



## PI-LED® LIQUID



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



**Brightness dimmable**  
1%-100%



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



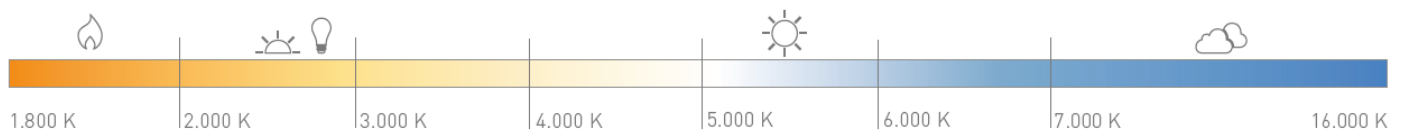
**Biorhythmic lighting**  
Vitalisation and recreation

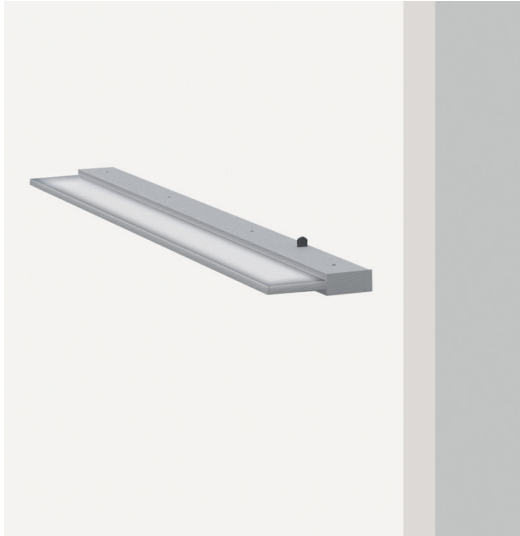


**2 Control modes**  
NeoLink/ZigBee



**Excellent CRI**  
CRI>90





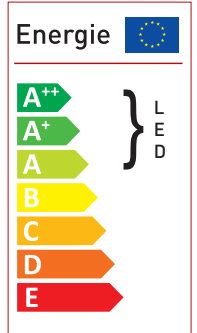
### HIGHLIGHTS

- Unique mirror luminaire with automatic daylight progression
- High colour rendition CRI >90
- Low tolerance for colour temperature
- Control mode: NeoLink/ZigBee
- Integrated overtemperature protection
- Adjustable colour temperature 1.800K - 16.000K\*
- Adjustable CIE-xy colour points and RGB colours
- Dimming: 1%-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 Modules
Supply voltage	230VAC
Power	25 W   25 W   35 W   43 W
LED luminous flux	950 lm   950 lm   1,400 lm   1,850 lm
Control mode	NeoLink/ZigBee 3.0
Dimmable	1%-100%
Protection rating	IP30
Protection class	II
Weight	2.5 kg   3.2 kg   4.0 kg   4.8 kg
Mounting	Surface (wall)



### ORDERING DATA AND TECHNICAL DATA - LIQUID

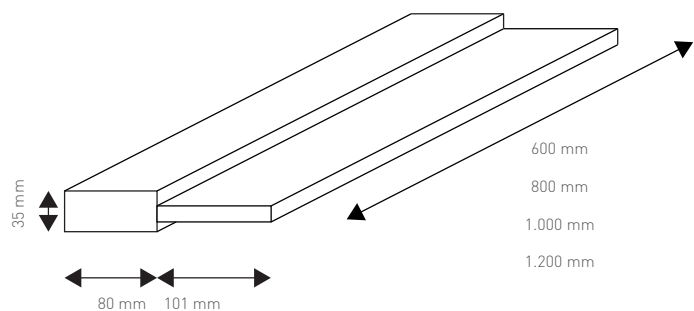
Type	Luminaire
tbd	Liquid Wall sconce / PI-LED / NeoLink / 600mm / Natural anodised aluminium
tbd	Liquid Wall sconce / PI-LED / NeoLink / 800mm / Natural anodised aluminium
tbd	Liquid Wall sconce / PI-LED / NeoLink / 1000mm / Natural anodised aluminium
tbd	Liquid Wall sconce / PI-LED / NeoLink / 1200mm / Natural anodised aluminium

