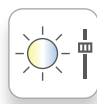




## PI-LED® VIBE



**Tunable white**  
1,800K - 16,000K



**Brightness dimmable**  
CCT/CIE-xy 5-100%



**RGB/CIE-xy adjustable**  
Colour points and  
sequences



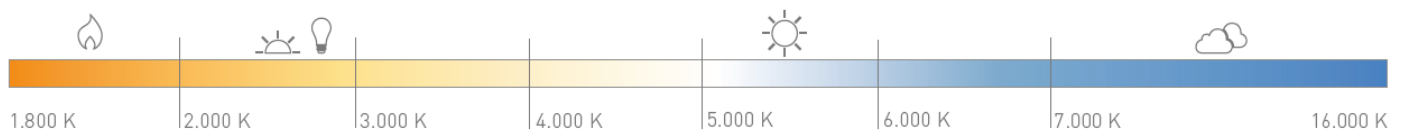
**Biorhythmic lighting**  
Vitalisation and recreation



**2 Control modes**  
DALI DT8,  
NeoLink/ZigBee



**Excellent CRI**  
CRI>90





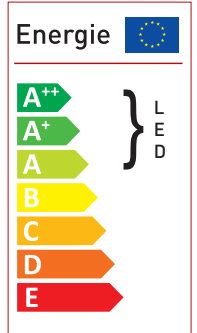
### HIGHLIGHTS

- Einzigartiges Design wird mit hochwertigen Materialien vereint
- High colour rendition CRI >90
- Low tolerance for colour temperature
- 2 control modes: DALI DT8, NeoLink
- 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	PI-LED Downlight Module
Supply voltage	230VAC
Power	72W
LED luminous flux	3800lm
Control modes	DALI DT8   NeoLink/ZigBee
Dimmable	RGB: 0% - 100% CCT/CIE-xy: 5% - 100%
Protection rating	IP20
Protection class	I
Mounting	7.0 kg
Weight	Pendant luminaire



### ORDERING DATA AND TECHNICAL DATA - VIBE

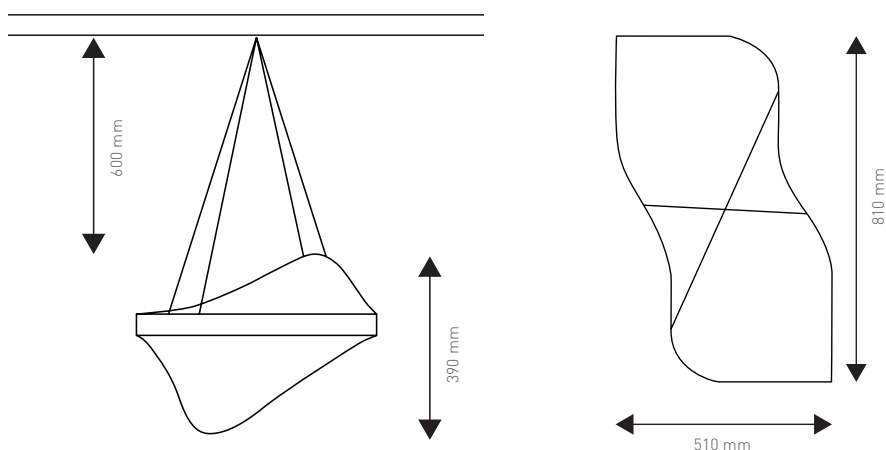
Type	Pendant luminaire
tbd	Vibe Pendant luminaire / PI-LED / NeoLink / White (RAL 9003)
tbd	Vibe Pendant luminaire / PI-LED / DALI DT8 / White (RAL 9003)

#### 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

## III TECHNICAL DRAWINGS AND DATA

### VIBE



Max. suspended length: 1.5 m (with 0.9 m single cable).  
Alternative suspended lengths available on request.

