

LED lamp for optimized illumination during high-speed image capturing. Synchronized operation with cameras allows for double light output. Turn-key solution for crash and sled test facilities.

- No warm-up or cool-down period – immediate maximum luminous power
- Test object not exposed to thermal radiation
- LED service life > 50,000 hours
- Compact design for various applications
- Available with four different beam angles

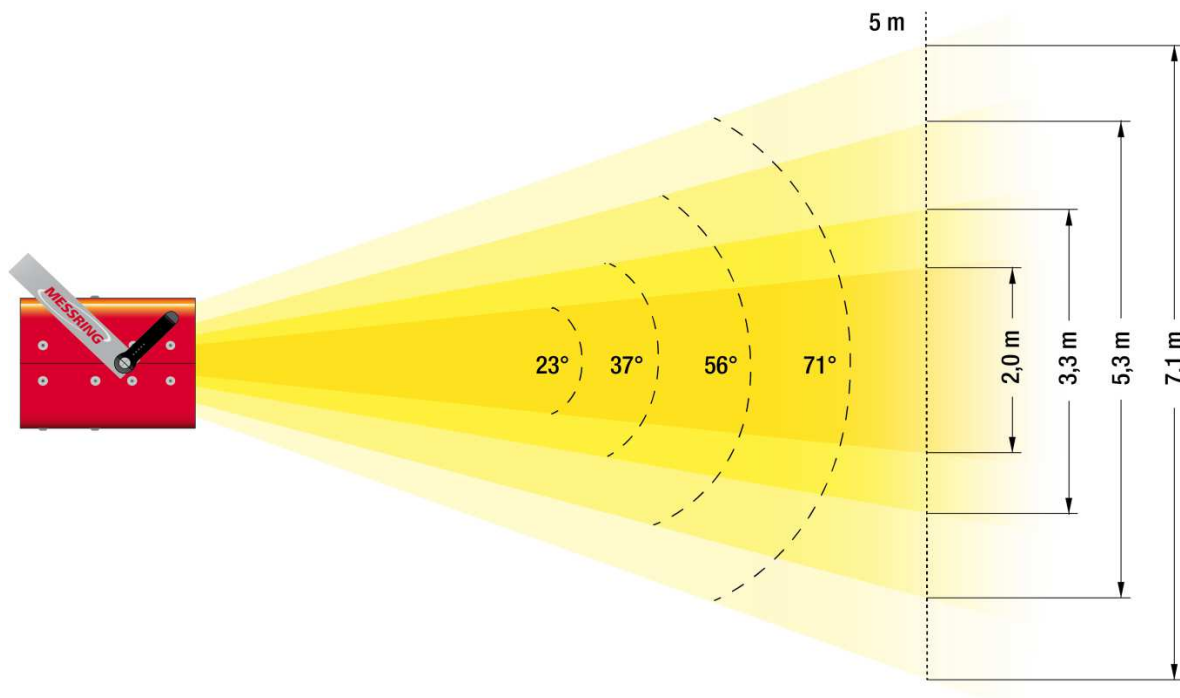


Figure 1: Available beam angles

| Lens angle | Distance 1 m | Distance 2 m | Distance 3 m | Distance 4 m | Distance 5 m |
|------------|--------------|--------------|--------------|--------------|--------------|
| 23°        | 293,000      | 61,400       | 25,700       | 14,100       | 8,900        |
| 37°        | 127,300      | 27,500       | 12,000       | 6,400        | 4,000        |
| 56°        | 65,300       | 13,000       | 5,400        | 2,900        | 1,800        |
| 71°        | 52,700       | 11,000       | 4,700        | 2,600        | 1,600        |

Table 1: Illuminance (lux) examples

Please note: The above mentioned illuminance values are based on 100 % steady light operation mode. With synchronized mode the maximum reachable illuminance values can be doubled.

**TECHNICAL SPECIFICATIONS**

|   |  |
|---|--|
| Beam angles                                 | 23°, 37°, 56°, 71°   |
| Color temperature                           | 6,500...7,100 K (daylight)   |
| Nominal input power                         | 1,150 W  |
| Power supply                                | 100...230 VAC, 50/60 Hz  |
| Luminous flux (steady light mode)           | 75,000 lumen   |
| Luminous flux (synchronized mode)           | 150,000 lumen  |
| Adjustable light output (steady light mode) | 0...100 %  |
| Adjustable light output (synchronized mode) | Up to 200 %  |
| Max. frame rate (steady light mode)         | No limitation (flicker-free)   |
| Max. frame rate (synchronized mode)         | Up to 25,000 fps<br>Adjustable flash duration: 20...500 µs                       |
| Dimensions (L x W x H)                      | 213 mm x 251 mm x 147 mm   |
| Weight                                      | 6.4 kg   |
| Ambient operating temperature               | Unlimited continuous operation up to 34°C<br>Under certain conditions up to 50°C |
| Cooling system                              | Temperature controlled fans  |
| Communication interface                     | Serial bus (differential signal with automatic bus termination)                  |
| Eye safety classification                   | DIN EN 62471 RG2   |

**Scope of supply**

- M=LIGHT LED
- Power cord (2 m)
- Cat. 6 Ethernet cable (3 m)

**Options / Services**

- M=LIGHT Connection Set (further information on request)
- M=LIGHT Bus-Splitter (separates communication and synchronization signals)
- Can 2 USB/Ethernet PC-interface
- M=LIGHT control software
- Consultation and design of customer-specific turn-key lighting systems