SATA® trueSun™

German Engineering

The Daylight Solution

SATA trueSun – the Daylight Solution

The selection of the correct colour shade for refinishing a vehicle requires a source of light that preferably reproduces the entire colour range of visible light (daylight) as accurately as possible. The SATA trueSun LED lamp which was especially designed for this purpose allows a professional colour shade evaluation and identification within the paintshop. Any rework caused by an incorrect colour identification and the respective rectification cost involved does not leave any room for compromise when selecting the daylight lamp. Even avoiding one rework covers the purchase cost for this high quality product.

Uniform distribution of the light intensity

The uniform light distribution across the entire illuminated area simplifies the selection of the right color shade. The light intensity can be adjusted continuously via a sliding control.
The light intensity remains unchanged for the entire battery capacity.

Light cone of the SATA trueSun
at maximum light power, uniform distribution of the light intensity – colour temperature neutral

PRODUCT BENEFITS

- Best possible near daylight reproduction of different color shades
- Uniform distribution of the light intensity across the entire light cone
- Battery life approx. 70 minutes at full light intensity
- Uniform light intensity – unaffected by battery charge levels
- Charging cycle time of 50 minutes only
- Infinitely adjustable light intensity
- Built-in charge level display
- Near daylight reproduction of colour pigments
- Coating flaws such as mottling can be easily detected

Colour shade does not match (red tint).

Colour shade and metallic effect do not match.

Technical Data

LED light

Total weight	approx. 470 g
CRI value	97
Temperature of the material	approx. 5,600 K
Light intensity (lux)	22,000 lx at 30 cm distance
Operating temperature LED lamp	0°C – 40°C
Storage temperature LED lamp	-20°C – 80°C
Battery life at full light intensity	approx. 70 min.
Battery operating time	approx. 70 min.

Battery

Weight	300 g
Rated voltage	10.8 V
Capacity	2.7 Ah
Max. charging current	2.5 A
Max. discharging current	5 A
Charging temperature	0°C – 45°C
Discharging temperature	0°C – 60 °C

Charger

Weight	390 g
Rated voltage input	100 – 120 V (50/60 Hz) / 220 – 240 V (50/60 Hz)
Rated voltage output	10.8 V
Charging current	2.4 A
Charging time	approx. 50 minutes
Charging temperature	10°C – 45°C
Protection rating	II
Operating temperature	0°C – 40°C

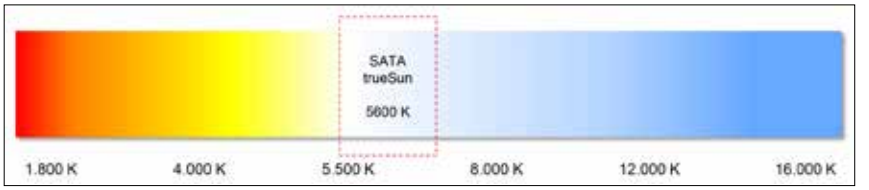
WARNING: The use or storage of the SATA trueSun LED lamp as well as the batteries and chargers in explosive or inflammable areas is prohibited.

Colour shade and metallic effect match.

KNOWLEDGE

Temperature of the material

The colour temperature of a light source is indicated in Kelvin (K). The temperature has influence on the optic impression. Therefore, it should be in a neutral range when defining the colour shade. The daylight (sunlight) at noonday sun has a colour temperature of approx. 5,500 – 5,800 K.



Adjustable light intensity

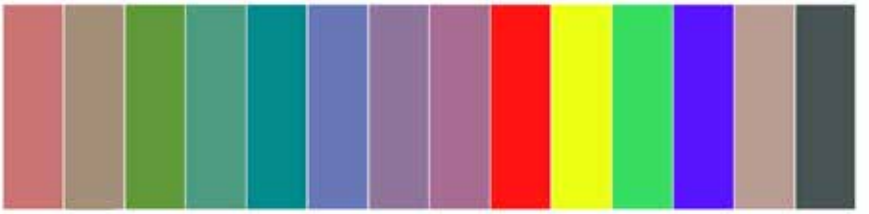
Battery level display

CRI value

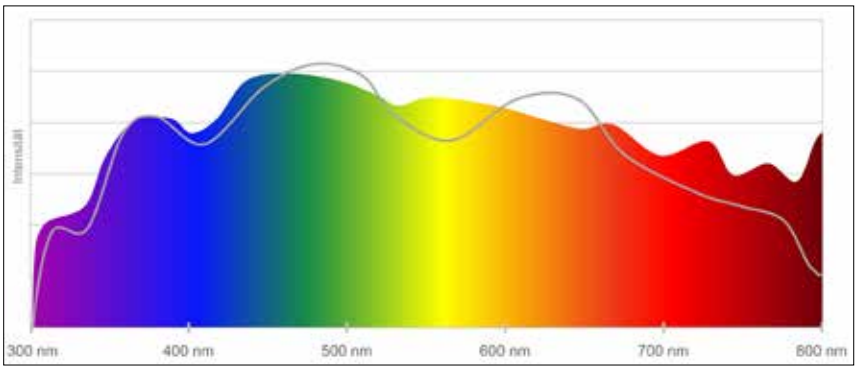
The CRI value (Colour Rendering Index) indicates the quality of the colour reproduction of a light source. This value is composed of the average value of 14 defined reference colours.