### MELANOPIC EFFECT FACTOR

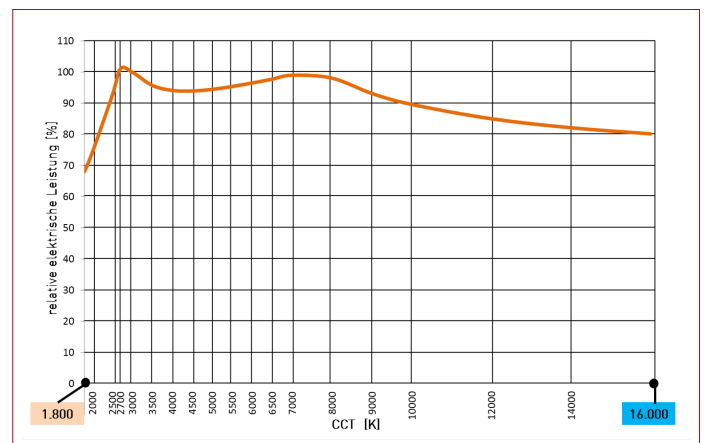
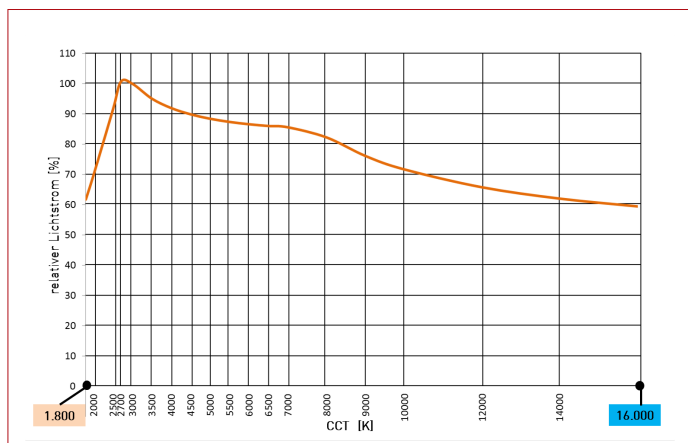
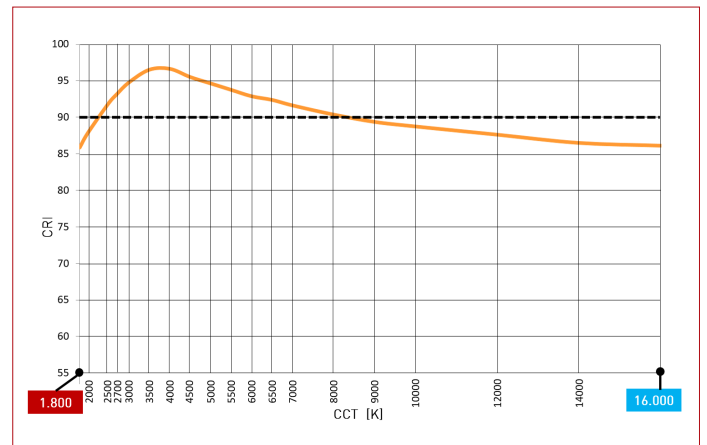
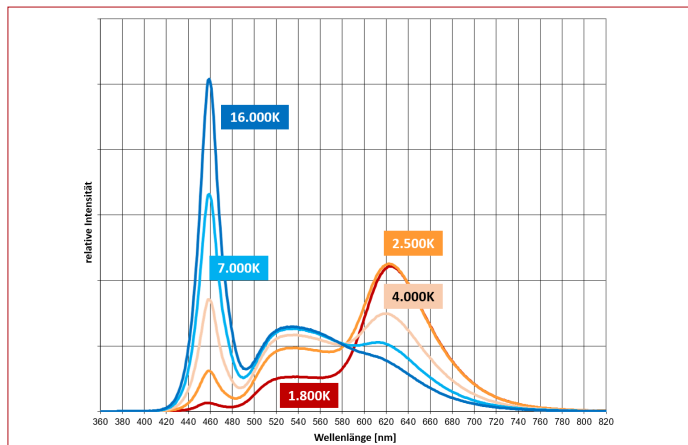
CCT [K]	VISUELL	BIOLOGISCH
	Lichtstrom [lm]	alpha [smel]
1.800	2685	0,231
2.000	3165	0,256
2.500	4040	0,334
2.700	3925	0,376
3.000	3800	0,439
3.500	3685	0,540
4.000	3630	0,634
4.500	3610	0,721
5.000	3610	0,799
5.500	3615	0,870
6.000	3630	0,934
6.500	3650	0,992
7.000	3645	1,043
8.000	3230	1,130
9.000	2950	1,202
10.000	2745	1,260
12.000	2490	1,349
14.000	2330	1,413
16.000	2220	1,460

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](#).

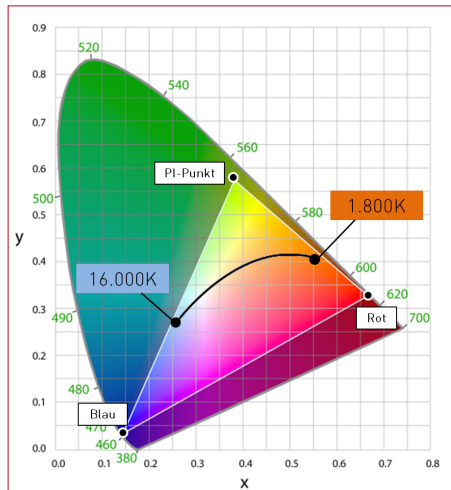
### TYPICAL GENERAL OPTICAL PROPERTIES OF PI-LED



#### 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.

## III COORDINATES AND TOLERANCES ACCORDING TO CIE 1931

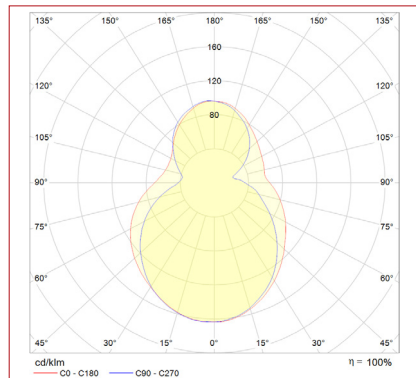


Representable PI-LED colour space in the CIE 1931 system

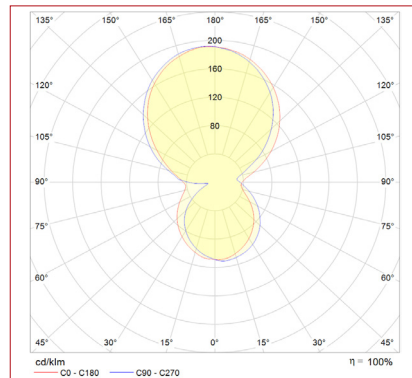
If a colour point outside of the triangle (PI-LED colour space) is set, the closest colour point within the triangle is referenced.

## III LIGHT DISTRIBUTION

### VIBE DIRECT



### VIBE INDIRECT



## 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.

## III REFERENCES

