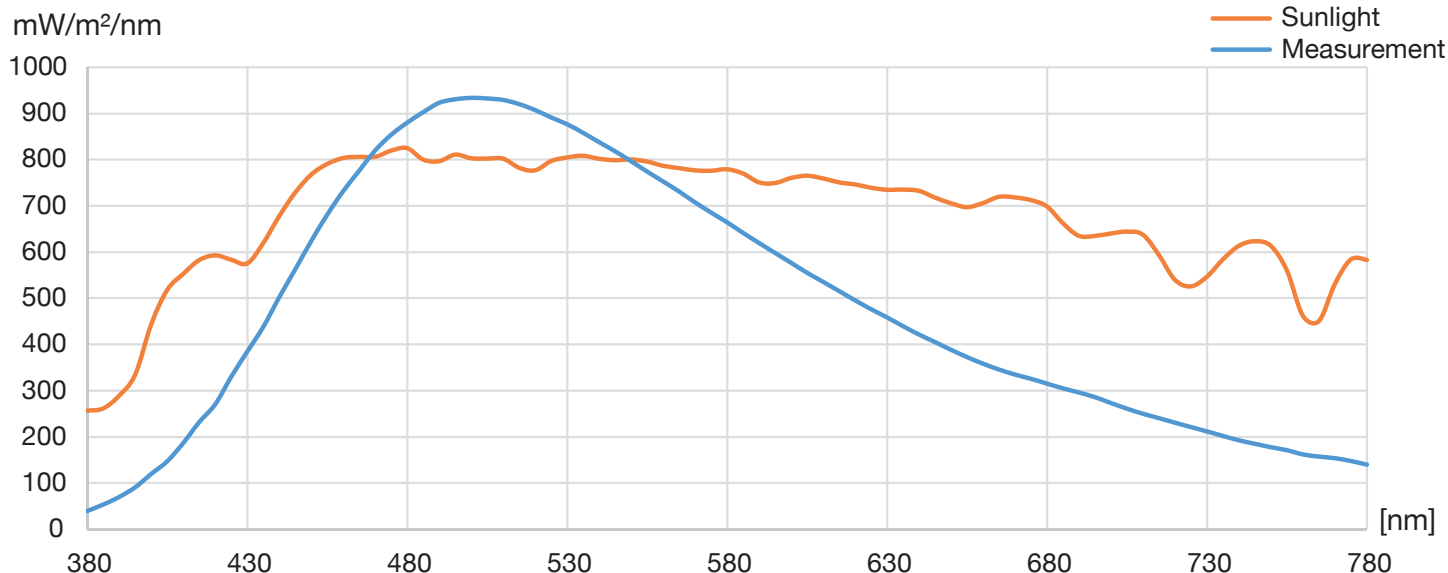


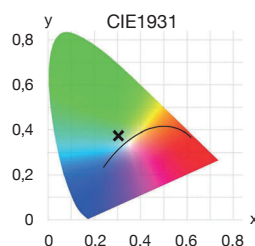
## Technical details

Model: PS32-1450-R-v3.1

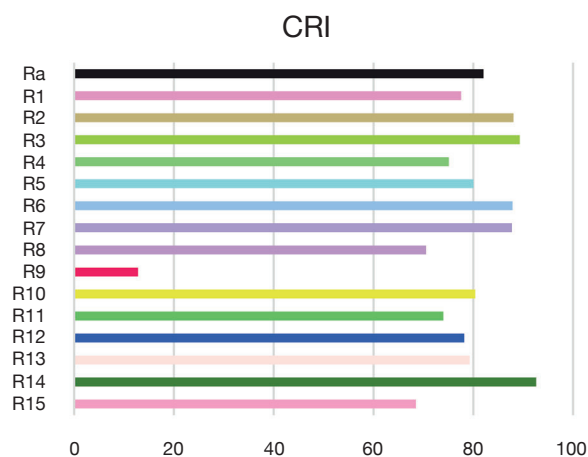
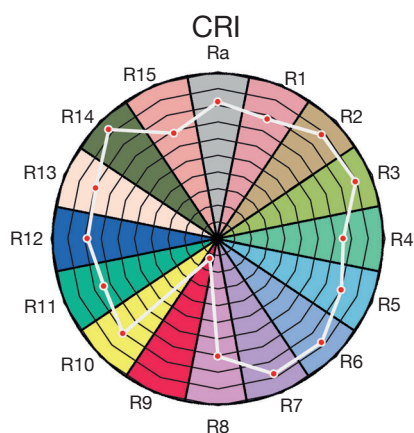
Sulphur Plasma



