



## UV Technology

Product information  
MR<sup>®</sup> 5000 Variolight

**MR**<sup>®</sup>  
CHEMIE  
NDT-materials

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## MR<sup>®</sup> 5000 Variolight

**UV LED area lamp  
for fluorescent Non-Destructive Testing according to EN ISO 3059**



fig. art.no. 5000S2

The UV area lamp MR<sup>®</sup> 5000 Variolight is a UV lamp of next generation specially manufactured according to customer requirements. This means that dimensions, amount of LED tubes and therefore the light distribution are variable.

### Advantages of MR<sup>®</sup> 5000 Variolight compared with customary 400W UV lamp:

- **Fulfils the requirements of:**
  - EN ISO 3059:2013-03
  - ASTM E3022\*
  - RRES 90061 Rev. 0 (Rolls-Royce)\*
- **Energy conservation of 80-85% through modern LED technology**
- **No noise emission through cooling technology without fan**
- **No heat emission**
- **Very homogenous light distribution**
- **Optional motion sensor for efficient operation**
- **Optional dimming for regulation of UVA power**

\*Please order art.186-22 L separately

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\*\*Technical changes reserved!\*\*



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## Technical data:

The following are exemplary standard versions for orientation. Please note that MR<sup>®</sup> 5000 will be manufactured individually according to customer requirements. Please feel free to contact us!

|   | Version 1                           | Version 2       | Version 3       | Version 4        |
|---|-------------------------------------|-----------------|-----------------|------------------|
| Art. no.:   | 5000S1                              | 5000S2          | 5000S3          | 5000S4           |
| Risk class according to EM06 (DGZfP):             | 2                                   |                 |                 |                  |
| Wavelength, nominal max. (Peak):                  | 365 nm +/- 3 nm                     |                 |                 |                  |
| UVA*:   | ca. 45 W/m <sup>2</sup>             |                 |                 |                  |
| UVA source:                                       | 15 UV LEDs                          | 24 UV LEDs      | 32 UV LEDs      | 48 UV LEDs       |
| LED tubes   | 3                                   | 3               | 4               | 3                |
| White light portion*:                             | 5 lx                                |                 |                 |                  |
| Light distribution (UVA > 10 W/m <sup>2</sup> )*: | 400 x 440 mm                        | 740 x 440 mm    | 740 x 560 mm    | 450 x 1250 mm    |
| Cooling:  | Passive cooling by housing          |                 |                 |                  |
| Working temperature:                              | 10-45 °C                            |                 |                 |                  |
| Lifetime UV-LED**:                                | 8.000-10.000 h                      |                 |                 |                  |
| Power supply voltage:                             | 110-230 V/50Hz                      |                 |                 |                  |
| Reflectors:                                       | 30°                                 |                 |                 |                  |
| Dimensions, mm (HxWxD):                           | 175 x 320 x 210                     | 175 x 585 x 210 | 175 x 585 x 290 | 175 x 1115 x 210 |
| Weight:   | approx. 8,3 kg                      | approx. 11 kg   | approx. 14 kg   | approx. 18 kg    |
| Control unit:                                     | Internal                            |                 |                 |                  |
| Cable:  | 4 m industry cable with safety plug |                 |                 |                  |
| Protection housing class acc. to EN60529:         | IP54                                |                 |                 |                  |

\* Measuring at a distance of 38 cm to surface. | \*\* Under laboratory conditions as specified by the manufacturer.

