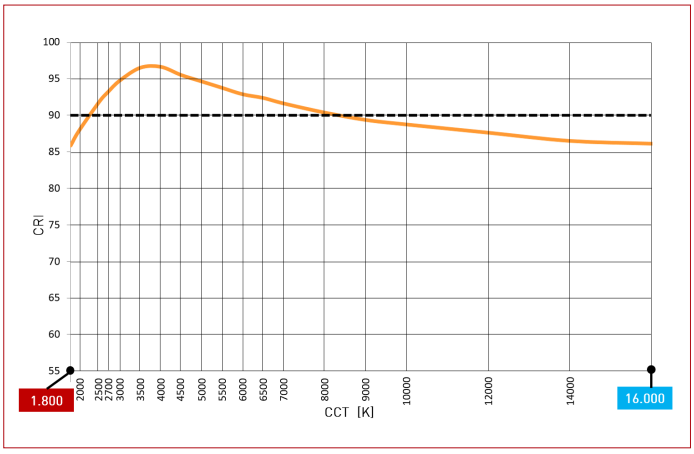
Besides the visual and emotional characteristics of PI-LED HCL lighting, it is above all its biological effect which - following the example of natural daylight - creates healthy light.

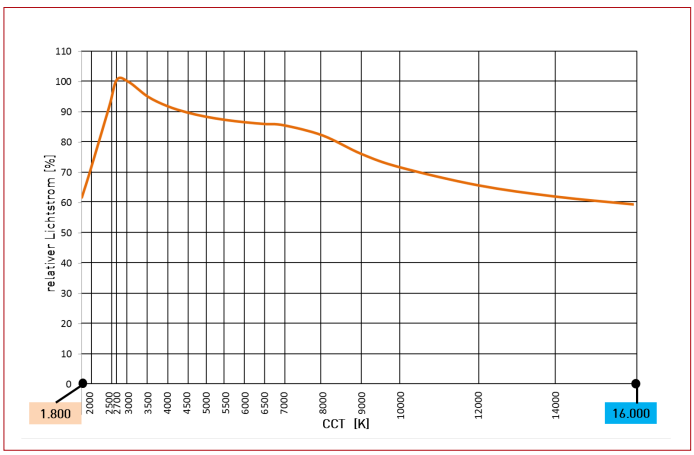
The factor alpha(smel) describes the melanopic effectiveness of the light source on humans and their circadian rhythms. In order to support natural human biorhythms in the best possible way, higher alpha(smel) values can minimise melatonin release during the day, while lower values can promote it in 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.

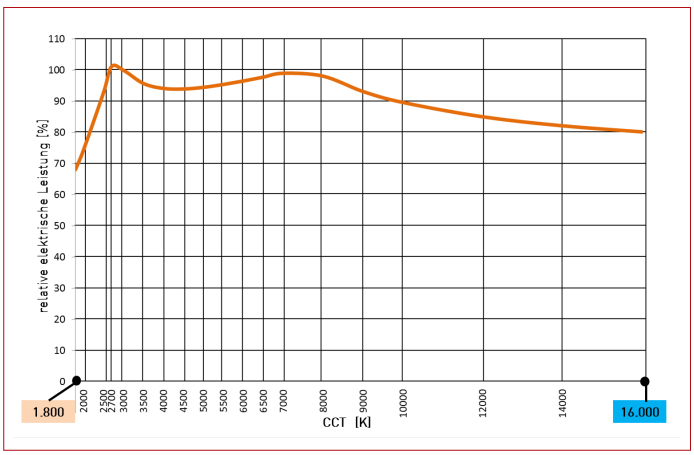
Further information and numeric examples can be found in the **guide for melanopic lighting design and more**.

TYPICAL GENERAL OPTICAL PROPERTIES OF PI-LED



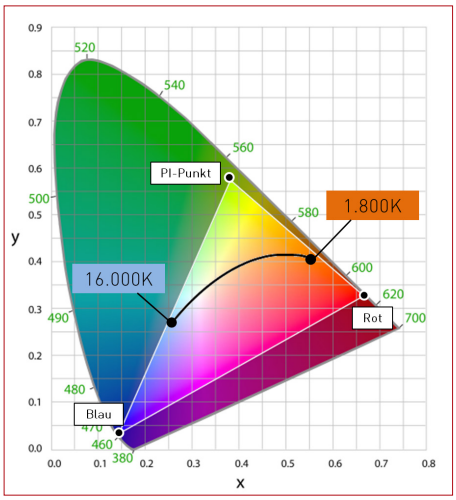






Notes:
- The actual drop in the luminous flux can vary across the delivered LED modules.
- The diagrams show typical curves and not the exact behaviour of the LED module or the PI-LED system.

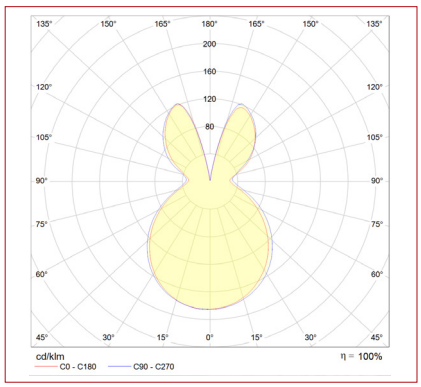
COORDINATES AND TOLERANCES ACCORDING TO CIE 1931



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.

REFERENCES