Color Facts	
Color Temperature	6.600 K
Color Rendering Index	82
Color Coordinate	x=0,304 y=0,374
Measuring Distance	d=0,50 m



R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15	Ra
78	88	89	75	80	88	88	71	12	81	74	78	79	92	68	82

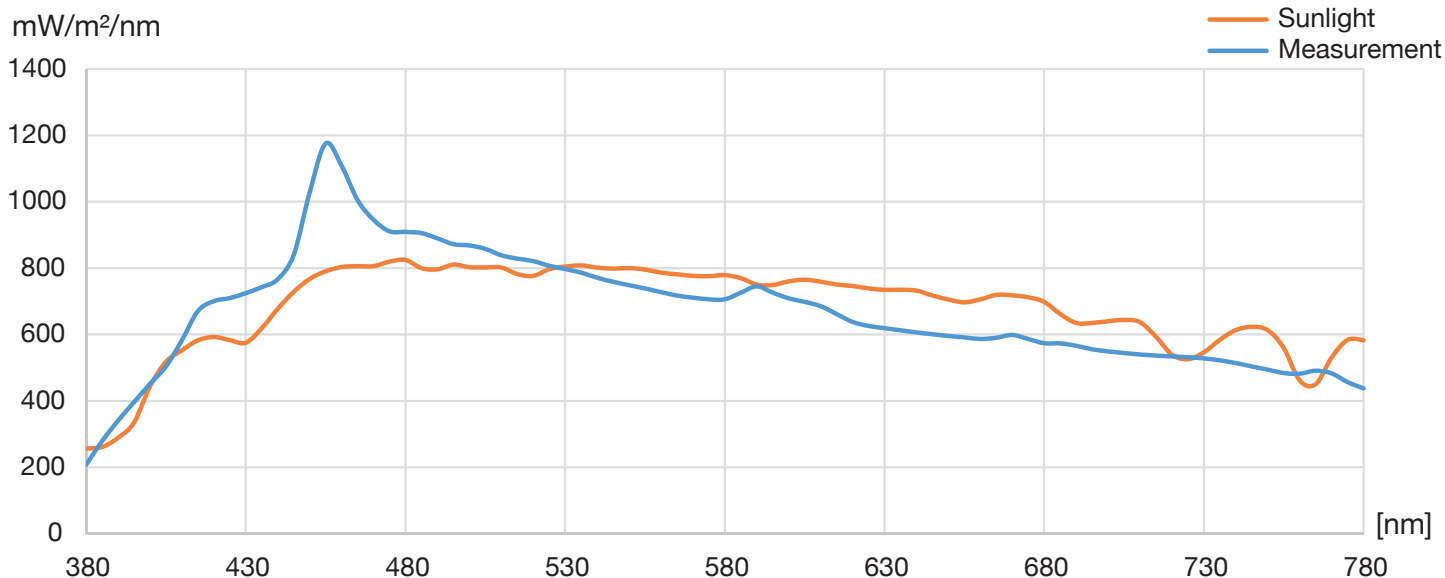


This information is indicative, following the manufacturing batch, the parameters may change slightly. Spectrometer cell measurement is performed at 50 cm with a reproducible setup. Use these values for comparing the relative energetic performance between the bulbs. Information in this document is subject to change without notice.

