



# SPOT-LIGHT 80-AL ER-F/R

## Safety luminaire in compliance with EN IEC 60598-1/2-22 and EN 1838.

Nearly ceiling-flush recessed safety luminaire with round head made of white polycarbonate.

To reduce maintenance costs, the battery of the single-battery version can be replaced without tools via a click system.

The optic for area illumination is pre-assembled, the optic for escape route illumination is included.

A square cover frame is optionally available.

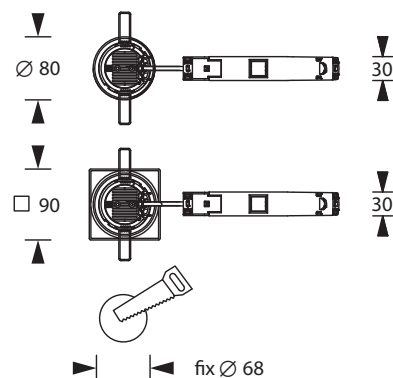
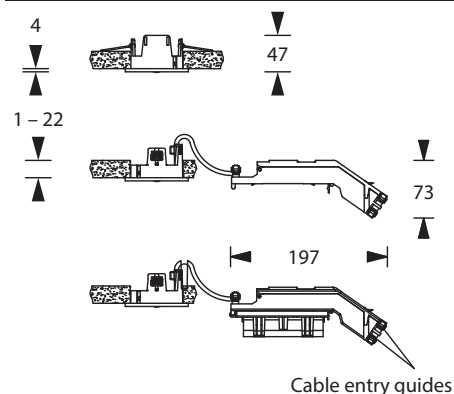
Equipped with a 3W power LED and additional LED heat sink made of aluminum.

## 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 mm <sup>2</sup> for double assignment |                           |
| Colour                             | white                                         |                           |
| Material                           | Aluminum die-cast/Polycarbonate               |                           |
| Mounting type                      | Recessed mounting                             |                           |
| Dimensions (Ø x D)                 | DE 80 x 47 mm                                 |                           |
| Dimensions Container (W x H x D)   | 197 x 73 x 30 mm                              |                           |
| Ceiling cutout (Ø)                 | 68 mm                                         |                           |
| Min. installation depth            | 80 mm                                         |                           |
| Protection class                   | IP40                                          |                           |
| 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                   | –                                             | 1h / 3h / 8h              |
| Battery operation                  | –                                             | 1h / 3h / 8h              |
| Voltage supply                     | 230V 50/60Hz;<br>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             |
| 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



Attention: Minimum installation depth 80mm

|                                  |
|----------------------------------|
| Ceiling frame - Polycarbonate    |
| Universal cover plate            |
| 5lx-optics accessories-set       |
| Downlight-optics accessories-set |

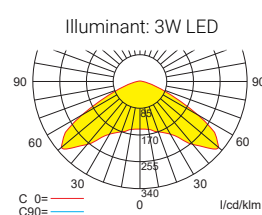
The following device boxes are compatible with the luminaire (not included in the scope of delivery)

| Type                                                      | Manufacturer | Manufacturer Art. No. | Remarks                                                                                   |
|-----------------------------------------------------------|--------------|-----------------------|-------------------------------------------------------------------------------------------|
| Concrete installation housings for on-side mixed concrete | KAISER       | 1281-00               | HALOX 100 with tunnel 190 KAISER Art. No. 1281-30 with e.g. cover KAISER Art. No. 1281-03 |
| Concrete installation housings for on-side mixed concrete | KAISER       | 1282-00               | HALOX 180 with tunnel 190 KAISER Art. No. 1282-30 with e.g. cover KAISER Art. No. 1282-10 |

A diagram of a room with a slanted ceiling. The room has two doors and a window on the right wall. The height of the room is labeled  $h$ . Four sound sources, represented by small clouds, are located on the slanted ceiling and are labeled  $a$ ,  $b$ ,  $c$ , and  $d$ . Arrows indicate the direction of sound propagation from each source.

