VeriVide
USEFUL LAMP DATA

1. COLOUR TEMPERATURE - expressed in Kelvin. (K)

Colour temperature describes the colour appearance of the lamp itself and the light it emits and can vary along with its spectral power distribution.

"Correlated" colour temperature applies to fluorescent lamps and approximates the true colour temperature.

- Lamps with lower colour temperatures appear warmer i.e. red/orange and typical examples would be the Fluorescent Lamp 830.
- By comparison, lamps with a higher colour temperature look bluer, and examples would include the VeriVide D65 .

2. COLOUR RENDERING INDEX (CRI)

A numerical system that measures how well colours are rendered by a lamp in comparison to a reference light source. The CRI is measured on an index from 0-100, with 100 representing an exact match, whilst low values indicate poor colour rendering.

- Hence a lamp rated with a CRI of 98 such as the VeriVide D65 will show colours more accurately than a lamp with a CRI rating of 62 such as the Cool White Fluorescent (CWF).

This rating method is recognised by the Illuminating Engineering Society (IES) and the Commission International de L'Eclairage (CIE).

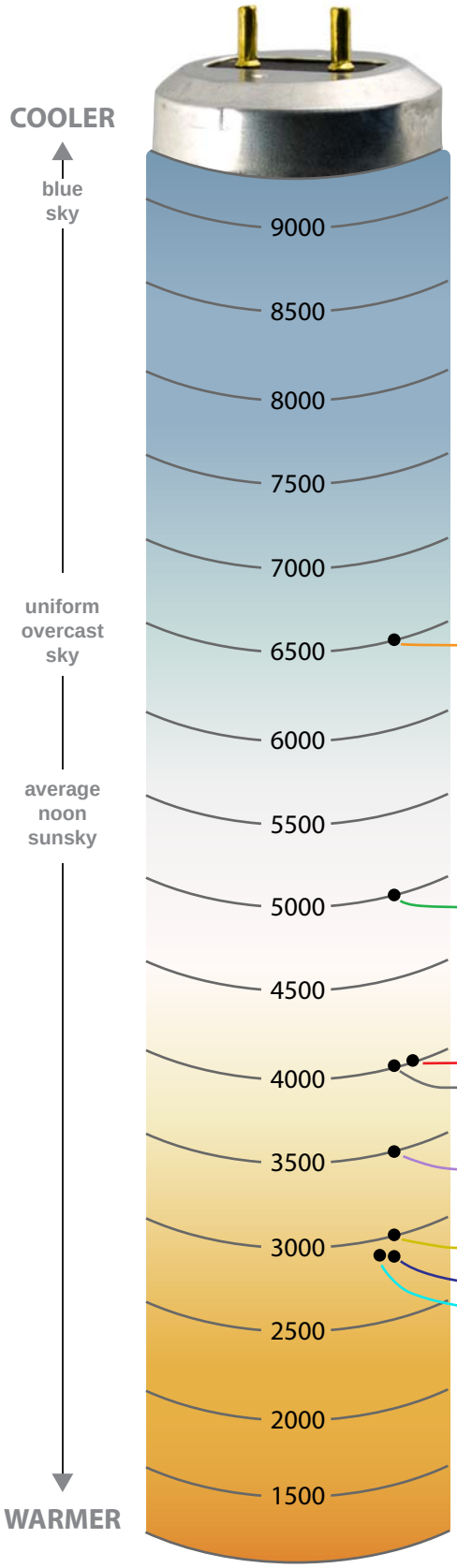
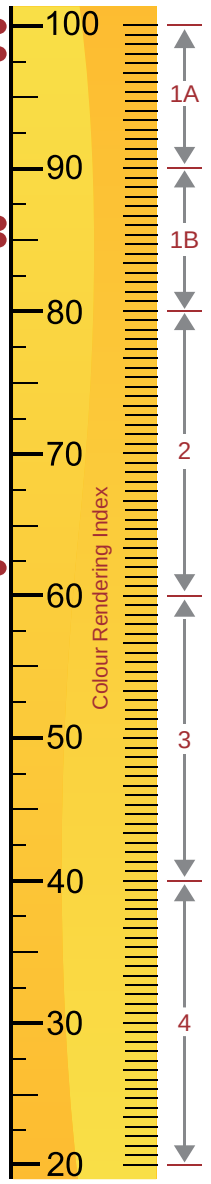


Fig. 1
Colour temperature, in Kelvin,of some of VeriVide's lights sources



CIE Colour Rendering Group

1A — Where accurate colour matching is required e.g. colour printing inspection.

1B — Where good colour rendering is required e.g. shops and other commercial premises.

2 — Where moderate colour rendering is acceptable e.g. shops and other commercial premises.

3 — Where colour rendering is of little significance but marked distortion of colour is unacceptable.

4 — Where colour rendering is of no importance.

Fig. 2
General colour rendering index and typical applications

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