IP54 IP20 3W LED Colour

# MICRO-STAR ER

MADE in GERMANY

**Safety luminaire in compliance with EN IEC 60598-1/2-22 and EN 1838.**
Small, modern luminaire body made of anodized aluminum with pre-mounted acrylic optics for surface illumination and enclosed acrylic optics for escape route illumination. The luminaire is designed for installation in openly accessible ceilings. The luminaire can be ordered with or without container. The container made of polycarbonate consists of only one element and is therefore small and compact.
**ATTENTION!**: Product versions without plastic container for built-in into safety class I luminaires has to be electrical grounded according to instruction.



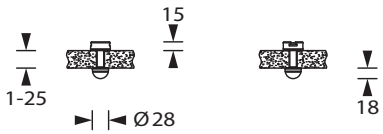
## Technical specifications

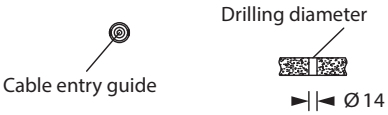
| **Luminaire type** | **Luminaires for central battery systems** | **Self contained luminaires** |
|---|---|---|
| Illuminant | 3 W LED | 3 W LED |
| Connecting terminals | 2 x 2.5 mm² for double assignment | |
| Colour | white aluminum (silver) | |
| Material | Aluminum (light cover clear) | |
| Mounting type | Recessed mounting | |
| Dimensions (Ø x D) | DE 28 x 18 mm | |
| Dimensions Container (W x H x D) | 197 x 73 x 30 mm | |
| Ceiling cutout (Ø) | 14 mm | |
| Dimensions Driver (W x H x D) | non-monitored 76 x 22 x 23 mm<br>monitored 110 x 22 x 23 mm | 110 x 23 x 22 mm |
| Distance mounting holes driver | non-monitored 74 mm<br>monitored 104 mm | 104 mm |
| Dimensions Battery (W x H x D) | – | 155 x 25 x 25 mm |
| Distance mounting holes battery | – | 148 mm |
| Protection class | IP54 | |
| Protection class container | IP20 | |
| Safety class | II | |
| IK Safety class | IK03 | |
| Light current (mains) | 280 lm | 120 lm |
| Light current (emergency) | | |
| Battery duration 1h | – | 280 lm |
| Battery duration 3h | – | 280 lm |
| Battery duration 8h | – | 120 lm |
| Luminous flux Emergency (DC) / mains | | |
| Battery duration 1h | – | 100% / 45% |
| Battery duration 3h | – | 100% / 45% |
| Battery duration 8h | – | 45% / 45% |
| Power consumption | 6 VA | 5 VA |
| Battery current input | 15 mA | – |
| Battery duration Battery operation | – | 1h / 3h / 8h |
| Voltage supply | 230V 50/60Hz; 220V DC +25/-20% | 230V 50/60Hz |
| NiMH-battery | | |
| Battery duration 1h | – | 4,8V 2,0Ah |
| Battery duration 3h | – | 4,8V 2,0Ah |
| Battery duration 8h | – | 4,8V 2,0Ah |
| Temperature range | -10°C to +40°C | – |
| Non-maintained mode | – | 0°C to +35°C |
| Maintained mode | – | -5°C to +30°C |

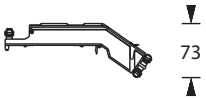

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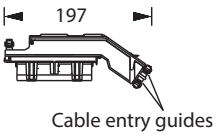
| optional | | |
|---|---|---|
| Multi-switch and monitoring module | ELC<br>MSÜ3<br>SET009<br>SET010 | – |
| Self monitoring | – | SELF CHECK |
| Central monitoring | – | SAFELOG Line |
| Wireless monitoring | – | SAFELOG Wireless |

