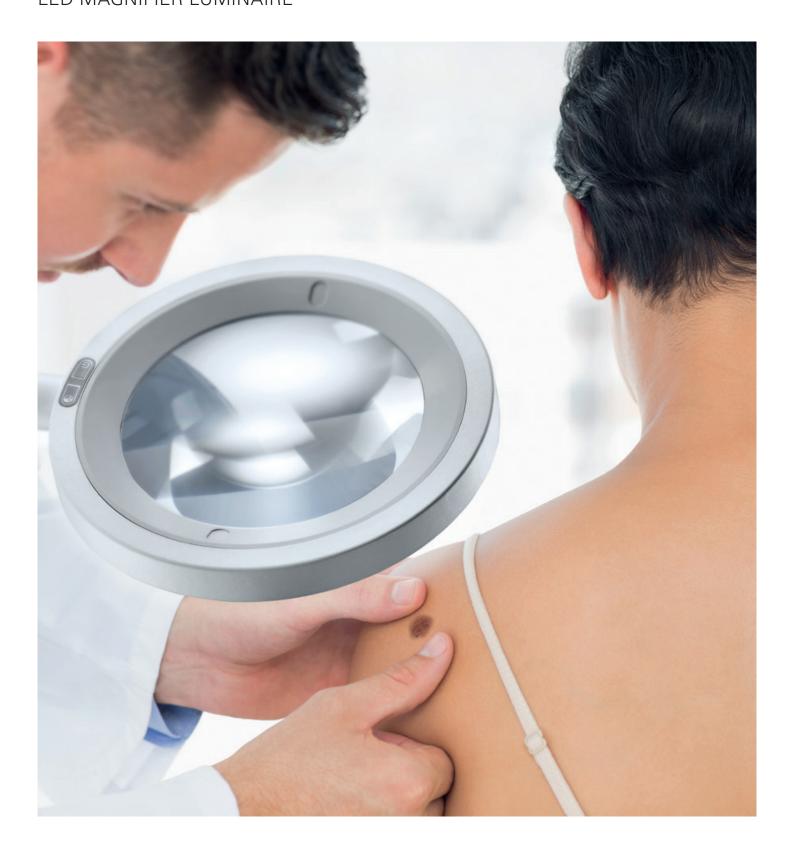
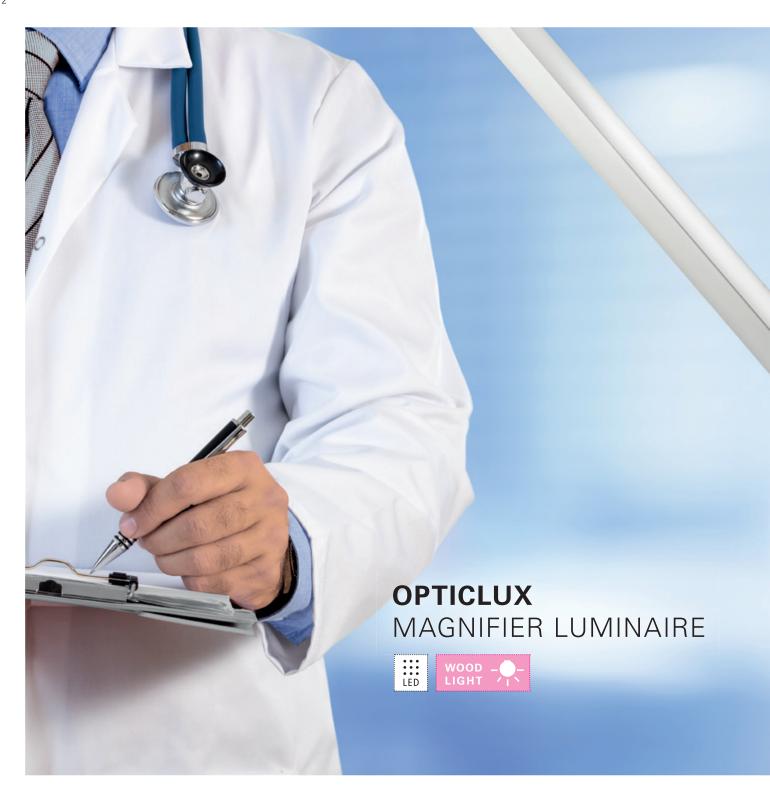




# **OPTICLUX**LED MAGNIFIER LUMINAIRE







# **Ergonomic handling** Spring balanced arm and friction joints allow

smooth handling without the luminaire head sinking



# Long service life

Premium acrylic lens and precision components ensure strong durability



# Flexible positioning

Long luminaire arm allows a broad reach up to 142 cm radius

# Your working comfort is our mission.

OPTICLUX has everything a modern magnifier luminaire is meant to have: a robust magnifier with 1.9x magnification, the latest LED modules, ergonomically tested arm joints and intuitive operation. OPTICLUX's biggest plus is its daylight-quality light field, its outstanding color rendering properties and its maintenance-free life cycle. As an approved medical device, it can be versatilely used in dermatology, human medicine, dentistry and veterinary medicine, in laboratories and for monitoring sterilized products.

