

# MACH LED 300DF Ceiling mounted

Data sheet no. 59000557 / A10



## FEATURES

Merging of light fields  
Duo-Focus technology  
Light intensity control  
Comfortable display and key-pad  
ON/OFF switch

F  
DF

## FEATURES (optional)

Additional central reflector for improving depth illumination

Surcharge

## Technical data

	Mach LED 300DF	Mach LED 300DF with Spot
Central light intensity at a distance of 1 meter	140.000 Lux	160.000 Lux
Light field diameter d <sub>10</sub>	170 mm	170 mm
Light field diameter d <sub>50</sub>	90 mm	80 mm
Light intensity with one shadower	44 %	34 %
Light intensity with two shadowers	39 %	51 %

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Light intensity on the ground of a normed tube	100 %	100 %
Light intensity on the ground of a normed tube with one shadower	44 %	34 %
Light intensity on the ground of a normed tube with two shadowers	39 %	51 %
Illumination depth 20 %	900 mm	1500 mm
Illumination depth 60 %	446 mm	638 mm
Colour rendering index R <sub>a</sub>	94	94
Colour rendering index R <sub>9</sub>	92	92
Electronic light intensity control at the lamp	50 - 100%	50 - 100 %
Max. radiation in field in a distance of 1 meter	506 W/m <sup>2</sup>	569 W/m <sup>2</sup>
Max. radiation in field in a distance of 0,92 meter	543 W/m <sup>2</sup>	
Max. radiation in field in a distance of 0,90 meter		670 W/m <sup>2</sup>
Focussable size of the light field	17 - 29 cm	17 - 26 cm
Colour temperature (Kelvin)	4500 K	4500 K
Temperature increase in head area	0,5 °C	0,5 °C
Height adjustment	118 cm	118 cm
Number of LED's	36	37
Life span of LED's	60.000 h	60.000 h
Light head diameter	55 cm	55 cm

\* Surcharge for additional central reflector

## Remark:

The technical data are subject to fluctuations. Due to manufacturing reasons the real values can slightly differ from the data mentioned above.

The values for R<sub>a</sub> can differ with approx ± 10%.

The values for the colour temperature can differ with approx ± 200K.

## Electrical data

	Mach LED 300DF	Mach LED 300DF Spot
Power consumption	50 W	55 W
Operating voltage DC	24 – 30 V DC	24 – 30 V DC
Current	2,1 A	2,3 A

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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

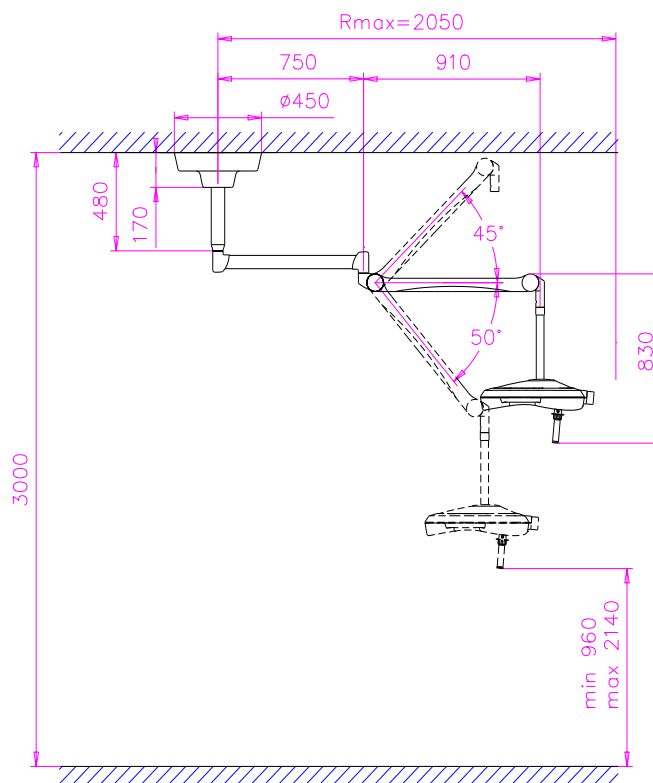
Protection and approval in accordance with EU directive 93/42/EEC Annex IX

## Mechanical specifications

360° continuous rotation around all major joints	
Adjustable brakes at the horizontal arm	
Height adjustment	1180 mm
Min. roomheight	
Single lamp head	2800 mm
Depending on the lamp combination	
Passing height	approx. 2000 mm
Torque	300 Nm
Detachable handle, sterilisable at 134° C	

## Weight

Light head	14 kg
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Subject to technical modification

27.07.2020