Consolite Technology Data Sheet

Material Ref: **CTL-R169**

Function: **Filter Material, High Contrast, Green LED Display, ITO Coated**

Description

The material is an absorption filter of polymeric construction developed specifically for a major ground equipment programme. It is optimised for use with a green LED display, of nominally 574nm peak wavelength, to provide full compliance with MIL-STD-3009 and the US CECOM secure lighting requirements.

It also functions as a very efficient contrast enhancement filter as the narrow band spectral transmission peak is closely matched to the LED emissions to ensure optimum visibility of the display. It has a laminated ITO coated film to the rear with nominal resistivity 50 Ω/□.

Nominal thickness: 2.0mm

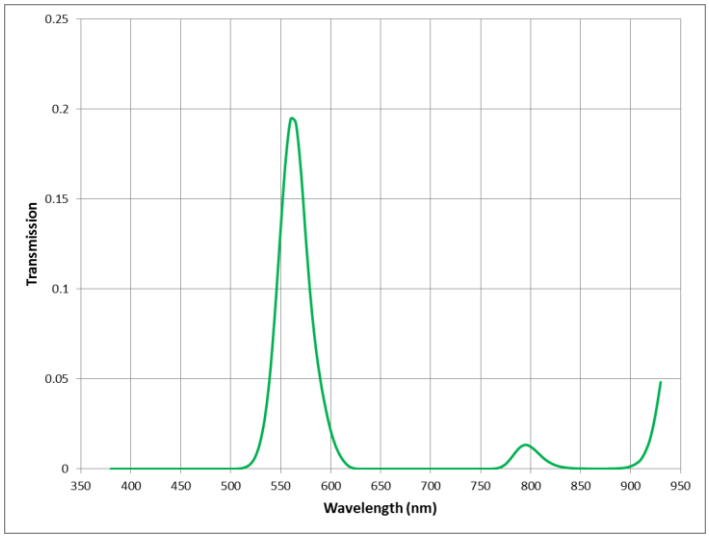
Other variants are available, please enquire.

Performance

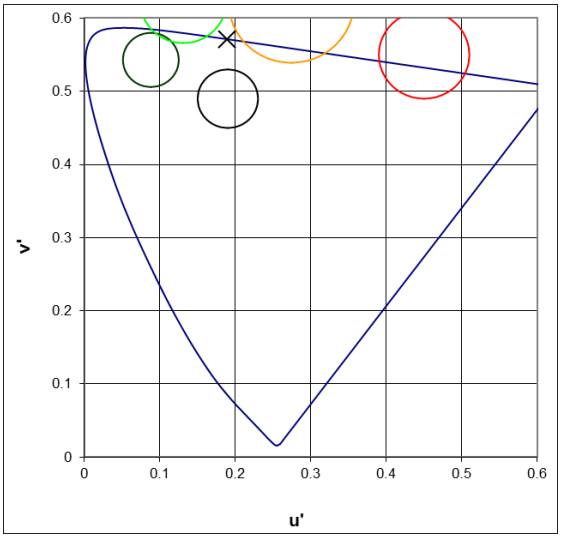
Indicative performance figures below are quoted for CTL-R169-2 in combination with a typical LED display of peak wavelength 570nm, and may vary.

Display NVIS Radiance per MIL-STD-3009 @ 0.1fL		Integrated Radiance % (700-930nm) (380-930nm)	Chromaticity		Photopic Transmission
NR_A	NR_B		u′	v′	
6.10E-11	5.03E-12	< 0.04%	.189	.571	12%

Spectral Transmission



Chromaticity Coordinates (CIE 1976)



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