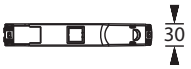
## Recessed mounting



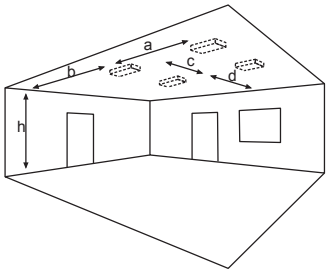




## Lighting data and tables of luminaire distances (E = 1,25 lx)

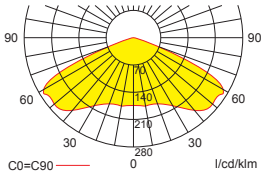



Ceiling mounting

### Luminaires for central battery systems **wide area optics**

**Distance table for plane emergency routes / distance data in meters**

Illuminant: 3W LED




Luminous flux emergency / mains: 280lm

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| h | 2.50 | 3.00 | 3.50 | 4.00 | 4.50 | 5.00 | 5.50 | 6.00 | 6.50 | 7.00 | 7.50 | 8.00 |
| a | 10.50 | 11.90 | 12.90 | 13.40 | 13.40 | 13.40 | 13.40 | 13.20 | 12.40 | 9.60 | 7.40 | 5.90 |
| b | 4.60 | 4.70 | 4.70 | 4.70 | 4.60 | 4.00 | 2.90 | 1.60 | 1.60 | 1.60 | 1.60 | 1.60 |
| c | 10.50 | 11.90 | 12.90 | 13.40 | 13.40 | 13.40 | 13.40 | 13.20 | 12.40 | 9.60 | 7.40 | 5.90 |
| d | 4.60 | 4.70 | 4.70 | 4.70 | 4.60 | 4.00 | 2.90 | 1.60 | 1.60 | 1.60 | 1.60 | 1.60 |

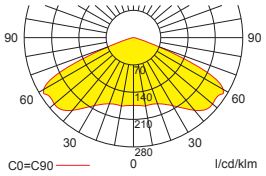


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## Self contained luminaires **wide area optics**

**Distance table for plane emergency routes / distance data in meters**

Illuminant: 3W LED



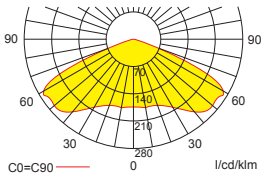

Luminous flux emergency / mains: 280lm/120lm – **Battery duration: 1h**

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| h | 2.50 | 3.00 | 3.50 | 4.00 | 4.50 | 5.00 | 5.50 | 6.00 | 6.50 | 7.00 | 7.50 | 8.00 |
| a | 10.50 | 11.90 | 12.90 | 13.40 | 13.40 | 13.40 | 13.40 | 13.20 | 12.40 | 9.60 | 7.40 | 5.90 |
| b | 4.60 | 4.70 | 4.70 | 4.70 | 4.60 | 4.00 | 2.90 | 1.60 | 1.60 | 1.60 | 1.60 | 1.60 |
| c | 10.50 | 11.90 | 12.90 | 13.40 | 13.40 | 13.40 | 13.40 | 13.20 | 12.40 | 9.60 | 7.40 | 5.90 |
| d | 4.60 | 4.70 | 4.70 | 4.70 | 4.60 | 4.00 | 2.90 | 1.60 | 1.60 | 1.60 | 1.60 | 1.60 |

## Self contained luminaires **wide area optics**

**Distance table for plane emergency routes / distance data in meters**

Illuminant: 3W LED



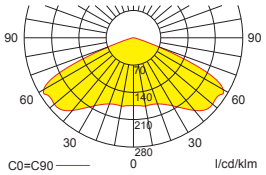

Luminous flux emergency / mains: 280lm/120lm – **Battery duration: 3h**

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| h | 2.50 | 3.00 | 3.50 | 4.00 | 4.50 | 5.00 | 5.50 | 6.00 | 6.50 | 7.00 | 7.50 | 8.00 |
| a | 10.50 | 11.90 | 12.90 | 13.40 | 13.40 | 13.40 | 13.40 | 13.20 | 12.40 | 9.60 | 7.40 | 5.90 |
| b | 4.60 | 4.70 | 4.70 | 4.70 | 4.60 | 4.00 | 2.90 | 1.60 | 1.60 | 1.60 | 1.60 | 1.60 |
| c | 10.50 | 11.90 | 12.90 | 13.40 | 13.40 | 13.40 | 13.40 | 13.20 | 12.40 | 9.60 | 7.40 | 5.90 |
| d | 4.60 | 4.70 | 4.70 | 4.70 | 4.60 | 4.00 | 2.90 | 1.60 | 1.60 | 1.60 | 1.60 | 1.60 |

