

The proper lightning solution for your applications

Proper illumination and working conditions are vital throughout patient care. You can choose the right lightning solution for the different applications such as examination or reading at the patient's bedside.



DESIGNED TO MEET YOUR NEEDS

Dräger's solutions provide ideally suited lightning for examinations, wound management and for different specific applications, e.g. the positioning of syringes and IV lines. All three solutions fit standard rail systems and are easy to mount.

Our selection of halogen lamps allows you to choose precisely the right solution for your specific application.

Dräger lightning solutions provide comfortable reading light at the patient's bedside. They are designed to meet the needs of specific applications in hospitals as well as physician's practices.

Dräger NCL lamps are equipped with the tested natural color light (NCL) filter and a heat protection filter. With their natural daylight quality they are therefore suitable for detailed skin-tone assessment required for dermatological exams.

The integrated two lightning levels system provides the possibility to switch between a glare free reading light and an intensive examination light, without changing the lamp. You save time, space and money.



NCL Examination Light



Reading Light



NCL Lamp

TECHNICAL DATA



MT-6320-2006



MT-6319-2006



MT-6321-2006

	NCL Examination Lamp	HX 35 TM Examination Lamp	Reading Lamp
Oder number	2M85657	MP00435	2M86199
Customer´s benefits	<p>NCL filter for optimal lightning and color rendering</p> <p>Two-step switch to adjust the amount of light</p> <p>Step I: reading light</p> <p>Step II: diagnosis light</p> <p>Minimal heat emissions through a heat protection filter and double wall cabinet</p> <p>High ease of use through space-saving and compact design</p> <p>Integrated electronic safety transformer with line and thermal fuse</p> <p>Spring-balanced hinges combined with a 2D head hinge make illumination easy and reliable</p> <p>Sanitizable surfaces due to closed cabinet</p>	<p>NCL filter for optimal lightning and color rendering</p> <p>Two-step switch to adjust the amount of light</p> <p>Step I: reading light</p> <p>Step II: diagnosis light</p> <p>Minimal heat emissions through a heat protection filter and double wall cabinet</p> <p>High ease of use through space-saving and compact design</p> <p>Integrated electronic safety transformer with line and thermal fuse</p> <p>Spring-balanced hinges combined with a 2D head hinge make illumination easy and reliable</p> <p>Sanitizable surfaces due to closed cabin</p>	<p>Glare free reading light</p> <p>Light intensity also suitable for specific applications</p> <p>High ease of use through space-saving and compact design</p> <p>Integrated electronic safety transformer with line and thermal fuse</p> <p>Spring-balanced hinges combined with a 2D head hinge make illumination easy and reliable</p> <p>Sanitizable surfaces due to closed cabinet</p>
Max illumination at a distance of 0.5 m	<p>Step I: 11,000 lux ± 10%</p> <p>Step II: 20,000 lux ± 10%</p>	<p>Step I: 5,000 lux ± 10%</p> <p>Step II: 13,000 lux ± 10%</p>	6,000 lux ± 10%
Color temperature (Kelvin)	4,100 K ± 5%	4,100 K ± 5%	4,000 K ± 5%
Color rendering index	RA 92, class 1A	RA 92, class 1A	RA 80, class 1B
Type	Philips Brilliant Line Pro Halogen Lamp 12V/35W/24° MP00681	Philips Brilliant Line Pro Halogen Lamp 12V/35W/24° MP00681	Philips compact reading lamp PL-S 11 W/840/4P
Plug	DIN Standard	British Standard	DIN Standard
Weight	Approx. 1.3 kg	Approx. 1.3 kg	Approx. 1.3 kg
Protection Class	II	II	II
Power cord	3 m	1.4 m	3 m
Rail clamp	10 x 25 mm bis 8 x 35 mm	10 x 25 mm bis 8 x 35 mm	10 x 25 mm bis 8 x 35 mm
Measurement	400 and 420 mm	400 and 420 mm	450 and 510 mm

THE MAJOR FACTORS IN GOOD LIGHTING

Illumination

Illumination, i.e., the amount of light cast on a surface in lux, is the most important measure in lighting technology. Illumination has a major influence on how quickly, surely and easily the eyes are able to master a visual task.

Illumination depends not only on the amount of light the light produces, but also significantly on the distance between the light source and the illuminated object.

At the same illumination, a white room appears brighter than a dark one. It reflects the light better. Therefore, the lower the degree of reflection and the more difficult the visual task, the higher the illumination needs to be.

Color rendering index

The Ra color rendering index is used to describe the color rendering properties of light sources. This index identifies how faithful the colors under a given light source appear when compared to the color rendering in natural daylight. The highest value is 100. The more the Ra color rendering index deviates from 100, the poorer the colors of the reflected objects are. Good color rendering properties enable our eye to see all the colors that are actually present.

Lighting with the highest color rendering level of 1A is needed for skin examinations, medical procedures and surgeries, applications that are the most color-critical. These lights provide less light in general and are somewhat more expensive than the fluorescent lamps of level 1B (lamps with good color rendering for interior room lighting).

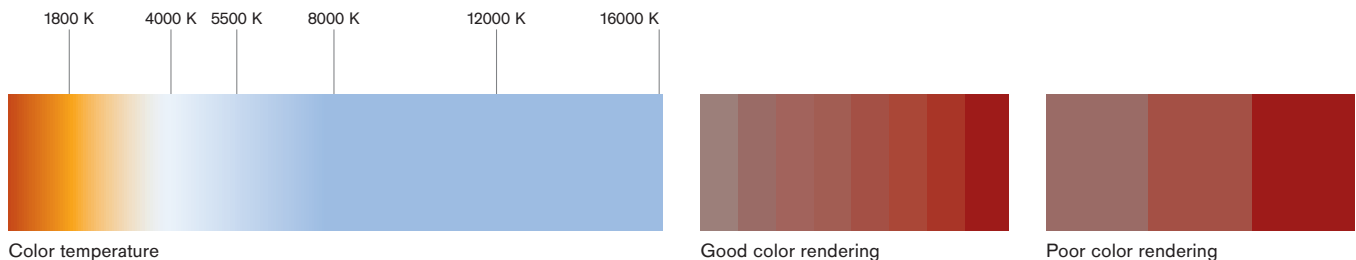
Color temperature

Color temperature is a simplified representation of the color composition of light and is measured in units of Kelvin (K). The color of the light is defined by the relative percentage of the different wavelengths of the light spectrum.

The lower the color temperature, the more the light tends toward yellow and red. Higher color temperatures make the light bluer. Optimal daylight has a color temperature of 5,000 K.

Some typical color temperature values are:

- 1500 K Candlelight
- 3000 K 200 W Bulb
- 5500 K High noon
- 7000 K Cloudy day



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