



#### OSRAM COLOR proof



#### Features and benefits

- In the appropriate luminaires, the first lamp for absolutely correct color balance meets the application requirements of ISO 3664<sup>1</sup>:2009 with  $MVIS \leq 1,0$  and  $MUV \leq 1,5$ <sup>2</sup>
- Ideal for the printing industry, graphic arts businesses, large photo labs, and inspection and color comparison facilities in industry
- Outstanding OSRAM quality: accurate chromaticity coordinate, stable light and electric data as well as uniform coating
- Excellent color rendering ( $R_a = 98$ )
- First-rate luminous flux maintenance and preservation of color properties during the service life<sup>3</sup>
- Environmentally friendly and fully recyclable
- Considerably lower mercury content than required according to RoHS<sup>4</sup>

<sup>1,2,3,4</sup> See back for explanations

## OSRAM COLOR proof.

The first fluorescent lamp for absolutely correct color balance.

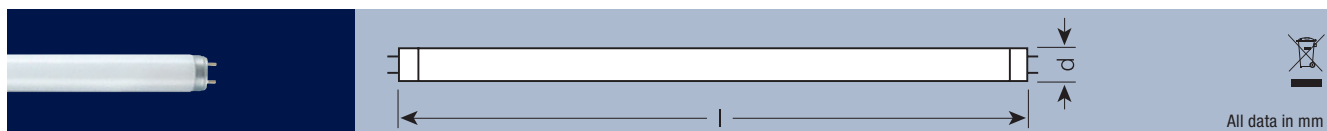
GERMAN  
TECHNOLOGY  
ACCORDING TO NEW  
ISO 3664

SEE THE WORLD IN A NEW LIGHT

**OSRAM**



## TECHNICAL DATA



Product reference	Product number	W	lm		R <sub>a</sub>	K	Tube d (mm)	l (mm)	
<b>OSRAM COLOR proof</b>									
L 18 W/950	4008321423023	18	900	Daylight	98	5,300	26	590	10
L 36 W/950	4008321423047	36	2,150	Daylight	98	5,300	26	1,200	10
L 58 W/950	4008321423061	58	3,350	Daylight	98	5,300	26	1,500	10



### Requirements of ISO 3664

Selected visual color assessment devices were used to check if the application requirements according to ISO 3664 (2009-04-15) were met. The result:

- Maintenance of the indices of metamerism<sup>2</sup>  
MVIS ≤ 1.0 and MUV ≤ 1.5
- Accuracy of chromaticity coordinate:  
better than 0,005 for u<sub>10</sub>/v<sub>10</sub> = 0,2102/0,4889  
in CIE 1976 UCS chromaticity diagram
- Color rendering: R<sub>a</sub> > 90 with R<sub>i</sub> > 80 for i = (1, 2, ... 8)

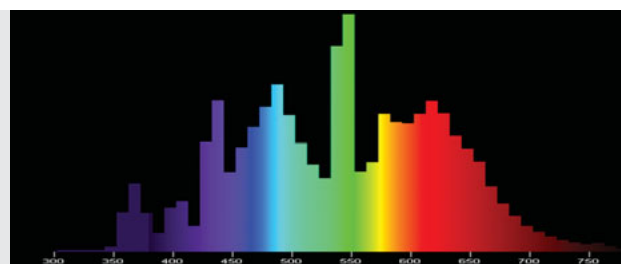
In combination with the appropriate quality luminaires, the requirements can be met with the OSRAM COLOR proof.

*This light will not miss anything: OSRAM COLOR proof makes for excellent color rendering.  
The ideal lighting solution when absolutely correct color balance is crucial.*

### Spectral light distribution of the new OSRAM COLOR proof in color 950.

Supreme daylight quality:

a specifically developed phosphor mixture makes it possible to distinguish the most subtle color nuances.



<sup>1</sup> ISO 3664 defines the requirements for color matching in the printing industry. The requirement of this standard shown here relates to luminaires and lamps.

<sup>2</sup> The index of metamerism in the visible (MVIS) and ultraviolet area (MUV) describes the color difference between pairs of color samples which is observed when the type of lighting is changed. The color pairs show no difference in color for lighting with the standard spectrum D50: the colors are perceived as identical, i. e., the indices of metamerism equal zero. The smaller the indices for artificial lighting, the more the light approaches D50 and the more reliable and suitable is the light source for color matching.

<sup>3</sup> The service life for this special application is considered the point in time when the lamp's color properties are still maintained.

<sup>4</sup> Restriction of the use of certain hazardous substances (2002/95/EC).