## Self contained luminaires **wide area optics**

**Distance table for plane emergency routes / distance data in meters**

Illuminant: 3W LED



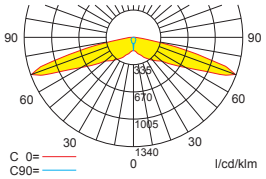

Luminous flux emergency / mains: 120lm/120lm – **Battery duration: 8h**

| | | | | | | |
|---|---|---|---|---|---|---|
| h | 2.50 | 3.00 | 3.50 | 4.00 | 4.50 | 5.00 |
| a | 8.70 | 8.80 | 8.80 | 8.60 | 7.70 | 5.20 |
| b | 3.10 | 3.00 | 2.20 | 0.80 | 0.80 | 0.80 |
| c | 8.70 | 8.80 | 8.80 | 8.60 | 7.70 | 5.20 |
| d | 3.10 | 3.00 | 2.20 | 0.80 | 0.80 | 0.80 |

## Luminaires for central battery systems **escape route optics**

**Distance table for plane emergency routes / distance data in meters**

Illuminant: 3W LED



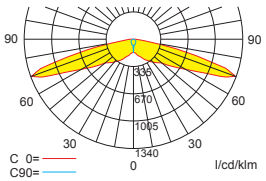

Luminous flux emergency / mains: 280lm

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| h | 2.50 | 3.00 | 3.50 | 4.00 | 4.50 | 5.00 | 5.50 | 6.00 | 6.50 | 7.00 | 7.50 | 8.00 |
| a | 18.80 | 21.00 | 23.00 | 24.60 | 25.90 | 26.00 | 25.70 | 25.10 | 21.00 | 18.00 | 15.50 | 11.00 |
| b | 8.20 | 8.90 | 9.50 | 9.20 | 8.00 | 7.00 | 5.80 | 5.90 | 5.00 | 4.00 | 3.50 | 3.00 |
| c | – | – | – | – | – | – | – | – | – | – | – | – |
| d | – | – | – | – | – | – | – | – | – | – | – | – |

## Self contained luminaires **escape route optics**

**Distance table for plane emergency routes / distance data in meters**

Illuminant: 3W LED



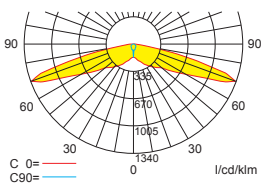

Luminous flux emergency / mains: 280lm/120lm – **Battery duration: 1h**

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| h | 2.50 | 3.00 | 3.50 | 4.00 | 4.50 | 5.00 | 5.50 | 6.00 | 6.50 | 7.00 | 7.50 | 8.00 |
| a | 18.80 | 21.00 | 23.00 | 24.60 | 25.90 | 26.00 | 25.70 | 25.10 | 21.00 | 18.00 | 15.50 | 11.00 |
| b | 8.20 | 8.90 | 9.50 | 9.20 | 8.00 | 7.00 | 5.80 | 5.90 | 5.00 | 4.00 | 3.50 | 3.00 |
| c | – | – | – | – | – | – | – | – | – | – | – | – |
| d | – | – | – | – | – | – | – | – | – | – | – | – |

## Self contained luminaires **escape route optics**

**Distance table for plane emergency routes / distance data in meters**

Illuminant: 3W LED

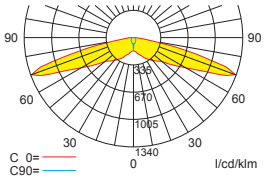



Luminous flux emergency / mains: 280lm/120lm – **Battery duration: 3h**

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| h | 2.50 | 3.00 | 3.50 | 4.00 | 4.50 | 5.00 | 5.50 | 6.00 | 6.50 | 7.00 | 7.50 | 8.00 |
| a | 18.80 | 21.00 | 23.00 | 24.60 | 25.90 | 26.00 | 25.70 | 25.10 | 21.00 | 18.00 | 15.50 | 11.00 |
| b | 8.20 | 8.90 | 9.50 | 9.20 | 8.00 | 7.00 | 5.80 | 5.90 | 5.00 | 4.00 | 3.50 | 3.00 |
| c | – | – | – | – | – | – | – | – | – | – | – | – |
| d | – | – | – | – | – | – | – | – | – | – | – | – |

**Distance table for plane emergency routes / distance data in meters**

Illuminant: 3W LED




Luminous flux emergency / mains: 120lm/120lm – **Battery duration: 8h**

| | | | | | | |
|---|---|---|---|---|---|---|
| h | 2.50 | 3.00 | 3.50 | 4.00 | 4.50 | 5.00 |
| a | 15.80 | 17.10 | 16.80 | 15.70 | 10.00 | 9.50 |
| b | 6.20 | 5.10 | 3.90 | 2.50 | 2.00 | 1.50 |
| c | – | – | – | – | – | – |
| d | – | – | – | – | – | – |



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