



JUST Visual Color Control.

Standardized light for precise evaluation of colors for surfaces and materials



INT



Metameric colors which appear identical under one light source and suddenly show stark contrasts when exposed to a different viewing angle or light source in fact have a different spectral configuration. According to the currently valid processes for visual color evaluation, the color samples

must look identical when viewed under a D65 light source and can show certain discrepancies under other light sources showing visible metamerisms. The JUST standardized lights give the viewer the chance to promptly recognize metamerism quickly with the Color Viewing Light.



Color Viewing Light

with 3 to 5 light sources

Color Viewing Light

Item No. 737
Type PJC / CVL 3



Outside dimensions:
W 68 cm, H 46 cm, D 42 cm
Usable space:
W 65 cm, H 38 cm, D 36 cm
With 3 different light colors.

Item No. 1719
Replacement bulb set



Color Viewing Light

Item No. 521
Type PJC / CVL 5 E



Outside dimensions:
W 68 cm,
H 51 cm, D 42 cm
Usable space:
W 65 cm,
H 38 cm, D 36 cm
With 5 different
light colors and
Electronic Panel.

Item No. 1198
Replacement
bulb set

Symbol	Source	Color Temp. Kelvin	Color Rendering RA	Watt	Application area
1	D65	6500	98	2 x 18	North sky daylight, conforms to all important international regulations for visual color matching (CIE D 65).
2	D 50	5000	98	2 x 18	Daylight for color matching in the graphic arts industry. For reproductions and color proofs (CIE D50, ANSI PH 2.30, ISO 3664).
	TL 84	4100	85	2 x 18	Typical lighting for stores, offices, supermarkets and exhibition halls.
	A	2700	100	2 x 60	Typical incandescent for homes, offices or hotels.
UV	UV	-	-	1 x 8	Required for textile or paper industries, stimulates optical brightness, whitening agents, fluorescent pigments.

The JUST ELECTRONIC CONTROL PANEL

Offers both manual and programmable selection of light sources and an automatic mode which is important to maintain consistency when viewing different colors by providing a constant test criteria. Permanent monitoring of the lifespan for all tubes ensures a consistent test environment by avoiding the use of tubes that are no longer the correct light color. The digital display, along with LEDs that change colors serve as a reminder to change the tubes at the appropriate times.

Highlights

- up to five different light sources
- standardized light for constant color-testing conditions
- recognize metamerism
- automatic monitoring of tube life span



Color Viewing Light

with 4 to 5 light sources

To be able to reliably evaluate the colors of surfaces and materials, natural daylight is insufficient. In the course of the day, and the year, the spectral properties are constantly changing (and with that, the respective visual impression). In the course of manufacturing colored products, the visual color evaluation is indispensable when it comes to the selection and visual inspection of colors and materials. It is only after the visual determination of colors that color measurements can take place and tolerances can be defined.



Color Viewing Light

Item No. 84376
Type CCP/CVL 4



Outside dimensions:

W 68 cm,
H 46 cm, D 42 cm

Usable space:

W 65 cm,
H 38 cm, D 36 cm
With 4 different
light colors.

Item No. 89276
Replacement bulb set

Color Viewing Light

Item No. 745
Type CCP/CVL 5



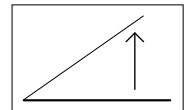
Outside dimensions:

W 68 cm,
H 51 cm, D 42 cm

Usable space:

W 65 cm,
H 38 cm, D 36 cm
With 5 different
light colors.

Item No. 1198
Replacement bulb set



optional 45° tilt
Item No. 61598

The **JUST Electronic Control Panel** with five different standardized light sources creates a consistent test environment for visual color coordination. The light sources can be selected manually or programmed for repeated test processes. The permanent monitoring of all standardized light tubes promptly announces when changing the tubes is required to maintain consistent testing conditions without color changes in the light due to age and use.



