



Semray® UV4203 LED Curing Solution

A high-power air-cooled LED system offering the flexibility to optimize your process in a wide variety of applications

The global UV curing market is growing at nearly 20% over the next 5 years, with UV-LED curing growing at 25 - 30% due to increased worldwide environmental awareness and regulations.

Simple

Compact modular housing designed for easy installation/replacement



Powerful

Up to 15% higher UV output than last generation



Robust

Thermal management redesigned to optimize durability



Flexibility

Optimize your curing process with adjustable width, working distance & intensity



Product Advantage:

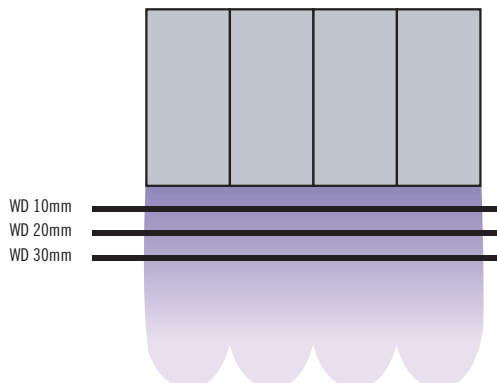
- High-intensity, robust air-cooled system
- Dimming from 20% to 100%
- Homogeneity >90% from 20 mm working distance
- Compact modular design with daisy chain data cables, scalable for different widths
- Replaceable LED engine

Technical Data:

Features	Parameter			
Peak wavelength ¹⁾ [nm]	365	385	395	405
Typical intensity at emission window [W/cm ²]	12	13	16	16
Power Consumption [W]	400	520	600	600
Emission window (WxD) [mm]	75 x 45			
Dimensions (WxDxH) [mm]	77 x 150 x 256			
Communication	Analog and RS485 MODBUS			
Operating temperature [°C]	10 - 40			
Operating humidity	80%(Max.)			
Cooling type	Air-cooled			
Fan speed [RPM]	16500 (Max.)			
Noise level [dbA]	<68			
Enclosure Rating	IP20			

1) Tolerance for 365 nm is +6 nm /-5 nm and for 385 nm, 395 nm, 405 nm +/- 5 nm.

irradiance uniformity:



* typical energy consumption is measured and calculated in lab environmental conditions

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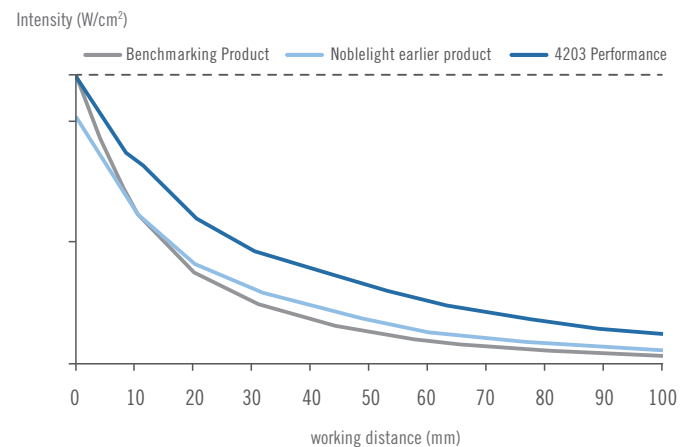
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Customer Benefits:

- High productivity: significantly higher line speeds achievable
- Reduced downtime: quick and easy LED module removal, replaceable LED engine
- Space saving: compact design without water chiller or hoses
- Over 50% power consumption reduction vs. current UV lamp technologies.*
- Sustainable: VOCs, CO₂, ozone, and mercury free

irradiance output:



replaceable LED engine:

