Color Viewing Technology

Detect and correct spot color discrepancies before customers do with a selection of lighting solutions for critical color decisions. These evenly balanced systems eliminate guesswork and streamline the approval process to ensure color harmony throughout a supply chain.


X-Rite is a world leader in providing global color control solutions for manufacturing and quality management requirements. We lead the industry in offering service options to ensure uninterrupted performance of all X-Rite products. Training and educational resources are available globally and online for both new and experienced users to optimize their color measurement capabilities.

Visit xrite.com for more information about X-Rite products. X-Rite customers worldwide may also call the Applications Support team at CASupport@xrite.com or Customer Service at 800-248-9748.
Macbeth Lighting Advantages

- **Eliminate False Readings.** Daylight-based technology assures lighting is evenly balanced across the color spectrum, providing a consistent, accurate rendering of color.
- **Avoid Metamerism Issues.** Multiple light sources allow for viewing under different conditions, removing the risk of metamerism, a condition in which samples matched under one light source do not match under another.
- **Organize Color Programs.** Precise technology enables an entire supply chain to efficiently manage color decisions.
- **Targeted Choices.** Products allow for selection based on overall color requirements, product type, and industry demands.
- **Build In Reliability.** Products come complete with NIST traceable certification.
- **Easy to Use.** Products and components are readily available and designed for easy access for servicing and lamp replacement.

Lighting Systems At A Glance

<table>
<thead>
<tr>
<th>Lighting Systems</th>
<th>DAYLIGHT</th>
<th>HORIZON</th>
<th>FLUORESCENT</th>
<th>INCANDESCENT</th>
<th>UV</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPL III</td>
<td>Choose One</td>
<td>D50/D65/D75</td>
<td>•</td>
<td>Cool White plus TL84 or U30</td>
<td>•</td>
</tr>
<tr>
<td>Judge II-S</td>
<td>D50/D65/D75</td>
<td>D50/D65/D75</td>
<td>Cool White plus TL84 or U30</td>
<td>UV Light Alone</td>
<td></td>
</tr>
<tr>
<td>Examolite SD840B</td>
<td>D50/D65/D75</td>
<td>D50/D65/D75</td>
<td>Blended D75</td>
<td>•</td>
<td></td>
</tr>
<tr>
<td>Examolite TC440B</td>
<td>D50/D65/D75</td>
<td>D50/D65/D75</td>
<td>Blended D75</td>
<td>•</td>
<td></td>
</tr>
<tr>
<td>Prooflite</td>
<td>D50/D65/D75</td>
<td>D50/D65/D75</td>
<td>Blended D75</td>
<td>•</td>
<td></td>
</tr>
</tbody>
</table>

Chart Key

- **D50** = D5000K
- **D65** = D6500K
- **D75** = D7500K
- **CWF** = Cool White Fluorescent (4150K)
- **TL84** = TL84 (4100K) Narrow Band Fluorescent
- **U30** = U30 (3000K) Ultralume 30 Broad Band Fluorescent

Quick Guide to Light Sources

**Daylight**
- **D5000K** – Noon sky daylight for graphic arts applications.
- **D6500K** – Average north sky daylight for industrial color management, such as: automotive, consumer electronics, appliances, textile and apparel, home furnishings and others. Specified by industry.
- **D7500K** – North sky daylight for graphic arts presroom applications, sorting and grading textile white goods, and produce evaluations.

**Horizon**
- Commonly used in textile and automotive applications.

**Cool White Fluorescent/TL84/U30**
- Simulates office, in-store, or showroom floor lighting.

**Incandescent**
- Simulates home and store accent lighting.

**UV5X**
- Higher intensity (five times that of the sun) for detecting optical brighteners and fluorescent whitening agents in paper, textiles, and plastics.

**UV**
- The amount of UV found in natural daylight for simulating the effects of optical brighteners and fluorescent whitening agents on color.

*Note: Macbeth system lamps do not contain UV wavelengths.*