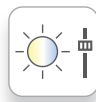




PI-LED® PI-LED LAMP



Tunable white
1,800K - 16,000K



Brightness dimmable
CCT/CIE-xy 5-100%



RGB/CIE-xy adjustable
Colour points and
sequences



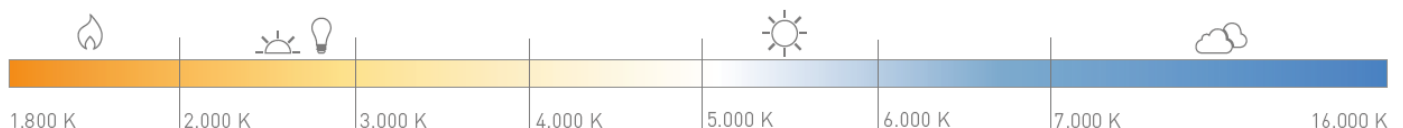
Biorhythmic lighting
Vitalisation and recreation



2 Control modes
DALI DT8,
NeoLink/ZigBee



Excellent CRI
CRI>90



PI-LED® PI-LED LAMP



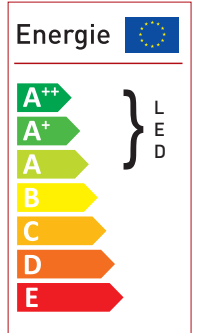
HIGHLIGHTS

- 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

TECHNICAL DATA

Luminous source	PI-LED Downlight Module
Supply voltage	230VAC
Power	37W
LED luminous flux	2300lm
Control modes	DALI DT8, NeoLink/ZigBee
Dimmable	RGB: 0% - 100% CCT/CIE-xy: 5% - 100%
Protection rating	IP20
Protection class	I
Weight	2kg



ORDERING DATA AND TECHNICAL DATA - PI-LED LAMP

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

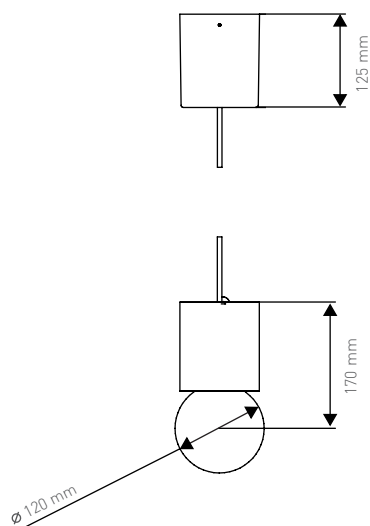
Notes:

- All values apply at $t_a=25^\circ\text{C}$, $t_c=40^\circ\text{C}$ 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

