SATA® trueSun™

SATA

German Engineering

The Daylight Solution

SATA® trueSun™ – the Daylight Solution

The selection of the correct color shade for refinishing a vehicle requires a source of light that preferably reproduces the entire color range of visible light (daylight) as accurately as possible. The SATA® trueSun™ LED lamp which was especially designed for this purpose allows a quick and easy professional color shade evaluation and identification within the body shop. When selecting the right daylight lamp there is no room for compromise, any rework caused by an incorrect color identification is an expensive mistake with high rework costs. Avoiding one rework covers the purchase price for this high quality product.

Uniform distribution of the light intensity
The uniform light distribution across the entire illuminated area simplifies selecting the right color shade. The light intensity can be adjusted via the sliding control on the back of the light.
The light intensity remains the same throughout the entire battery life, which removes aggravating interruptions during the color match process.

Light cone of the SATA® trueSun™
at maximum light power, uniform distribution of the light intensity edge to edge – color temperature is neutral

PRODUCT BENEFITS

- Near perfect daylight conditions on any color shade, no need to move the project outside
- Uniform distribution of the light intensity across the entire light cone
- Battery life approximately 70 minutes at full light intensity, lasting for an entire days production in most shops

- Uniform light intensity – unaffected by the battery charge level
- Fast charging cycle time of approximately 50 minutes
- Adjustable light intensity
- Built-in charge level display
- Near daylight reproduction of color pigments
- Coating flaws such as mottling and poor hiding can be easily detected

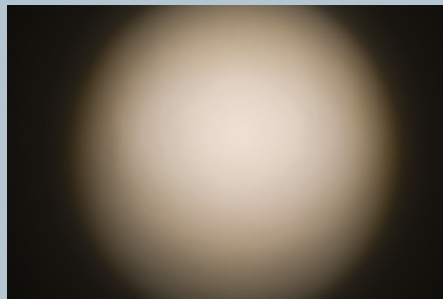# Daylight lamps used for color shade determination, by comparison

Light cone of the SATA® trueSun™
at maximum light power, uniform distribution of the light intensity edge to edge – color temperature is neutral
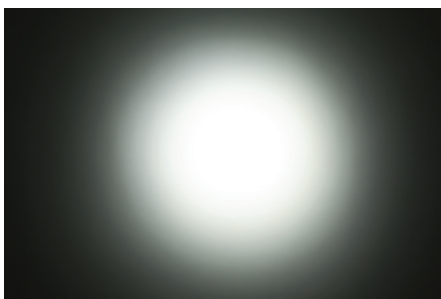

Example high quality flashlight manufacturer A
Very small, non-uniformly illuminated surface, strong yellow coloration
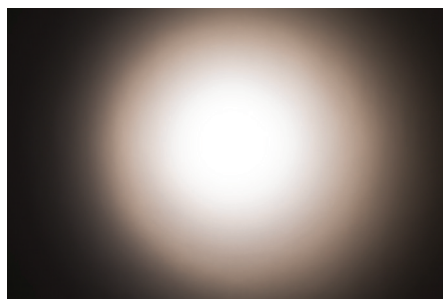

Example daylight lamp manufacturer B
Uniform distribution of the light intensity, but very strong yellow coloration.

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

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

Color shade does not match (red tint).

Color shade and metallic effect do not match.

For more info and brochure
sata.com/truesun

Sturdy shock protection

light intensity can be adjusted into nine different positions

Daylight LED with interchangeable protection screen

Ventilation

On/Off switch
Automatic shut-off

Ergonomic handle

Built-in battery charge level display

Powerful Lithium-Ion battery

SATA trueSun

Technical Data

LED light

Total weight	approx. 1.04 pounds
CRI value	97
Color Temperature	approx. 5,600 K
Light intensity (lux)	22,000 lx at 11.8" distance
Operating temperature LED lamp	32°F – 104°F
Storage temperature LED lamp	-4°F – 176°F
Battery life at full light intensity	approx. 70 min.
Battery operating time	approx. 70 min.