Daylight CRI value: 100

SATA trueSun CRI value: 97



Spectral distribution – daylight & SATA trueSun



Daylight SATA trueSun

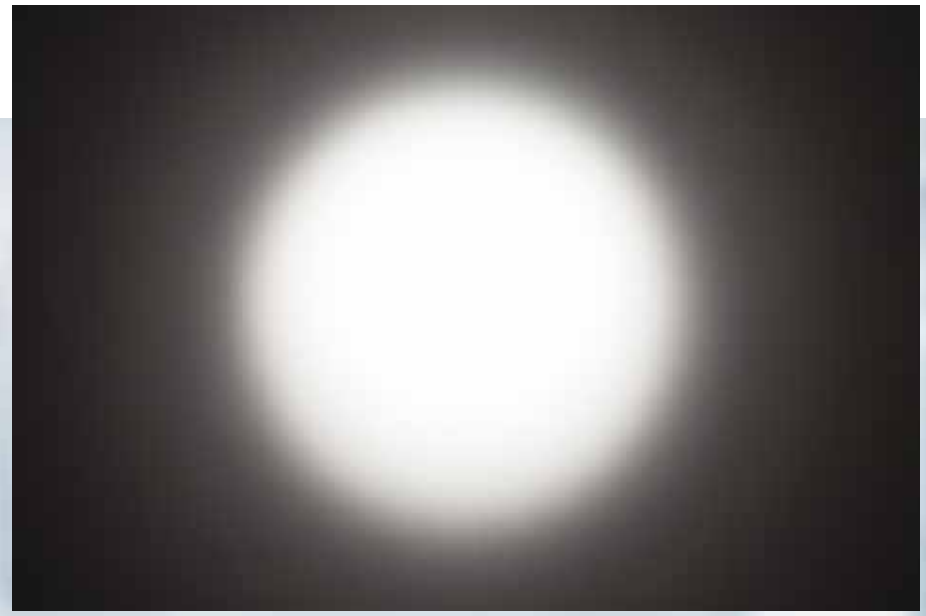
Lux (lx)

Lux indicates the illumination intensity of a light source.

Daylight lux value: up to 100,000 lx

SATA trueSun lux value: 22,000 lx at 30 cm distance

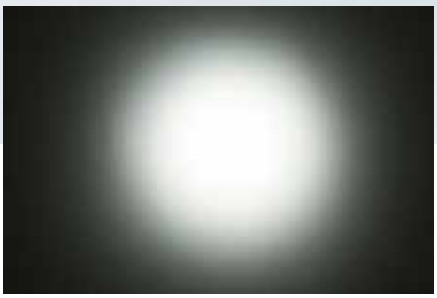
Daylight lamps used for colour shade determination, by comparison



Light cone of the SATA trueSun
at maximum light power, uniform distribution of the light intensity – colour temperature neutral

Example high quality torch manufacturer A
Very small, non-uniformly illuminated surface, strong yellow coloration

Example daylight lamp manufacturer B
Uniform distribution of the light intensity, but very strong yellow coloration.



Example daylight lamp manufacturer C
inconsistently illuminated surface, edges appear greenish/bluish

Example daylight lamp manufacturer D
inconsistently illuminated surface, edge appear reddish.

SATA trueSun
incl. battery charger and battery
Art. No. 1006411

Storage case
incl. foam inlay
Art. No. 1013094

Accessories	Art. No.
Foam inlay with shaped area for storage case SATA trueSun	1013151
Shock protection	1012096
Protective glass	1012137
Battery	1010082
Battery charger (EU)	1007154

Only the best for professional vehicle refinishing

The quality of a paint job is primarily assessed through visual factors, such as colour match, colour effects, gloss, distribution, etc. The spray gun plays a crucial role in the coating process and significantly contributes to ensuring high quality standards. Consistency in the quality standard is a basic requirement during the entire coating process.

High quality, state-of-the-art spray guns are of vital importance for a secure work process. At the same time, it also must be ensured that **technically clean compressed air** is available to achieve the expected high-quality finishes. Effective **health proctection** to preserve the well being of the staff on the shop floor is another important element.

For all of these areas, SATA offer product solutions designed to meet the daily requirements in a bodyshop.

For further information, please check **www.sata.com**

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