#### Notes:

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

## III TECHNICAL DRAWINGS AND DATA

### LIQUID



### III MELANOPIC EFFECT FACTOR

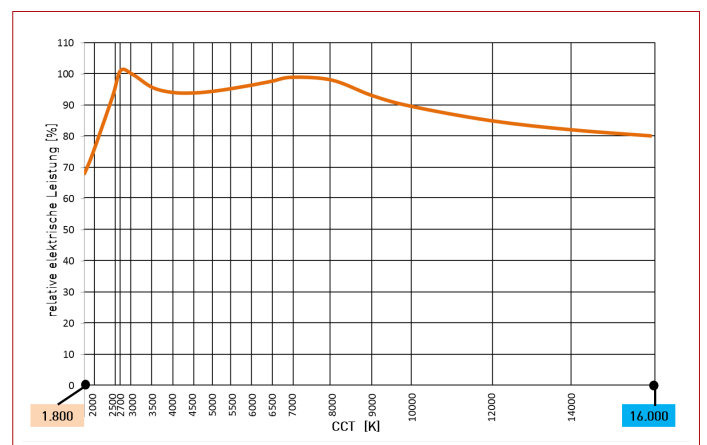
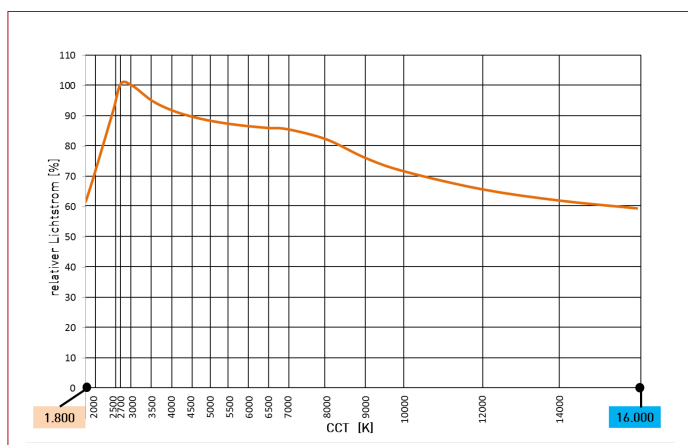
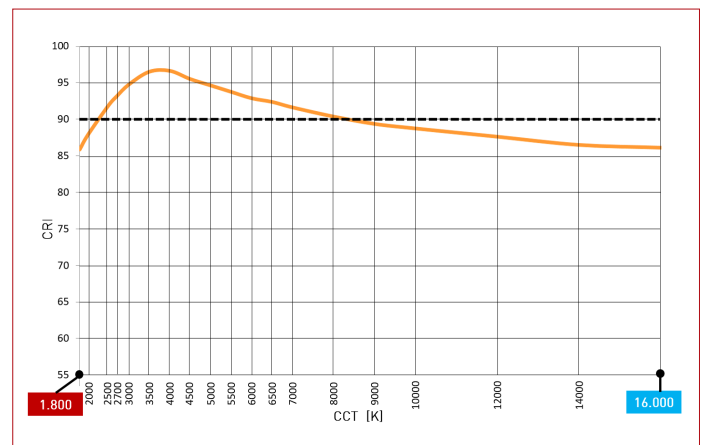
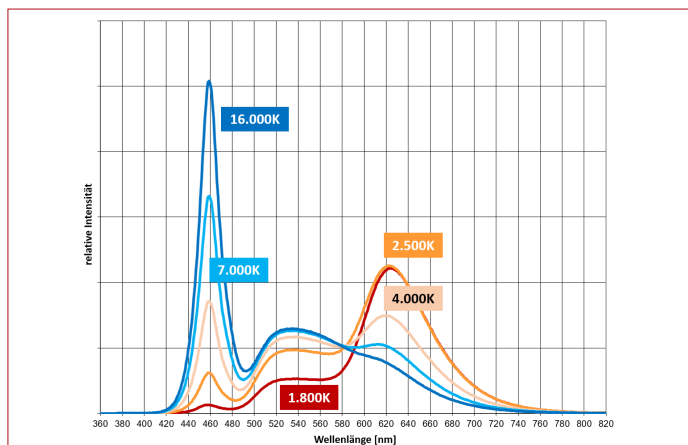
CCT [K]	VISUELL			BIOLOGISCH
	Lichtstrom [lm]			alpha (smel)
	600mm 800mm	1.000 mm	1.200 mm	
1.800	580	850	1125	0,256
2.000	655	960	1270	0,291
2.500	860	1265	1670	0,370
2.700	945	1395	1840	0,399
3.000	950	1400	1850	0,440
3.500	905	1335	1760	0,503
4.000	875	1290	1705	0,559
4.500	855	1260	1665	0,608
5.000	840	1240	1635	0,653
5.500	830	1220	1615	0,692
6.000	820	1210	1600	0,727
6.500	815	1200	1590	0,760
7.000	810	1195	1580	0,789
8.000	805	1185	1565	0,836
9.000	800	1180	1555	0,875
10.000	795	1175	1550	0,906
12.000	790	1170	1540	0,953
14.000	790	1165	1535	0,987
16.000	785	1160	1530	1,012

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](#).

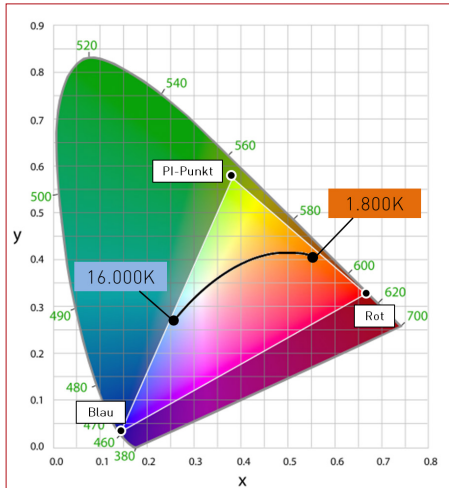
### III TYPICAL GENERAL OPTICAL PROPERTIES OF PI-LED



#### 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.

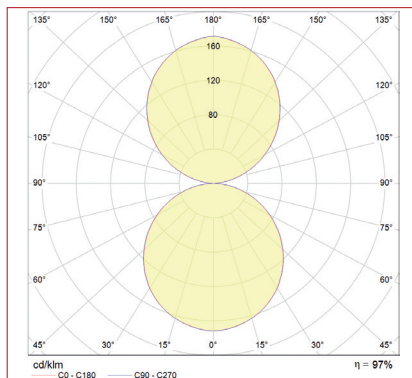
## III COORDINATES AND TOLERANCES ACCORDING TO CIE 1931



**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



## 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.



## REFERENCES