Battery

Weight	.66 pounds
Rated voltage	10.8 V
Capacity	2.7 Ah
Max. charging current	2.5 A
Max. discharging current	5 A
Charging temperature	32°F – 113°F
Discharging temperature	32°F – 140°F

Charger

Weight	.86 pounds
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	50°F – 113°F
Protection rating	II
Operating temperature	32°F – 104°F

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.

Color shade and metallic effect match.


Adjustable light intensity

Battery level display

Color temperature

The color 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 color shade. The daylight (sunlight) at noonday sun has a color temperature of approximately 5,500 – 5,800 K.
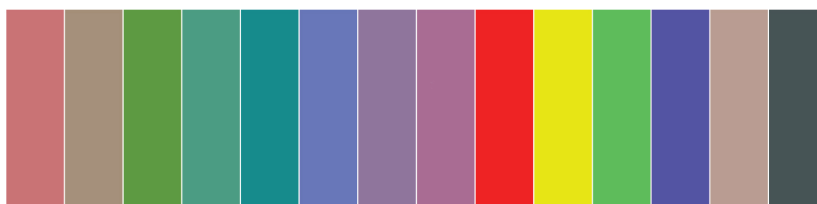

SATA trueSun 5600 K

| 1.800 K | 4.000 K | 5.500 K | 8.000 K | 12.000 K | 16.000 K |
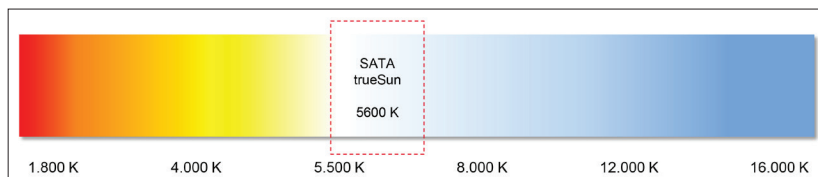
CRI value

The CRI value (Color Rendering Index) indicates the quality of the color reproduction of a light source. This value is composed of the average value of 14 defined reference colors.

Daylight CRI value: 100
SATA® trueSun™ CRI value: 97

Spectral distribution – daylight & SATA® trueSun™

Intensität

| 300 nm | 400 nm | 500 nm | 600 nm | 700 nm | 800 nm |

Daylight   SATA® trueSun™
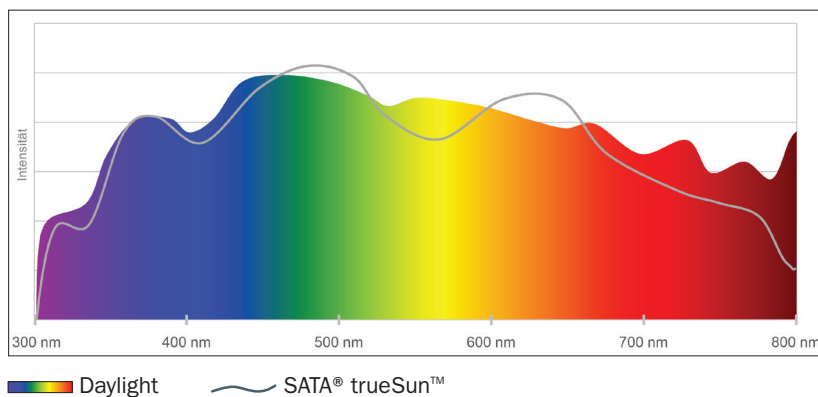
Lux (lx)

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 11.8 inch distance

Only the best for professional vehicle refinishing

The quality of a paint job is primarily assessed through visual factors, such as color match, color 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 quality work process.
At the same time, it also must be ensured that **clean compressed air** is available to achieve the expected high-quality finishes.
Effective **health protection** to preserve the well being of the staff in the paint booth is another important element.

For all of these areas, SATA offers product solutions designed to meet the daily requirements in a body shop.

Watch
the video at
www.satausa.com