Data sheet

Wall model

Mobile model

Rail model

Technical data

Type of device	Examination light
Class (according to MDR)	I
Protection class/-type	I
IP protection class (IEC 60529)	IP 42
Temperature (for transport and storage) [1]	-25 °C to +70 °C
Ambient temperature for operation	+10 °C to +30 °C
Relative humidity (for transport and storage) [1]	5 % RH to 95 % RH
Relative humidity for operation	30 % to 75 % RH
Air pressure (for transport and storage) [1]	700 hPa to 1060 hPa
Air pressure for operation	700 hPa to 1060 hPa
Input voltage	24 V DC
Power consumption	10 W
Current consumption	0,42 A max.
Operating time	Continuous operation possible
Weight of light body incl. accessories	max. 6.0 kg (on five feet stand)
Expected life [2]	10 years

[1] Transport and storage conditions for lamp body and power supply unit.

[2] At the end of the expected (designed) service life, the lamp must be serviced more frequently for safe operation.

Lighting technical data

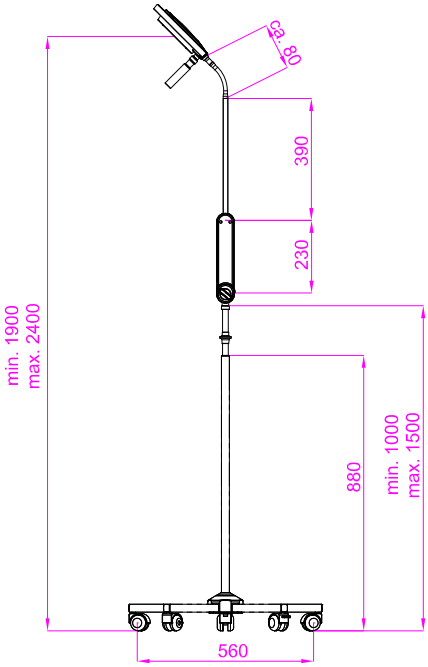
	Mach LED 115	Mach LED 115C
Central light intensity (Distance 0.5 m)	60.000 Lux	60.000 Lux
Central light intensity (Distance 1 m)	14.000 Lux	14.000 Lux
Light field diameter d10 (Distance 0.5 m)	111 mm	108 mm
Light field diameter d1 (Distance 1 m)	242 mm	223 mm
Light field diameter d50 (Distance 0.5 m)	60 mm	60 mm
Light field diameter d50 (Distance 1 m)	133 mm	115 mm
Residual light intensity with one shade	0 %	0 %
Residual light intensity with two shades	64 %	60 %
Residual light intensity on the ground of a normed tube	100 %	100 %
Residual light intensity on the ground of a normed tube with one mask	0 %	0 %
Residual light intensity on the ground of a normed tube with two masks	64 %	60 %
Illumination depth 60 %	1221 mm	1230 mm
Colour rendering index R_a (type)	97	97
Colour rendering index R_9 (type)	95	99
Colour rendering index R_{13} (type)	98	98
Radiation strength in the field (Distance 1 m)	47 W/m^2	56 W/m^2
Maximum radiation strength (Distance 0.38 m)	-	255 W/m²
Maximum radiation strength (Distance 0.29 m)	225 W/m²	-
Relation E_e /E_c	3,6 mW/(m²*lx)	3,9 mW/(m²*lx)
Light field size	11 cm (Fixfokus)	11 cm (Fixfokus)
Colour temperature (Kelvin)	4000 K	3700, 4000, 4300 K
Temperature increase in the head area	0,5 °C	0,5 °C
Luminous efficacy (efficiency) (Distance 1 m)		255 lm/W
Luminous efficacy (efficiency) (Distance 1 m)	278 lm/W	
Number of LEDs	7	7
Working distance	25 - 100 cm	25 - 100 cm
Dimming range (%)	50 - 100	50 - 100
Dimming levels	5	5
Diameter of light body	22 cm	22 cm
Life-span of LEDs	60.000 h	60.000 h

All technical data are subject to certain fluctuations. For production reasons, the actual values have a tolerance of ± 10%.

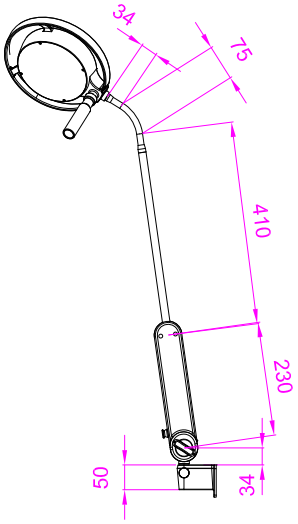
The values for the colour temperature can have deviations of ± 200 K.

Technical drawings

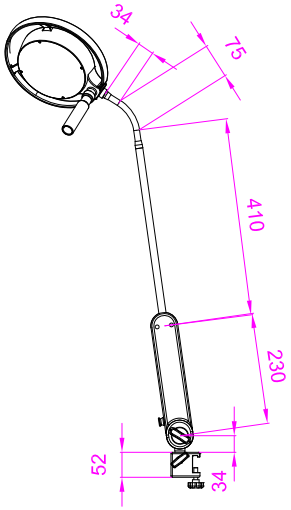
Stand model



Wall model



Rail fixation



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Subject to technical modification