Laboratories, medical practices, clinics, etc.

**APPROVED** MEDICAL DEVICE

compliant with

EN 60601-1





# **Excellent light field**

Due to large magnifier diameter (Ø 160 mm, 3.5 dpt) and strong, dimmable illumination (6 000 lx / 0.15 m)



# Reliable color rendering

Very good scratch-resistant 6 500 K LEDs ensure less shadow formation and optimal color rendering (CRI / Ra > 93, R9 > 90, R13 > 95)



# Special for dermatology \*

Two lighting modes in one device: optional Wood light for examining fluorescent lesions and pigment changes

<sup>\*</sup>Depending on version



# OPTICLUX - Seeing far beyond the average.

Magnifier luminaires are a dime a dozen. But very few are tested medical devices according to EN 60601-1. With its unique light quality and sophisticated design, OPTICLUX is ideal for use in various fields of medicine.

### **OPTICLUX**

## Eases the eyes

90 LEDs ensure homogeneous, low-shadow illumination; individual adjustment with step-free dimming, high translucence due to special lens material

#### Precise positioning

Light arm made of aluminum and a fiberglass-reinforced friction joints ensure long life and highly accurate positioning despite low weight

#### More economical, reliable use

High-efficiency LED light technology saves energy and allows maintenance-free operation.

# Simple, versatile mounting options

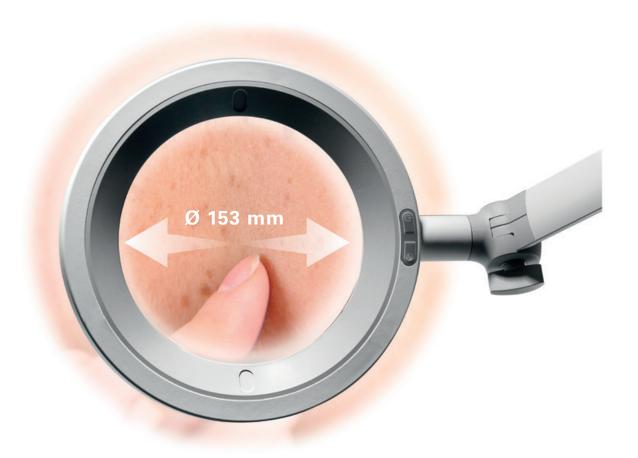
The only magnifier luminaire in its segment that is available as a ceiling version and a pin version with fastening accessories for walls, tables, rails and roller stands

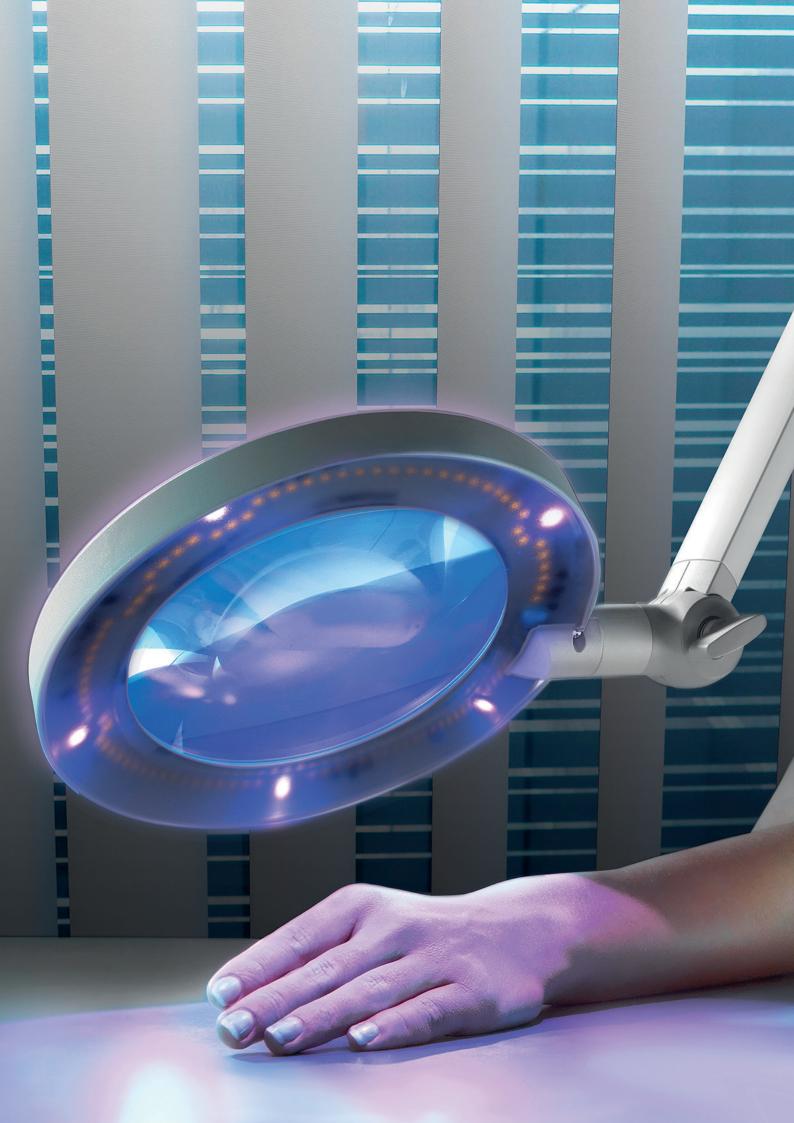
#### Easy cleaning

Lens cover, keypad and premium housing for fast cleaning

# Very good color rendering

Especially skin and red tones are reproduced close to optimal daylight; color rendering Opticlux CRI / Ra > 93, R9 > 90, R13 > 95







# **OPTICLUX** with Wood light.

The special model variant for dermatologists, veterinarians and forensic medicine combines two lighting modes in one device: daylight white illumination and Wood light. This means that different examinations can be performed with just one light. Other Wood luminaires require the room to be completely darkened. Thanks to powerful BLB LEDs, the Opticlux doesn't need this. That means more time for the patient.

For radiation of certain dermatomycoses to obtain diagnostic indications based on the fluorescence that occurs:

- ERYTHRASMA (red fluorescence)
- MICROSPORIA (weak green fluorescence)
- FAVUS (bilious green fluorescence)
- TRICHOBACTERIOSIS AXILLARIS (yellow ochre colored fluorescence)
- PITYRIASYS VERSICOLOR (yellow ochre colored fluorescence)
- TUBEROUS SCHLEROSIS (blue-white fluorescence versus normal skin)
- VITILIGO (blue-white fluorescence of depigmented areas)
- SCABIES (gray-white mite tracks)

Also for fluorescence diagnostics (FD) for in-vivo diagnostics of dysplastic tissues and surface tumors in connection with local or systemically applied pigment, such as PPIX or 5-ALA.



Skin under daylight-simulating

Accurate diagnosis: Skin changes appear differently under Wood light, such as favus, types of intertrigo or erythrasma

# ONE MAGNIFIER LUMINAIRE.

# MANY APPLICATIONS.



# **Dermatologists**

Optimal examination conditions:

- Large magnifier diameter
- Ergonomic handling
- Very good color rendering R13 > 95

The Wood light version is recommended for optimal diagnosis of skin diseases.



# Hospitals, outpatient clinics and practices

#### Other uses:

- Ideal magnification for inspecting sterilized goods
- Approved medical device for examinations
- Minor treatments
- Outstanding light quality
- Color rendering properties



### Veterinarians

#### Free hand:

- Flexible mounting on ceiling, wall or roller stand
- Large light field
- Optimal magnification for examination and treatment of various animals

The Wood light version is recommended for optimal diagnosis of skin diseases.





ceiling version

connection to a rail





# **Dental technicians**

Outstanding lighting properties:

- Step-free dimming
- 3.5-dpt magnification
- Excellent color authenticity
  CRI /Ra > 93 for the best results
  and fatigue-free work



### Laboratories

Details at a glance:

- Daylight-white LED light with 1.9x magnification
- Very homogeneous light field
- Precise, stable positioning with no risk of the luminaire sinking



# **Quality control**

Detect subtleties:

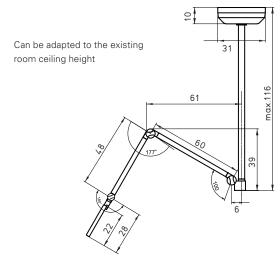
- Very bright, dimmable light with optimal color rendering
- Large magnifier diameter
- Distortion-free magnification supports systematic quality control







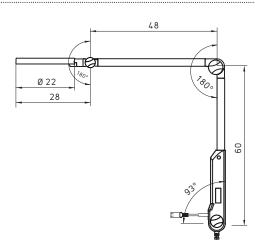




# Ceiling version

OPTICLUX - CEILING VERSION			Feature	Order No.
OPTICLUX 10-1 C T1	pure white / gray	direct power supply	_	D15.817.000
OPTICLUX 10-2 C T1	pure white / gray	direct power supply	Wood light	D15.816.000
			-	





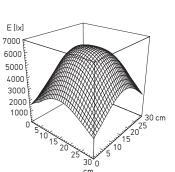
Pin version for various fastening systems

