



**SHD**<sup>®</sup>  
— I T A L I A —  
ENGINEERING TECHNOLOGIES EQUIPMENT SUPPLIES

**COMET LAMP**

# COMET, THE ONLY LIGHT WITHOUT GLARE

COMET is the upshot of the engineering imagination of a close-knit team of physicists, engineers and surgeons with the aim of shedding light on the surgical field and suppressing all forms of direct and indirect glare.

## 2R DOUBLE REFLECTION SYSTEM

The 2R system eliminates annoying glare, also side glare, in case of inadvertent vision of the light source by the operating theatre staff.

The LED light beams are conveyed into an aspherical lens and projected on the first elliptical segmented mirror, which in turn reflect them onto the second mirror with smooth surface and convey them into the surgical field. The latter reflection passes through the screen made with a roughness index such as to stratify and collimate the light beam. The large light emission area and the circular shape of the interruption-free mirrors produce a shadowless effect.

The two continuous double-reflection circular modules light with different focal distances to optimize the shadowless effect, ensuring an ample light depth and maintaining constant lighting.

## COMET H - PERFORMANCES

|  |                       |                      |
|--|-----------------------|----------------------|
| Light intensity at 1m distance (Ec)                              | Klx                   | 160                  |
| Color temperature  | K                     | From 3.800 to 5.000K |
| Color rendering index (CRI)                                      | Ra                    | 96                   |
| R9   |                       | 96                   |
| d50 light field diameter where illuminance reaches 50% of Ec     | mm                    | 110                  |
| d10 light field diameter where illuminance reaches 10% of Ec     | mm                    | 210                  |
| Light field diameter adjustable from – to –                      | mm                    | 210 - 350            |
| Depth of illumination IEC60601-2-41 (L1+L2) at 60%               | cm                    | 49                   |
| Depth of illumination IEC60601-2-41 (L1+L2) at 20%               | cm                    | 103                  |
| Total radiated energy Ee where the illuminance reaches max level | W/m <sup>2</sup>      | 580                  |
| Ratio between radiated energy Ee and illuminance Ec              | mW/m <sup>2</sup> .lx | 3,62                 |
| <b>ELECTRICAL DATA</b>   |                       |                      |
| Primary alternating voltage (a.c.)                               | V                     | 100 - 240            |
| Frequency  | Hz                    | 50 / 60              |
| Absorbed power   | W                     | 41                   |
| No. of LED   | Led                   | 84                   |
| Average LED life   | hours                 | 50.000               |

## OUR RANGE

**SHD**<sup>®</sup>



COMET - H.01



COMET - H.02



COMET - L.01



COMET - L.02

# COMET L - PERFORMANCES

|  |     |                |
|--|-----|----------------|
| Light intensity at 1 m distance (Ec)                         | Klx | 160            |
| Color temperature: double selection                          | K   | 4500 / 5000    |
| Color rendering index (CRI)                                  | Ra  | Ra 96          |
| R9   |     | ≥ 90           |
| No. of Leds  |     | 29             |
| Focus  |     | FIXED          |
| Light field diameter adjustable from – to –                  | cm  | 11 – 28        |
| Diameter adjustment  |     | ELECTRONIC     |
| d10 light field diameter where illuminance reaches 10% of Ec | mm  | 110            |
| d50 light field diameter where illuminance reaches 50% of Ec | mm  | 230            |
| Depth of illumination (L1+L2) at 60%                         | cm  | 60             |
| <b>ELECTRICAL DATA</b>                                       |     |                |
| Primary alternating voltage (V a.c.)                         | V   | 100 ÷ 240      |
| Secondary continue voltage (d.c.)                            | V   | 24             |
| Frequency  | Hz  | 50/60          |
| Control of the illuminance                                   | %   | 25 - 100       |
| <b>GENERAL DATA</b>  |     |                |
| Colour   |     | RAL 9003       |
| Directive  |     | 2007/47/EC     |
| Standards  |     | IEC 60601-2-41 |
| Classification of product (Medical Device)                   |     | Class I        |
| <b>DIMENSIONS</b>  |     |                |
| Out reflector diameter                                       | cm  | 52             |
| Weight   | kg  | 35             |

## OPTIONALS

- Battery group with automatic charger
- HD camera (Y PB PR signal)
- HD camera (HD-SDI signal)
- Wireless HD camera
- IR remote control
- Wall control panel
- Additional arm for Monitor
- Additional arm for double Monitor
- Double fork

MADE IN ITALY

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