



Technical Data: Flex^eLux Major Surgical Lights

	Units	Flex ^e Lux 16	Flex ^e Lux 12
Photometrical Data:			
Central Illumination Ec (1m)	[lx]	160,000	140,000
Electronic Dimming Range	[lx]	48,000-160,000	42,000-140,000
Light Field Diameter d10 at a distance of 1m	[mm]	[200-330]	[200-320]
Electronic Field Adjustment		yes	yes
Color Temperature	[K]	4,500	4,500
Color Rendering Index	Ra (1-8)	96	96
Red Rendering Index	R9	96	96
Total Irradiance (with 100.000 lx)	[W/m ²]	[515]	[400]
Luminosity factor of radiation	[lm/W]	290	290
Illumination Depth Without Additional Working Range Without Additional Focusing	[mm]	[550-1,650]	[500-1,700]
Laminar Flow Index (measurement of turbulence)	[%]	27	18
Laminar Flow Index (measurement of particles)	[class]	4.1	3.6
Light Emitting Surface	[cm ²]	[2.940]	[2.040]
Temperature Increase at Surgeon's Head	[°C]	< 1	< 1
LED – Light Source	[units]	36 x 3 = 108	24 x 3 = 72
Radiant Energy	[mW/m ² lx]	3.4	3.4
Ambient Light Mode		yes	yes
Camera HD-Quality		yes	yes
Residual Illumination with 1 Shadow-Caster	[%]	81	66
Residual Illumination with 2 Shadow-Caster	[%]	65	60
Residual Illumination with 1 Tube	[%]	100	100
Residual Illumination with 1 Tube and 1 Shadow-Caster	[%]	80	65
Residual Illumination with 1 Tube and 2 Shadow-Casters	[%]	64	61
Efficiency of max. Light Intensity to max. Power Consumption (160.000 lx / 60 W)	[lx/W]	2,667	2,800



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Electrical Data:			
Power Supply incl. Mounting Plate (LxWxH)	[mm]	[322x145x90]	[322x145x90]
Power Supply – Primary Voltage	[V]	90-240	90-240
Input Voltage at Light Head	[V]	20-33	20-33
Typical Input Voltage	[V]	24	24
Maximum Current Consumption	[A]	5.4	5.4
Typical Current Consumption	[A]	2.5	2.5
Power Consumption with 24 V	[W]	60	50
Life Time of Light Source	[h]	> 50,000	> 50,000
Classification According MDD		I	I
Protection Class According IEC 60601		I	I
Suspension Protection Class	IP	IP 30	IP 30
Light Housing Protection Class	IP	IP 42	IP 42
Mechanical Data:			
Operating Range	[mm]	[1,750]	[1,750]
Adjustment of the Spring Arm	[mm]	[1,178]	[1,178]
Approx. Weight of a Standard Ceiling Tube	[kg]	[10.5]	[10.5]
Approx. Weight of the Suspension	[kg]	[9.5]	[9.5]
Approx. Weight of the Flex°Port 20 spring arm	[kg]	[7.4]	[7.4]
Approx. Weight of the Power Supply	[kg]	[4.6 / 2.2]	[4.6 / 2.2]
Approx. Weight of the Light Head	[kg]	[18]	[15]
Total Weight	[kg]	50	47



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Vertical Force	[N]	ca. 530	ca. 530
Moment of torque	[Nm]	ca. 350	ca. 350
Ceiling Cover Measurements	[mm]	Ø620x180 (90)	Ø620x180 (90)
Thickness of the Light Head	[mm]	ca. 68	ca. 68
Light Head Measurements	[mm]	795x704	695x611

Tolerance ±10%