Color Viewing Light

with 5 light sources



Color Viewing Light

Item No. 86108

Type CCP/CVL 0B



Outside dimensions:

W 79 cm, H 59 cm, D 51 cm

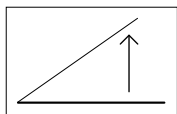
Usable space:

W 74 cm, H 40 cm, D 50 cm

With 5 different light colors and Electronic Panel.

Item No. 1198

Replacement bulb set



Item No. 61598

Color Viewing Light

Item No. 737-3

Type CCP/CVL 3 - 3T



Outside dimensions:

W 68 cm, H 46 cm, D 42 cm

Usable space:

W 3 x 20,5 cm, H 38 cm,
D 36 cm

With three standardized light sources (each in its separate light field).

Item No. 1719

Replacement bulb set

Demo Model:
three light sources next to each other aid in visualizing the differences between the initial color impression and the actual metameric properties.



Color Viewing Light XL

The JUST large format color matching boxes are ideal for inspecting colors in the metal – and plastics – processing industries. The two standard sizes shown here are readily available. Special sizes are available upon request.

Electronic Control Panel

- 5 standardized light sources
- manual light selection or automatic mode for consistent testing processes



Color Viewing Light XL

with 5 light sources



Color Viewing Light XL

Item No. 5793
Type CCP/CVL 5-120



Outside dimensions:
W 128 cm, H 148 cm,
D 42 cm
Usable space:
W 114 cm, H 38 cm,
D 36 cm
With 5 different light colors
and Electronic Panel.

Item No. 1792
Replacement bulb set

Item No. 89268
Bottom platform

Color Viewing Light XL

Item No. 3426
Type CCP/CVL 3B

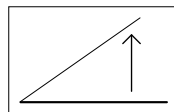


Outside dimensions:
W 128 cm, H 110 cm,
D 100 cm
Usable space:
W 114 cm, H 100 cm,
D 85 cm

With 5 different light colors
and Electronic Panel.

Item No. 1701
Replacement bulb set

Optional:
Lower cabinet Item No. 13508
Bottom platform
Item No. 28647
Tilt Item No. 83824



The standard **multiLight color-testing lights** are equipped with the standardized D65 light source along with one or two additional light sources of your choice (D50, TL84, CWF, A, Warmwhite or Ultralume 30). The specially developed prismatic acrylic glass guarantees even light distribution and exact luminance levels. JUST multiLights have a high color rendering value (Ra 8=98/Ra 215 = 95.6) and the strictest light-color tolerances of +/- 200K.

A **walk-in color-matching-box** enables color testing of products with particularly large dimensions. These boxes can be individually custom-made at JUST Normlicht.



multiLight

switchable color-testing lamps
with 2 or 3 light sources



- even light distribution
- perfect reflection capability
- glare-free
- a high color rendering value
Ra8=98/Ra215=95.6
- the strictest light-color tolerances
(+/- 200 K)

Item No.	Type	Number of light-colors*	Outside dimensions W x D x H cm	Lighted area D x W cm	Watt
Color Control Professional with EVG and digital hour meter					
23234/6500	CCP/FU 3-SY- 8/36	2	128 x 80 x 16	70 x 100	8 x 36
23242/6500	CCP/FU 4-SY- 8/58	2	158 x 80 x 16	70 x 130	8 x 58
23267/6500	CCP/FU 6-SY- 8/58	2	158 x 100 x 16	100 x 140	8 x 58
2600/6500	CCP/FU 8-SY-12/36	3	124 x 100 x 16	100 x 110	12 x 36
2626/6500	CCP/FU 8-SY-18/36	3	124 x 150 x 16	110 x 140	18 x 36
2634/6500	CCP/FU 8-SY-24/36	3	124 x 195 x 16	110 x 190	24 x 36

*with D65, plus one or two additional light sources of your choice (D50, TL84, CWF, A, Warmwhite or Ultralume 30).