OPTICLUX - PIN VERSION			Feature	Order No.
OPTICLUX 10-1 P TX	pure white / gray	Euro	-	D15.815.000
OPTICLUX 10-1 P TX	pure white / gray	UK	-	D15.850.000
OPTICLUX 10-2 P TX	pure white / gray	Euro	Wood light	D15.814.000
OPTICLUX 10-2 P TX	pure white / gray	UK	Wood light	D15.851.000

# **OPTICLUX** compact

- Color temperature daylight white 6 500 K \*
- Scratch-resistant acrylic lens with 3.5 diopters
- Color rendering properties \* CRI > 93, R9 > 90, R13 > 95
- Bright, homogeneous light field (6000 lx / 0.15 m  $^{*}$ )
- Continuously dimmable
- Universal fastening
- Durable premium casing
- Optional Wood light: Peak at 365 nm

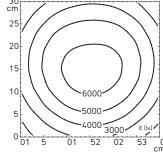
See next page for full specifications





Illumination intensity

\* -10%/+20% tolerance



# Part No. ML16x

# OpticLux Magnifier Luminaire



LED - Energy efficiency category A+

CRI >93, R9 >90, R13 >95

6,000lux @ 15cm

6500K

Ø160mm





Fitted with

**Colour Rendering Properties** 

**Light output** 

Colour temperature Lens; dimensions Lens; diopters

3.5 (1.9x magnification) Electronic converter Work equipment 100-240VAC, 50/60Hz Connected load

Mains lead 1.8m AU lead Direct power supply

Luminaire body Polyamide (PA) 1100mm Arm length **Balance of articulation joints** Spring

Weight (net) 2kg (wall mount)

9.1kg (ceiling mount/stand)

Power consumption

Usage

Keypad at luminaire head

Class of protection

Accessory Adapter for ceiling suspension EN 60601-1, EN 60601-2-41 **Norms Special features** Scratch-proof plastic lens, continuously dimmable,

switchable Woods Lamp, rotary feedthrough (360° turnover axis)

**Optional Woods Lamp** 

**Fastening** 

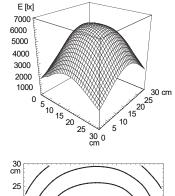
365nm long wavelength UV-A Wall mount, rail, roller stand, table & ceiling mount (ceiling tube can be cut

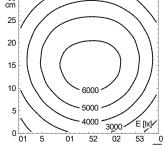
to length 40-116cm)

System of protection

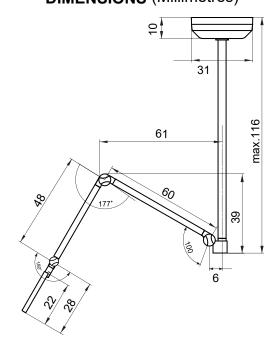
IP20

# LIGHT DISTRIBUTION





# **DIMENSIONS** (Millimetres)



Data may vary due to component tolerances. E & OE

ML165-S

ML167-S (UV)



### What do the CRI/Ra values mean?

The Color Rendering Index (CRI, Ra) is an index for the naturalness of color. How well are the colors reproduced in comparison to sunlight?



CRI / Ra = 100

- sunlight has a color rendering index of 100.
- At Ra 100, all of an object's colors are recognized as in optimal
- The higher the color rendering index, the more naturally the colors are reproduced.

CRI 100 =

Full representation of the color spectrum

### What do the color rendering properties mean?

In medicine, the red test color R9 plays a crucial role, because differentiation of various red tones in tissues and blood is especially important.

R13 is the "skin tone" test color and is generally very important in skin treatments (for better recognition of veins and blood vessels), especially in medical practice and cosmetics.

### Test color R9





positive



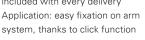
positive

# **ACCESSORIES**

CRI / Ra > 93



Custom-lit lens cover
included with every delivery
Application: easy fixation on arr







ROLLER STAND RL	
Material	Steel
Composition	<ul> <li>Tube: white</li> <li>Base: plastic</li> <li>Casters: plastic double casters, with 5 brakes</li> </ul>
Dimensions	1.0 m; Ø 700 mm
Weight (net)	7.5 kg
for pin Ø	16 mm-W with removal guard and cable suspension device
Order number	D15.595.000

EXTENSION ARM	
Material	Powder-coated steel / steel pipe
Dimensions	400 m, Ø 16 mm
Weight (net)	approx. 0.65 kg
for pin $\varnothing$	16 mm with removal protection
Capacity	2.5 kg
Order number	<b>D13.363.000</b> - pure white



RAIL MOUNTING	
Material	Aluminum
Wall rail system	25-35 x 8-10 mm
Order number	D13.269.000



Order number	<b>D14.228.000</b> - black	
Material	Polyamide steel	
TABLE CLAMP		



WALL BRACKET		
Material	Polyamide GF	
Order number	<b>D13.231.000</b> - pure white	

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