III TECHNICAL DRAWINGS AND DATA

PI-LED LAMP PENDANT LUMINAIRE

Max. Suspended length: 1.5 m



MELANOPIC EFFECT FACTOR

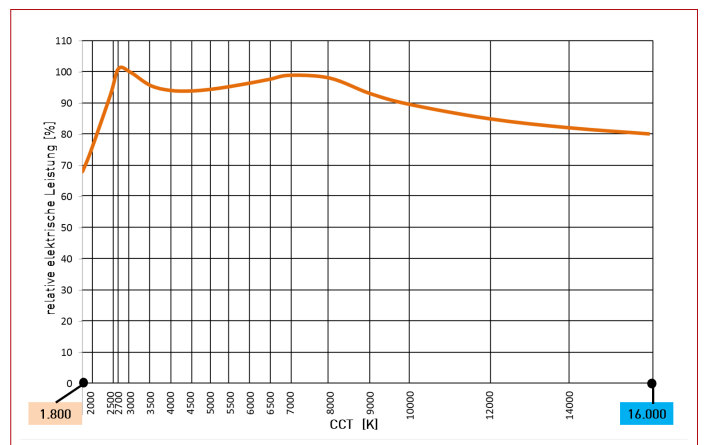
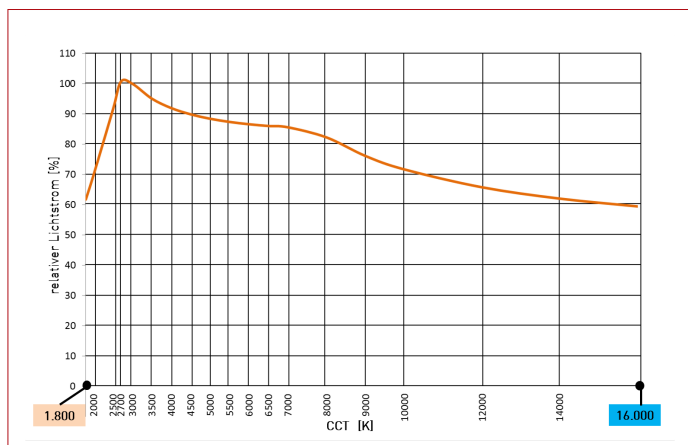
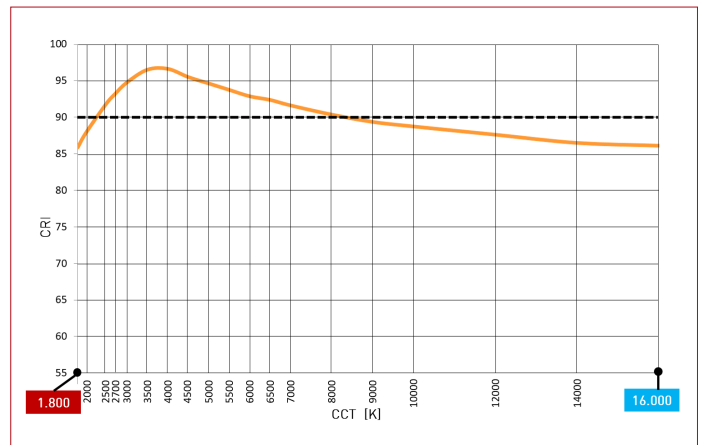
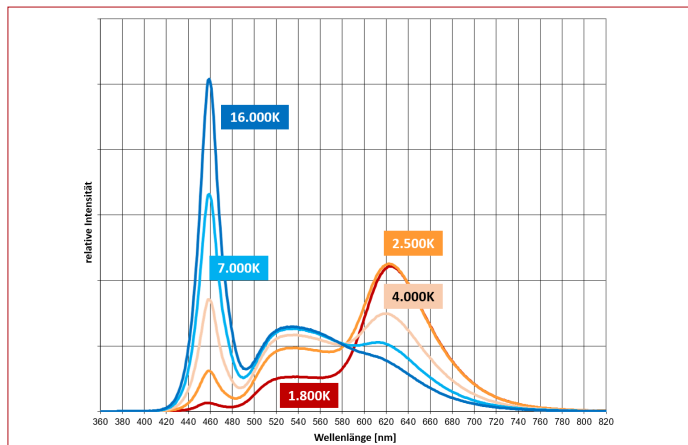
CCT [K]	VISUELL	BIOLOGISCH
	Lichtstrom (lm) PI-LED LAMP	alpha (smel)
1.800	1650	0,226
2.000	1945	0,252
2.500	2495	0,324
2.700	2400	0,357
3.000	2300	0,407
3.500	2195	0,484
4.000	2130	0,554
4.500	2085	0,618
5.000	2055	0,676
5.500	2040	0,728
6.000	2025	0,774
6.500	2015	0,816
7.000	2010	0,852
8.000	2000	0,915
9.000	1995	0,965
10.000	1990	1,033
12.000	1970	1,168
14.000	1950	1,304
16.000	1935	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

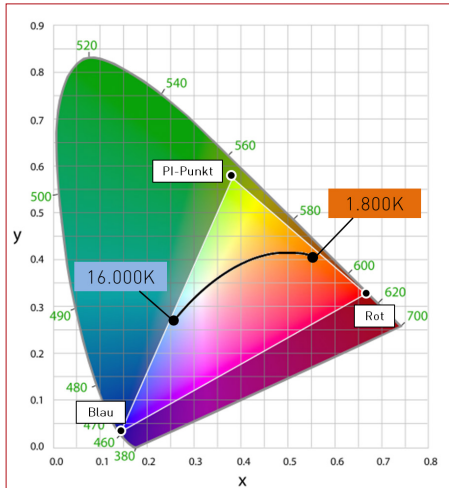


Notes:

- 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.

PI-LED® PI-LED LAMP

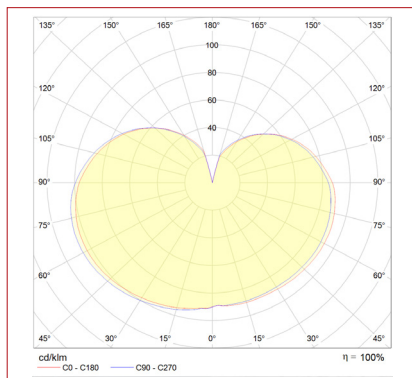
III COORDINATES AND TOLERANCES ACCORDING TO CIE 1931



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.

III LIGHT DISTRIBUTION



III 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® PI-LED LAMP

REFERENCES

