
Technical Data Sheet
Examination light Sim.LED 350



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Technical Data Sheet

Examination light Sim.LED 350

1. Description

High-quality LED's combined with the patented reflector technology create the pre-condition of illuminating the examination field. The perfect arrangement of LED reflectors facilitates the maximum efficiency of the light emitting surface. The LED light sources mainly emit visible light without any infrared components.

The Sim.LED 350 examination lights are made of high-end material such as aluminum. The housing made of aluminum favors a well-established heat management. This offers an important advantage. It avoids heat accumulation by direct heat sink function which leads to an extremely long lifetime of the LEDs.

In addition, the Sim.LED 350 offers a hygiene-optimized design.

The Sim.LED 350 examination light is available as a mobile version (optionally with battery back-up), wall-mounted version and ceiling-mounted version.

The Sim.LED 350 convinces with the innovative antibacterial coating Anti.BAC[®]. Anti.BAC[®] reduces germs by 99.99% and is completely free of physiologically harmful nano-silver or free silver ions.

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Examination light Sim.LED 350

2. Technical data

Photometrical data:		Sim.LED 350
Central Illumination E_c (1 m)	[lx]	60,000
Dimming Capability	[&]	0/50/100
Light Field Diameter d_{10} at a Distance of 1 m	[mm]	170
Light Field Diameter d_{50} at a Distance of 1 m	[mm]	80
Color Temperature	[K]	4,500
Color Rendering Index	Ra (1-8)	96
Red Rendering Index	R ₉	96
Total Irradiance	[W/m ²]	338
Depth of illumination without additional focussing (L1+L2) at 20 %	[mm]	1,780
Depth of illumination without additional focussing (L1+L2) at 60 %	[mm]	1,160
Light Emitting Surface	[cm ²]	220
LED – Light Source	[pieces]	3 x 3 = 9
Efficiency of max. Light Intensity to max. Power Consumption (60,000 lx / 25 W)	[lx/W]	2,400
Electrical data:		Sim.LED 350
Power Supply incl. Mounting Plate (LxWxH)	[mm]	92x60x31
Power Supply – Primary Voltage	[V]	100-240
Input Voltage at Light Head	[V]	22-26
Typical Input Voltage	[V]	24
Maximum Current Consumption	[A]	1.35
Typical Current Consumption	[A]	1.04
Power Consumption with 24 V	[W]	25
Life Time of Light Source	[h]	> 60,000
Classification According MDD		I
Protection Class According IEC 601		I
Suspension Protection Class	IP	IP 30
Light Housing Protection Class	IP	IP 42
Certificate		CE

