



Consolite® Technology Ltd

St. Martins Business Park, Bells Lane, Zeals, Wiltshire, BA12 6LY, UK

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www.consolite.co.uk Certified to ISO9001:2015

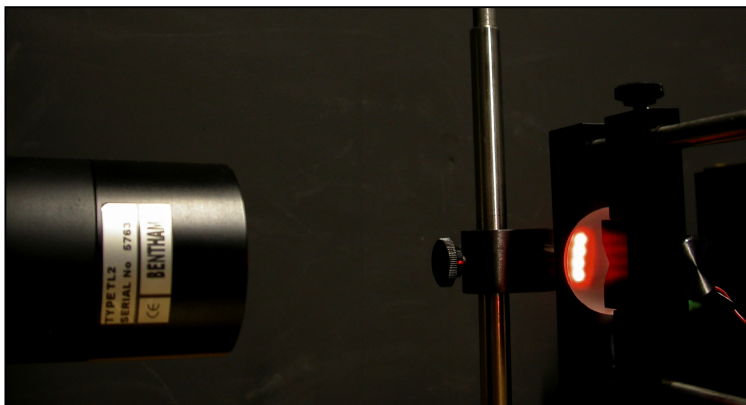
Consolite Technology Data Sheet

Dark Room Test Facility

Consolite Technology offers a range of measurement options through its dark room test facility. Although primarily used in support of its own development activities the facility is also available, with a qualified test engineer, to customers wishing to check their own equipment for compliance with NVG compatibility standards and other factors.

Measurement possibilities include:

-)] NVIS Radiance (NR)
-)] NVIS Radiant Intensity (NRI)
-)] Chromaticity
-)] Green/Red Ratio
-)] Filter Transmission
-)] Luminance
-)] Luminous Intensity
-)] Radiance
-)] Radiant Intensity
-)] Illuminance
-)] Irradiance
-)] Contrast
-)] Luminaire output distribution
-)] Total luminous flux
-)] Photometric file generation
-)] Illumination modelling



Measurements can be conducted on all types of equipment, ranging from the smallest indicators and switches, through illuminated panels and displays, up to large high output floodlights. Areas of application include aircraft lighting, warship lighting, military vehicles, ground based equipment, simulators, and training facilities.



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NVG compatibility measurements are made in accordance with appropriate standards including:

- | | |
|--------------------|---------------------------|
|)] MIL-STD-3009 |)] STANAG1445 |
|)] RTCA/DO-275 |)] Def Stan 02-587 Part 3 |
|)] Working Paper 6 |)] CECOM Secure Lighting |

If requested we will be pleased to make recommendations to guarantee compliance.

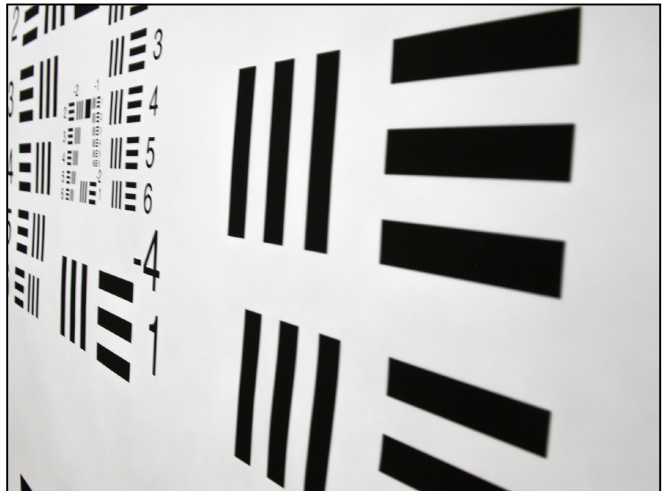
Test equipment available includes:

-)] Bentham Double Monochromator Spectroradiometer with DMc150FI Monochromator
-)] Gooch & Housego OL770-NVS Spectroradiometer
-)] Ocean Optics USB200+ Spectroradiometer
-)] Radiant Zemax NFMS Goniophotometer
-)] Gigahertz Lux Meter with VL-3701-2 Illuminance & LDM-9810 Luminance detectors
-)] Bentham IL_SUN lamp
-)] Minolta CS-100A Chroma Meter
-)] Gen III Aviators' NVGs & Gen II & III Monocular NVD

Testing is charged at a fixed hourly rate. A simple test on an individual instrument or panel could be as little as one hour. More complex tests of large panels or displays might take three or four hours.

We have a range of bench power supplies to meet most requirements, but will always need a test harness and detailed drive instructions before starting a test of any specialised equipment.

A written report can be provided, including test data, charged at the same rate, ranging from one hour for a basic report on a simple test, through to several hours for more complex and detailed test reports. A fixed price is always agreed in advance.



Consolite can also assist with customer field testing as required, including cockpit lighting in accordance with standards such as RTCA/DO-275, and warship lighting to Def Stan 02-587 Part 3.