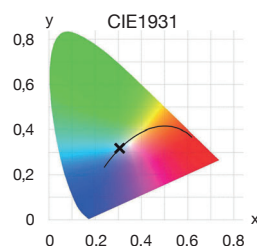
## Technical details

Model: PS32-1450-R-v3.1

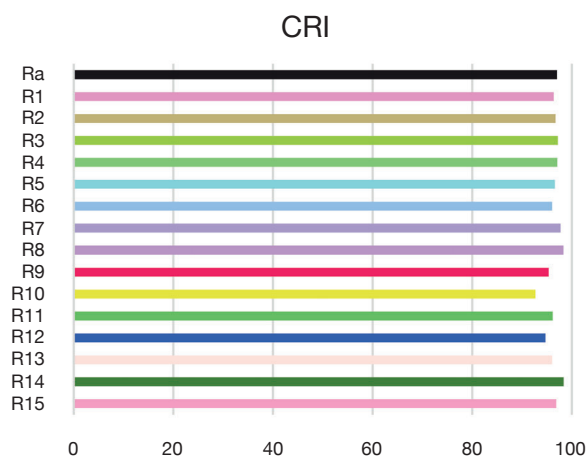
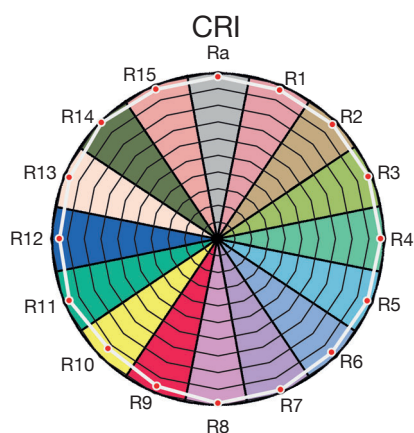
Class A



Color Facts	
Color Temperature	7.000 K
Color Rendering Index	97
Color Coordinate	x=0,306 y=0,317
Measuring Distance	d=0,32 m



R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15	Ra
96	97	97	97	97	96	98	98	95	93	96	95	96	98	97	97



This information is indicative, following the manufacturing batch, the parameters may change slightly. Spectrometer cell measurement is performed at 32 cm with a reproducible setup. Use these values for comparing the relative energetic performance between the bulbs. Information in this document is subject to change without notice.

## Specifications

Model: PS32-1450-R-v3.1

### Full, Continuous & Efficient Spectrum

Lamp Power Rating	1.100 W
Lamp Envelope Sphere Outer	Sulphur: 32 mm
Diameter	Class A: 32 mm
Lamp Rotation	2'780 to 2'800 rpm

### Plasma Lamp and Plasma Engine Datas

System Power Rating	1.450 W (6.5A 230 V AC)
Correlated Colour Temperature	Sulphur: 6.500 - 7.000 K Class A: 7.000 K Sulphur blue: 7.500 - 11.000 K
Discharge Bulb	Electrodeless, Sulphur based
Lamp intensity shift	None
Colour Rendering Index	Sulphur: > 80 Class A: > 97
Total Heat	<26%
Cooling of system	Fan (1 x) 56 dB(A)
Efficiency	Sulphur: 110 lm/W Class A: 45 lm/W Sulphur blue: 85 - 105 lm/W
Luminez Lamp Life (Bulb)	20.000 h (typ.)
Light Engine Magnetron	20.000 h (typ.)
Weight	9 kg
Light Engine Size	L365 x W355 x H300(+max.56) mm

### Electrical Performance

Input data	
Mains supply voltage	230 VAC ±10%
Mains supply frequency	45-65 Hz
Power factor	>0.98 cap. at 1.450 W and 230 VAC
Energy efficiency	EEL A (Index to EC 874/2012)
Output data	
Anode power	100-1.300 W set in 10 W steps Regulated by Potentiometer
Anode voltage	(Application dependent)
Anode current	25-350 mA (Application dependent)
Filament current	4-10 A. (Parameter setting varied by application.)
Efficiency	>95 % at full power
Protection	
Protection class	I ⊕ or II ⊞
Protection degree	IP23
Filament circuit	Open circuit / Short circuit protected
Anode circuit	Open circuit / Short circuit protected
Software/Interface	
Interface	RS 232 optically isolated.
PSU Control 1	Networking Hardware & Software requires a single PC with Windows XP / W7-10 & RS232 port. Can be used to control several light engines.
PSU Control 2	Software including power and temperature monitoring information requires a single PC with Windows XP / W7-10 & RS232 port.

### Narrow Spectrum

Typical spectra	
Center fq	2.45 GHz
Fq scale	0.5 MHz/div
RBW	1'000 kHz
Amplitude scale	10 dB/div
Certification	
EMC	EN 55011

## THE TECHNOLOGY

Using a magnetron, a high frequency electromagnetic field is generated which converts the elements contained in the illuminant body in a plasma. The resulting emitted and highly efficient light corresponds to the character of sunlight. Due to the favourable situation, that no electrodes and filaments are necessary, the lamp life is virtually unlimited. By combining different elements blends we are almost free which light spectrum can be produced. We avoid the use of environmentally harmful components such as mercury and rare earths. This makes this technology an environmentally conscious alternative in the production of high-quality light.

