



Technical Data: Flex^eLux Major Surgical Lights

| | Units | FlexeLux 16 SC | FlexeLux 12 SC |
|--|----------------------------|---------------------------------|---------------------------------|
| Photometrical Data: | | | |
| Central Illumination Ec (1m) (39³/₈ in) | [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 (39³/₈ in) | [mm] | [200-330] | [200-320] |
| | (in) | (7.87" – 12.99") | (7.87" – 12.6") |
| Electronic Field Adjustment | [mm] (in) | 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] |
| | (W/ in²) | (798251.6in²) | (620001.2in²) |
| Luminosity factor of radiation | [lm/W] | 290 | 290 |
| Illumination Depth Without Additional Working Range Without Additional Focusing | [mm] | [550-1,650] | [500-1,700] |
| | (in) | (21.65 – 64.96) | (19.69 – 66.93) |
| 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] |
| | (in²) | (455.7) | (316.2) |
| 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] <i>(in)</i> | [322x145x90] (12.68 x 5.71 x 3.54) | [322x145x90] (12.68 x 5.71 x 3.54) |
| 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] <i>(in)</i> | [1,750] (68.9) | [1,750] (68.9) |
| Adjustment of the Spring Arm | [mm] <i>(in)</i> | [1,178] (46.38) | [1,178] (46.38) |
| Approx. Weight of a Standard Ceiling Tube | [kg] <i>(lbs)</i> | [10.5] (23.15) | [10.5] |
| Approx. Weight of the Suspension | [kg] <i>(lbs)</i> | [9.5] (20.94) | [9.5] |
| Approx. Weight of the Flex ^e Port 20 spring arm | [kg] <i>(lbs)</i> | [7.4] (20.72) | [7.4] |
| Approx. Weight of the Power Supply | [kg] <i>(lbs)</i> | [4.6 / 2.2] (10.14 / 4.85) | [4.6 / 2.2] (10.14 / 4.85) |
| Approx. Weight of the Light Head | [kg] <i>(lbs)</i> | [18] (39.68) | [15] (33.07) |
| Total Weight | | 50 (47.5) | 47 (44.5) |



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| Electrical Data: | | | |
| Vertical Force | [N] | ca. 530 | ca. 530 |
| Moment of torque | [Nm] | ca. 350 | ca. 350 |
| Ceiling Cover Measurements | [mm] | Ø620x180 (90) | Ø620x180 (90) |
| | (in) | Ø24.41x7.09 (3.54) | Ø24.41x7.09 (3.54) |
| Thickness of the Light Head | [mm] | ca. 68 | ca. 68 |
| | (in) | (ca.268") | (ca.268") |
| Light Head Measurements | [mm] | 795x704 | 695x611 |
| | (in) | (31.3 x 27.72) | (27.36 x 24.06) |

Tolerance ±10%