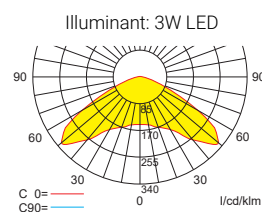
## Luminaires for central battery systems wide area optics

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



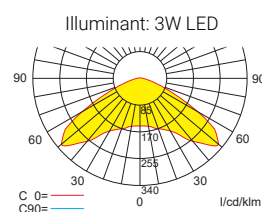
|   | Luminous flux emergency / mains: 280lm |       |       |       |       |       |       |       |       |       |      |      |
|---|----------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|
| h | 2.50                                   | 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 | 13.20 | 14.10 | 14.60 | 14.90 | 14.80 | 14.60 | 14.20 | 12.00 | 9.90 | 7.80 |
| b | 4.70                                   | 5.10  | 5.20  | 5.20  | 5.00  | 4.50  | 3.30  | 2.00  | 0.90  | 0.80  | 0.80 | 0.80 |
| c | 10.50                                  | 11.90 | 13.20 | 14.10 | 14.60 | 14.90 | 14.80 | 14.60 | 14.20 | 12.00 | 9.90 | 7.80 |
| d | 4.70                                   | 5.10  | 5.20  | 5.20  | 5.00  | 4.50  | 3.30  | 2.00  | 0.90  | 0.80  | 0.80 | 0.80 |

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



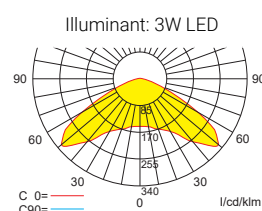
| Luminous flux emergency / mains: 280lm/120lm – <b>Battery duration: 1</b> |       |       |       |       |       |       |       |       |       |       |      |      |
|---------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|
| 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 | 13.20 | 14.10 | 14.60 | 14.90 | 14.80 | 14.60 | 14.20 | 12.00 | 9.90 | 7.80 |
| b                                                                         | 4.70  | 5.10  | 5.20  | 5.20  | 5.00  | 4.50  | 3.30  | 2.00  | 0.90  | 0.80  | 0.80 | 0.80 |
| c                                                                         | 10.50 | 11.90 | 13.20 | 14.10 | 14.60 | 14.90 | 14.80 | 14.60 | 14.20 | 12.00 | 9.90 | 7.80 |
| d                                                                         | 4.70  | 5.10  | 5.20  | 5.20  | 5.00  | 4.50  | 3.30  | 2.00  | 0.90  | 0.80  | 0.80 | 0.80 |

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



| Luminous flux emergency / mains: 280lm/120lm – <b>Battery duration: 3h</b> |       |       |       |       |       |       |       |       |       |       |      |      |
|----------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|
| 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 | 13.20 | 14.10 | 14.60 | 14.90 | 14.80 | 14.60 | 14.20 | 12.00 | 9.90 | 7.80 |
| b                                                                          | 4.70  | 5.10  | 5.20  | 5.20  | 5.00  | 4.50  | 3.30  | 2.00  | 0.90  | 0.80  | 0.80 | 0.80 |
| c                                                                          | 10.50 | 11.90 | 13.20 | 14.10 | 14.60 | 14.90 | 14.80 | 14.60 | 14.20 | 12.00 | 9.90 | 7.80 |
| d                                                                          | 4.70  | 5.10  | 5.20  | 5.20  | 5.00  | 4.50  | 3.30  | 2.00  | 0.90  | 0.80  | 0.80 | 0.80 |

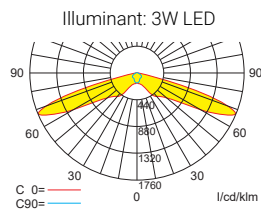
### Distance table for plane emergency routes / distance data in meters



| Luminous flux emergency / mains: 120lm/120lm – <b>Battery duration: 8h</b> |      |      |      |      |      |      |
|----------------------------------------------------------------------------|------|------|------|------|------|------|
| h                                                                          | 2.50 | 3.00 | 3.50 | 4.00 | 4.50 | 5.00 |
| a                                                                          | 9.00 | 9.60 | 9.70 | 9.50 | 7.70 | 6.00 |
| b                                                                          | 3.40 | 3.20 | 2.40 | 1.10 | 1.00 | 1.00 |
| c                                                                          | 9.00 | 9.60 | 9.70 | 9.50 | 7.70 | 6.00 |
| d                                                                          | 3.40 | 3.20 | 2.40 | 1.10 | 1.00 | 1.00 |

