

MACH LED 300 ceiling mounted

Data sheet no. 59000645 / V2



FEATURES

- User-friendly keypad
- ON/OFF switch
- Electronic focussing (SC)
- Light intensity control
- Colour temperature adjustment (MC)
- Endo-mode with 5 % light intensity

FEATURES (optional)

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|--|-----------|
| Wireless remote control | Surcharge |
| Spot light (improved depth light, only SC) | Surcharge |
| Wireless camera (integrated - not removable) | Surcharge |

Technical lighting data

	Mach LED 300DF SC	Mach LED 300DF SC Spot	Mach LED 300MC
Central light intensity at a distance of 1 meter *	160.000 Lux	160.000 Lux	160.000 Lux
Light field diameter d ₁₀	174 mm	173 mm	184 mm
Light field diameter d ₅₀	89 mm	89 mm	104 mm
Light intensity with one shadower	42 %	34 %	44 %
Light intensity with two shadowers	42 %	53 %	44 %
Light intensity on the ground of a normed tube	100 %	100 %	100 %
Light intensity on the ground of a normed tube with one shadower	42 %	34 %	44 %
Light intensity on the ground of a normed tube with two shadowers	42 %	53 %	44 %

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Illumination depth 20%	883 mm	1560 mm	915 mm
Illumination depth 60%	449 mm	634 mm	510 mm
Colour rendering index R _a (typ.)	95	95	97
Colour rendering index R ₉ (typ.)	92	92	97
Radiation intensity in the field at a distance of 1 meter	559 W/m ²	585 W/m ²	574 W/m ²
Max. radiation intensity in the field at a distance of 0,9 meters	611 W/m ²	-	647 W/m ²
Max. radiation intensity in the field at a distance of 0,88 meters	-	616 W/m ²	-
Focusable light field size	17 - 27 cm	17 - 25 cm	18 - 30 cm
Colour temperature [Kelvin]	4500 K	4500 K	3750, 4000, 4250, 4500, 4750 K
Temperature increase in head area	0.5 °C	0.5 °C	0.5 °C
Luminous efficacy	286 lm/W	274 lm/W	279 lm/W
Number of LEDs	36	37	36
Lifespan of LEDs	60.000 h	60.000 h	60.000 h
Working distance	70 - 140 cm	70 - 140 cm	70 - 140 cm
Dimming range	100 - 28 %	100 - 28 %	100 - 28 %
Height adjustment	118 cm	118 cm	118 cm
Light head diameter	55 cm	55 cm	55 cm

Remark:

The technical data are subject to fluctuations. Due to manufacturing reasons, the real values can have a tolerance of $\pm 5\%$.
The values for the colour temperature can differ by ± 200 K.

* In accordance with IEC 60601-2-41 the max. illuminance must not exceed 160.000 lx.

The measurement tolerance is therefore only -5 %

Electrical data

	Mach LED 300DF SC	Mach LED 300DF SC Spot	Mach LED 300MC
Power consumption	37 W	32 W	37 W
Operating voltage	24 V - 30 V DC	24 V - 30 V DC	24 V - 30 V DC
Current	1.6 A max.	1.3 A max.	1.6 A max.

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Electrical Protection class	I.
Medical device classification (according to 93/42/EEC Annex IX)	I.
Protection type of the lamp head as per IEC 60529	IP 42
Protection type of the suspension arms as per IEC 60529	IP 20
Protection and approval in accordance with EU directive 93/42/ EEC Annex IX	

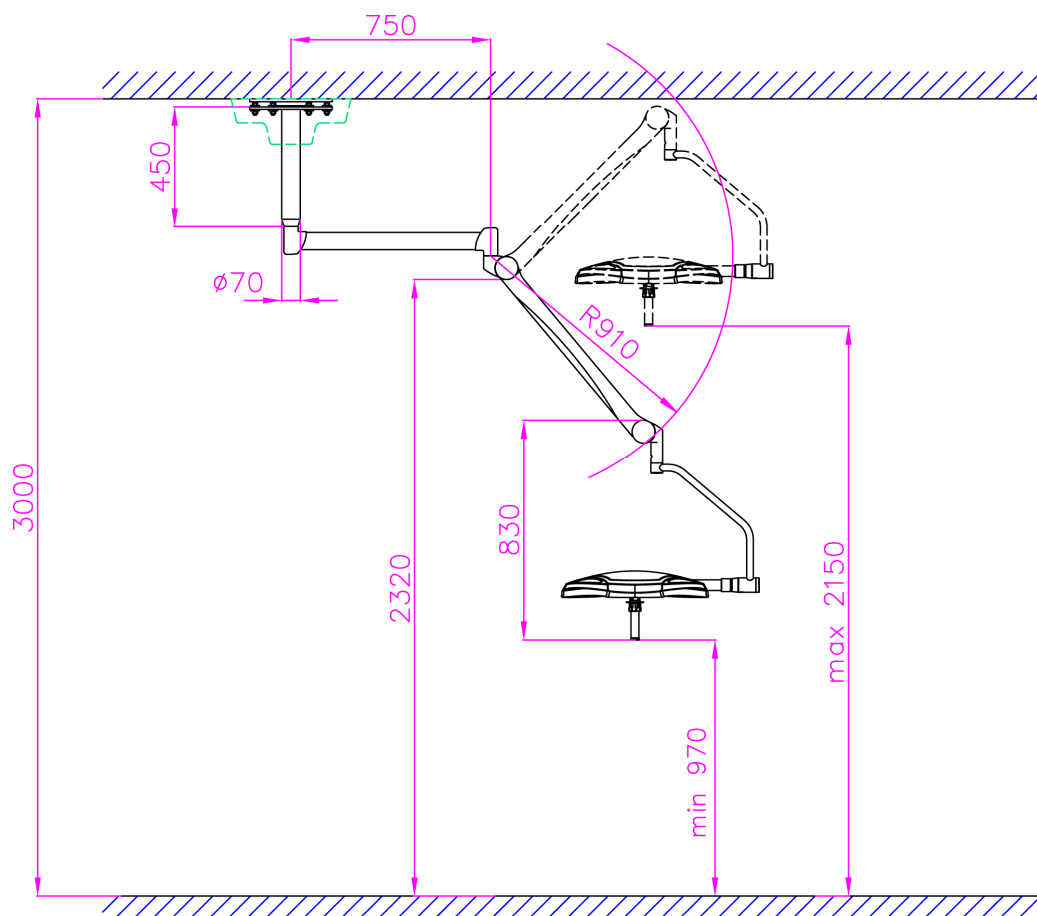
Mechanical data

Joints on cardanic bows rotatable by 430°, without stop around the spring arm	
Adjustable brakes	
Height adjustment for fully cardanic suspension	1180 mm
Version with one-part bow for low room heights	
Housing made of plastic	

Weight

Lighthead, without suspension system	max. 12 kg
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Sample drawing of a single light, room height of 3.00 m:



Subject to technical modification

State: 20.01.2021