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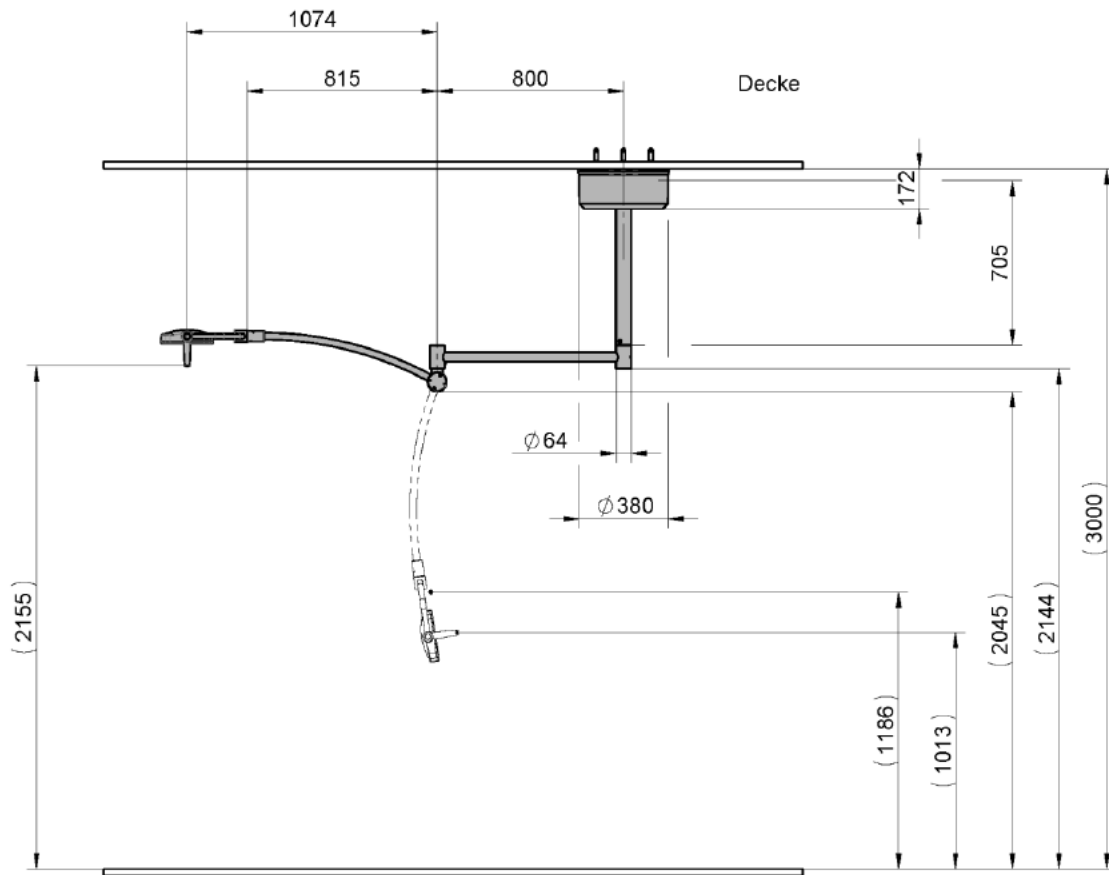
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Mechanical data:		Sim.LED 350
Minimum Room Height With Full Cardanic Suspension (Power Supply at the Ceiling Tube / Pass Line Height 2.25 m)	[mm]	2,400
Minimum Room Height With Full Cardanic Suspension (Power Supply External / Pass Line Height 2.25 m)	[mm]	2,400
Operating Range	[mm]	2,039
Adjustment of the Spring Arm	[mm]	1,235
Approx. Weight of a Standard Ceiling Tube	[kg]	10.5
Approx. Weight of the Suspension	[kg]	5.3
Approx. Weight of the Spring Arm Swing	[kg]	4.5
Approx. Weight of the Power Supply	[kg]	0.5
Approx. Weight of the Light Head	[kg]	3
Total Weight	[kg]	23.8
Vertical Force	[N]	ca. 324
Moment of torque	[Nm]	ca. 130
Ceiling Cover Measurements	[mm]	Ø380x160 (80)
Height of the Light Head Without Sterile Handle	[mm]	ca. 52
Measurement Light Head	[mm]	210x210
Mobile stand with battery:		Sim.LED 350
Single Battery runtime at maximum intensity	[h]	8.6
Battery charging time	[h]	2.5
Estimated amount of charging cycles		1000
Optional power supply:		
Primary Voltage AC	[V]	100-240
Power frequency	[Hz]	47-63
Current Consumption	[A]	2.5-1.2

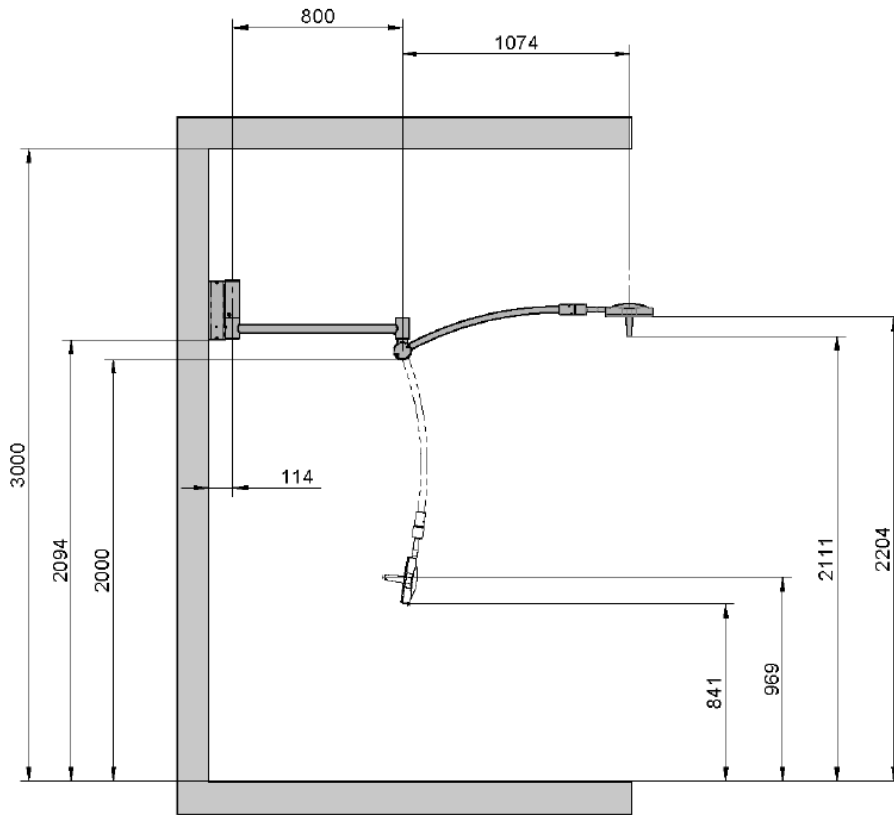
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3. Technical drawing



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