# Macbeth Lighting

Color Viewing Technology

Macbeth lighting solutions are recognized as the industry standard for visual color evaluation and specified by the world's leading brand owners for critical color decisions. These evenly balanced systems allow you to detect and correct color discrepancies before your customers do, eliminating the guesswork and streamlining the approval process to insure color harmony throughout a supply chain.

Macbeth Lighting

x-rite

Macbeth Lighting Advantages

- **Eliminate False Readings.** Unique daylight-based technology delivers the world's most accurate simulation of natural daylight, rendering color more accurately. Lighting is evenly balanced across the color spectrum, providing the most constant, 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

- **Conformance to International Standards.** Macbeth lighting products conform to or exceed all major international standards for visual evaluation of color

- **User Friendly.** Products and components are readily available and designed for easy access for servicing and lamp replacement

CIE D65

Macbeth D65 Fluorescent

SpectraLight D65

Commercial Daylight D65
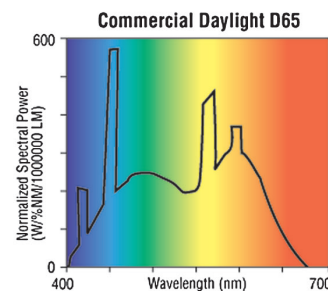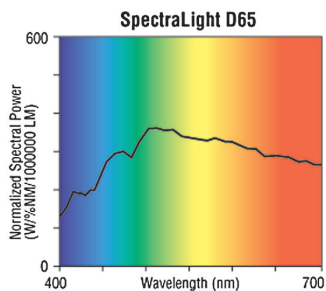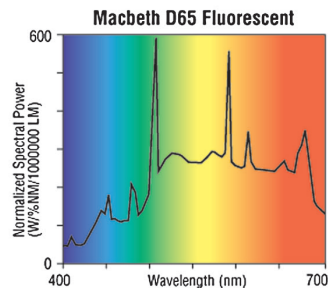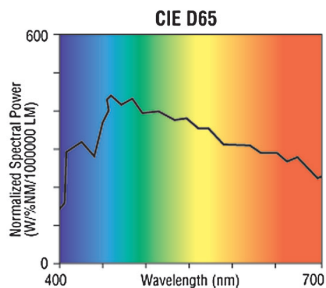
Lighting Systems At A Glance

Lighting Systems	BOOTH	LUMINAIRIES	DAYLIGHT	HORIZON	FLUORESCENT	INCANDESCENT	UV
Filtered Tungsten Halogen **SpectraLight QC**	•	•	*Choose One* D50/D65	•	*Choice of three of the following:* CWF, TL84, U30 or U35	•	UV Light Alone/ UV With Daylight
7 Phosphor Fluorescent **Judge II**	•		D50/D65/D75		Cool White plus TL84, U30 or U35	•	UV Light Alone
Examolite SD840B		•	D65		Cool White	•	

Chart Key

D50 = 5000K	CWF = Cool White Fluorescent (4150K)
D65 = 6500K	TL84 = TL84 Narrow Band Fluorescent (4100K)

Quick Guide to Light Sources

Daylight

5000K – Noon sky daylight for graphic arts applications.

6500K – Average north sky daylight for industrial color management, such as: automotive, consumer electronics, appliances, textile and apparel, home furnishings and others. Specified by industry.

Horizon

This source simulates early morning sunrise and late afternoon sunset. Commonly used in textile and automotive applications.

Cool White Fluorescent/TL84/U30/U35

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.

SpectraLight Lighting
The Unrivaled Standard For Accurate Color Evaluation

SpectraLight QC

Features
- Highest quality natural daylight available
- Adjustable lux with built in lux meter
- Automated closed-loop lux adjustment
- Faster fluorescent lamp stabilization
- Factory calibrated, adjustable UV
- Ability to create and store Brand Owner profiles
- Reporting and data tracking
- X-Rite Visual Color Assessment Institute
- User software
- Harmony room configurations available

Available in overhead luminaire
- Single or dual luminarie systems available
- Convenient remote control (tethered) available for easy programming of suspended luminaire

Specifications
- Booth Dimensions: 27.55″ (700 mm) H x 37″ (940 mm) W x 24.01″ (610 mm) D
- Weight: 22 lbs (10.0 kg)
- Shipping Weight: 35.2 lbs (16.0 kg)
- Luminaire Dimensions: 9.84″ (250 mm) H x 37″ (940 mm) W x 25.98″ (660 mm) D
- Weight: 89.3 lbs (40.5 kg))

Judge Light Booth
Convenient and Accurate color Decisions

JUDGE II
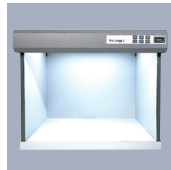
Features
- Seven-phosphor fluorescent daylight technology renders color more accurately
- Five different light sources provides the ability to detect matamerism.
- Ultraviolet source can be used by itself or in combination with any of the light sources for evaluating optical brighteners, whitening agents or fluorescent dyes and pigments
- Elapsed time meter for tracking optical lamp replacement
- Convenient size easily fits into a variety of workspaces, including offices, desgin studios and production areas
- Meets or exceeds major international standards for visual color evaluation, including: ASTM D1729, ISO3664, DIN, ANSI and BSI

Specifications
- Booth Dimensions: 21.85″ (55.5 cm) H x 26.5″ (67.3 cm) W x 20.5″ (52.1 cm) D
- Weight: 50 lbs. (22.7 kg)

Luminaires
Convenient overhead light sources for daylight viewing

EXAMOLITE

Features
- ***Multi-source*** overhead luminaire
- 7 phosphor fluorescent daylight technologies renders color more accurately
- Prismatic diffusing glass and anodized aluminum reflector for brightness and even illumination
- Optional UV-stabilized acrylic diffuser for food safety requirements and reduced glare in diamond grading
- Suspend or insert into standard ceiling grid

Specifications
- Dimensions:
  8″ (121.19 cm) H x 23.75″ (60.3 cm) W x 48″ (20.3 cm) L
- Weight: 90 lbs (40.8 kg)

SPLQC

SPLQC Luminaire

Judge II

Luminaires

X-Rite: Your source for accurate color. On time. Every time.

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.

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