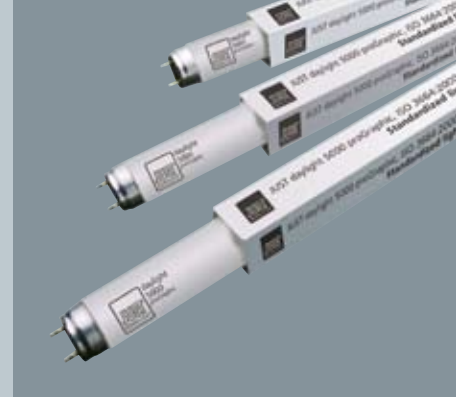


As time passes, the color temperature of fluorescent tubes changes. The digital hour meter displays the exact number of hours used and promptly notifies the user when it is required to change the tubes after 2,500 hours of use.

moduLight color-testing lamps with a single light source create standardized lighting conditions that comply with the criteria of ISO specifications. The modular construction design enables a flexibility to create any level of illumination.

Changing tubes regularly

The color temperature of fluorescent tubes changes after 2,500 hours of operation. For consistent standardized light conditions JUST requires that tubes be changed promptly.



moduLight

Color-testing lamps with a single standardized light source

- This newly developed prismatic, optical diffusion screen allows for incomparable luminance level and evenness of light distribution. Reflection, gloss and glare are non-existent
- TLSI Technology – integrated LED field with easy to understand signal technology. Automatic warning for relamping after 2500 hours of light bulb use
- Suspension from ceiling with an innovative, height adjustable steel cable system



Optional: Digital dimmer allows for infinite brightness level adjustments and a USB interface for the exact adjustment to match the brightness of a computer monitor via calibration software.

Item No.	Type	Outside Dimension W x D x H cm	Illumin. Area D x W cm	Lux at distance between lamp and surface
moduLight – asymmetrical				
83709	2/18-AS	88 x 31 x 8,5	50 x 50	1300 lx / 80 cm
83691	2/36-AS	133,5 x 31 x 8,5	50 x 100	1600 lx / 90 cm
80093	2/58-AS	163,5 x 31 x 8,5	50 x 140	1650 lx / 85 cm
83683	4/18-AS	88 x 62 x 8,5	50 x 70	2000 lx / 90 cm
83675	5/36-AS	133,5 x 77,5 x 8,5	70 x 100	2000 lx/125 cm
89565	6/36-AS	133,5 x 93 x 8,5	70 x 140	2000 lx/145 cm
89573	6/58-AS	163,5 x 93 x 8,5	100 x 140	2900 lx /130 cm
89581	24/36-AS	267 x 186 x 8,5	150 x 220	2250 lx /240 cm

moduLight – cross-symmetrical

83758	2/18-AS-S	88 x 31 x 8,5	50 x 50	1300 lx / 80 cm
55681	2/36-AS-S	133,5 x 31 x 8,5	50 x 100	1500 lx / 90 cm
80127	2/58-AS-S	163,5 x 31 x 8,5	50 x 140	1650 lx / 80 cm
83741	4/18-AS-S	88 x 62 x 8,5	50 x 70	2000 lx / 90 cm
55699	4/36-AS-S	133,5 x 62 x 8,5	60 x 100	2000 lx /100 cm
80119	4/58-AS-S	163,5 x 62 x 8,5	80 x 140	2000 lx /110 cm



moduLight asymmetrical



moduLight cross-symmetrical





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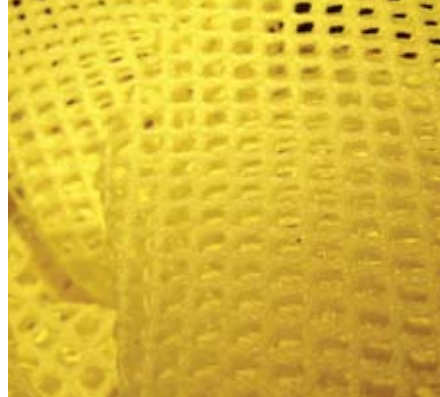
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Patents pending.



JUST setting standards.

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