## Luminaires for central battery systems escape route optics

Distance table for plane emergency routes / distance data in meters

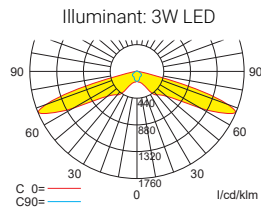


Luminous flux emergency / mains: 280lm

|   | 2.50  | 3.00  | 3.50  | 4.00  | 4.50  | 5.00  | 5.50  | 6.00  | 6.50  | 7.00  | 7.50  | 8.00  | 8.50  | 9.00 |
|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| 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  | 8.50  | 9.00 |
| a | 18.20 | 20.40 | 22.50 | 24.30 | 25.90 | 27.40 | 28.90 | 27.60 | 27.50 | 21.00 | 16.00 | 14.00 | 10.00 | 8.00 |
| b | 8.00  | 8.90  | 9.60  | 10.10 | 10.50 | 10.30 | 9.10  | 6.20  | 6.20  | 6.00  | 6.00  | 6.00  | 6.00  | 4.00 |
| c | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     | —    |
| d | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     | —    |

## Self contained luminaires escape route optics

Distance table for plane emergency routes / distance data in meters

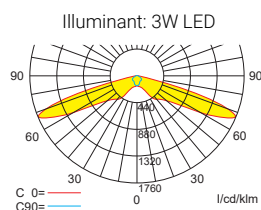


Luminous flux emergency / mains: 280lm/120lm – Battery duration: 1h

|   | 2.50  | 3.00  | 3.50  | 4.00  | 4.50  | 5.00  | 5.50  | 6.00  | 6.50  | 7.00  | 7.50  | 8.00  | 8.50  | 9.00 |
|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| 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  | 8.50  | 9.00 |
| a | 18.20 | 20.40 | 22.50 | 24.30 | 25.90 | 27.40 | 28.90 | 27.60 | 27.50 | 21.00 | 16.00 | 14.00 | 10.00 | 8.00 |
| b | 8.00  | 8.90  | 9.60  | 10.10 | 10.50 | 10.30 | 9.10  | 6.20  | 6.20  | 6.00  | 6.00  | 6.00  | 6.00  | 4.00 |
| c | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     | —    |
| d | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     | —    |

## Self contained luminaires escape route optics

Distance table for plane emergency routes / distance data in meters

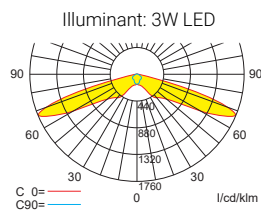


Luminous flux emergency / mains: 280lm/120lm – Battery duration: 3h

|   | 2.50  | 3.00  | 3.50  | 4.00  | 4.50  | 5.00  | 5.50  | 6.00  | 6.50  | 7.00  | 7.50  | 8.00  | 8.50  | 9.00 |
|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| 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  | 8.50  | 9.00 |
| a | 18.20 | 20.40 | 22.50 | 24.30 | 25.90 | 27.40 | 28.90 | 27.60 | 27.50 | 21.00 | 16.00 | 14.00 | 10.00 | 8.00 |
| b | 8.00  | 8.90  | 9.60  | 10.10 | 10.50 | 10.30 | 9.10  | 6.20  | 6.20  | 6.00  | 6.00  | 6.00  | 6.00  | 4.00 |
| c | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     | —    |
| d | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     | —    |

## Self contained luminaires escape route optics

Distance table for plane emergency routes / distance data in meters



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

|   | 2.50  | 3.00  | 3.50  | 4.00  | 4.50  | 5.00  |
|---|-------|-------|-------|-------|-------|-------|
| h | 2.50  | 3.00  | 3.50  | 4.00  | 4.50  | 5.00  |
| a | 15.50 | 17.10 | 18.60 | 18.00 | 12.00 | 10.00 |
| b | 6.60  | 7.00  | 6.90  | 4.30  | 4.00  | 3.00  |
| c | —     | —     | —     | —     | —     | —     |
| d | —     | —     | —     | —     | —     | —     |