

Lovibond® Colour Measurement

Tintometer® Group



Lovibond® RT 850f

High Performance Benchtop Spectrophotometer

Tri-Stimulus Flour Colour Measurement

Completely Compliant with the Campden BRI R&D Report No. 262

- ✓ Spectrophotometer
- ✓ d:8° Geometry (falling within the definition of CIE d:0)
- ✓ Large (25mm) illuminated, horizontally mounted aperture
- ✓ Measures specular component excluded
- ✓ Reports CIELAB, D65 illumination, 10° Observer

Lovibond® RT850f

High Performance Benchtop Spectrophotometer

The Lovibond® RT850f (also marked as the X-Rite Color i5 and RT850i) is the Key component of the Lovibond® Flour Colour Package. Everything is included to allow you to accurately measure and hence grade flour, following methods developed at Campden BRI (Campden BRI R&D Report No. 262).

To make a measurement on a flour sample the RT850f is placed in the supplied stand and operated in an upright configuration. An optical glass powder cell is filled with the flour sample and placed on top of the horizontal measurement aperture. The colour of the flour is then measured through the bottom of the cell.

Ten Powder Cells are supplied with the RT850f Flour Colour Package. Additional Powder Cells can also be purchased. Optional accessories allow the precise evaluation of bread crumb and crust colour.

The RT850f gives fast precise and accurate colour measurements. OnColor™ Lite Software, which controls the RT850f, is included as standard as part of the package. The software allows reference/standard measurements and associated sample trails to be stored and managed. Thus previous measurements can be located at a later date and compared with current measurements.

Measurements can be exported in spreadsheet and text compatible formats for further analysis or use in reports.

Lovibond® is a leading Global Colour Analysis instrument manufacturer and, in co-operation with Calibre Control International, provides world class leading technical, service and application support for the RT850f Flour Colour Package.



Specification	Lovibond® RT850i
Spectrophotometer	Horizontal Aperture Mode Using Supplied Stand
Geometry	d:8°
Sphere Diameter	152 mm
Specular Component	Simultaneous
Detector	CCD Array
Light Source	Pulsed Xenon
Photometric Range	0-200%
Spectral Range	360-750 nm
Wavelength Interval	10 nm
Reflectance Resolution	0.01%
Inter-instrument	0.15 ΔE* avg.
Agreement	(13 BCRA tiles)
Repeatability (white)	0.03 ΔE* avg.
Measurement Time	Approx. 2.5 sec
Weight	12 kg
Software Interface	USB/RS 232
Transmission Measurement	Direct and Total
Fluorescent Measurement	Auto UV Calibration
UV Exclusion Filtration	400 nm
View Aperture Size	6.0/10.0/25.0 mm
Required Computer	IBM Compatible
Software	OnColor™ Lite (supplied)
Sample Holder	Dampening
Sample Positioning	Computer Imaging with Physical Reticle
Standard Warranty	1 year
Purchasable Options	Additional Powder Cells
Power	100 - 240 VAC / 50 - 60 Hz
Environment	Operating Temperature 50° to 95°F (10° to 35°C) 20 - 80% RH non-condensing

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