



# PROTECT BEL-R DM

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

Safety luminaire with protection class IP65 made of polycarbonate with clear light cover and snap-in optics for escape route illumination for ceiling mounting.

For unprotected outdoor mounting we offer an accessory set with pressure equalization valve. In the versions with battery heating and external supply, the pressure equalization valve is always integrated in the luminaire.

The luminaire is optionally available as a set with supply unit for indoor installation and luminaire unit for outdoor installation.

Alternatively, the luminaire is available with heating container incl. battery 4.8V 4.2Ah for LED 3W and 6W (3h) / 6W (8h) to extend the temperature range to -20°C.

Optionally, the luminaire can be supplied as a central battery variant for a temperature range down to -35°C (unmonitored).



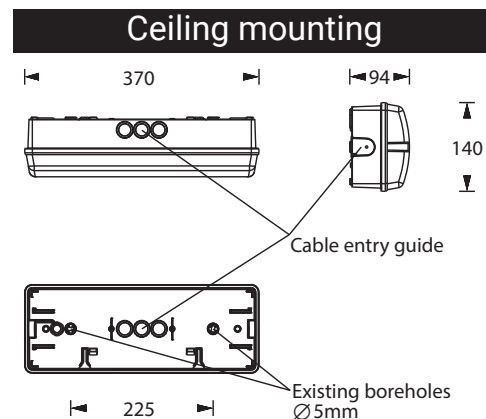
## Technical specifications

| Luminaire type                     | Luminaires for central battery systems                |                |                 | Self contained luminaires |                  |
|------------------------------------|-------------------------------------------------------|----------------|-----------------|---------------------------|------------------|
|                                    | 3 W<br>LED-bar                                        | 6 W<br>LED-bar | 10 W<br>LED-bar | 3 W<br>LED-bar            | 6 W<br>LED-bar   |
| Illuminant                         |                                                       |                |                 |                           |                  |
| Connecting terminals               | 2 x 2.5 mm <sup>2</sup> for double assignment         |                |                 |                           |                  |
| Colour                             | white                                                 |                |                 |                           |                  |
| Material                           | Polycarbonate (light cover clear)                     |                |                 |                           |                  |
| Mounting type                      | Ceiling mounting                                      |                |                 |                           |                  |
| Additional mounting types*         | Ceiling mounting (wire suspension), Pendulum mounting |                |                 |                           |                  |
| Dimensions (W x H x D)             | DM 370 x 140 x 93 mm                                  |                |                 |                           |                  |
| Protection class                   | IP65                                                  |                |                 |                           |                  |
| Safety class                       | II                                                    |                |                 |                           |                  |
| IK Safety class                    | IK08                                                  |                |                 |                           |                  |
| Light current (mains)              | 350 lm                                                | 600 lm         | 1050 lm         | 350 lm                    | 580 lm           |
| Light current (emergency)          |                                                       |                |                 |                           |                  |
| Battery duration 1h                | –                                                     | –              | –               | 350 lm                    | 580 lm           |
| Battery duration 3h                | –                                                     | –              | –               | 350 lm                    | 580 lm           |
| Battery duration 8h                | –                                                     | –              | –               | –                         | 320 lm           |
| Luminous flux                      |                                                       |                |                 |                           |                  |
| Emergency (DC) / mains             |                                                       |                |                 |                           |                  |
| Battery duration 1h                | –                                                     | –              | –               | 100% / 100%               | 100% / 100%      |
| Battery duration 3h                | –                                                     | –              | –               | 100% / 100%               | 100% / 100%      |
| Battery duration 8h                | –                                                     | –              | –               | –                         | 55% / 100%       |
| Power consumption                  | 6 VA                                                  | 10.3 VA        | 15 VA           | 6 VA                      | 11.5 VA          |
| Battery current input              | 19 mA                                                 | 27 mA          | 41 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                | 4,8V 2,0Ah       |
| Battery duration 3h                | –                                                     | –              | –               | 4,8V 4,2Ah                | 4,8V 4,2Ah       |
|                                    |                                                       |                |                 | 4,8V 4,2Ah + AkH          | 4,8V 4,2Ah + AkH |
| Battery duration 8h                | –                                                     | –              | –               | –                         | 4,8V 4,2Ah       |
|                                    |                                                       |                |                 |                           | 4,8V 4,2Ah + AkH |
| 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 | DALI<br>ELC<br>MSÜ3<br>SET009<br>SET010<br>SET010/025 |                |                 | –                         |                  |
| Self monitoring                    | –                                                     |                |                 | SELF CHECK                |                  |
| Central monitoring                 | –                                                     |                |                 | SAFELOG Line              |                  |
| Wireless monitoring                | –                                                     |                |                 | SAFELOG Wireless          |                  |

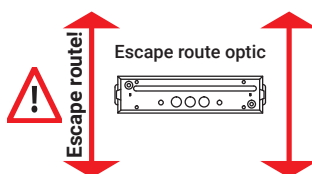
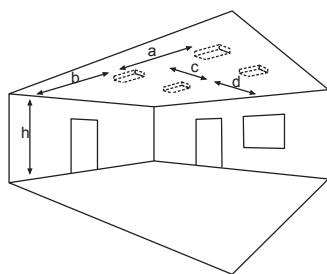
\* Optional accessory required

## Accessories

|                                        |
|----------------------------------------|
| Universal cover plate                  |
| Pressure compensation valve            |
| Pole and wall bracket                  |
| Double pendulum set with long canopy   |
| Central pendulum sets with long canopy |
| Central pendulum - Plastic             |
| Wire sets with long canopy             |
| Cable assembly set                     |



## Lighting data and tables of luminaire distances ( $E = 1,25 \text{ lx}$ )

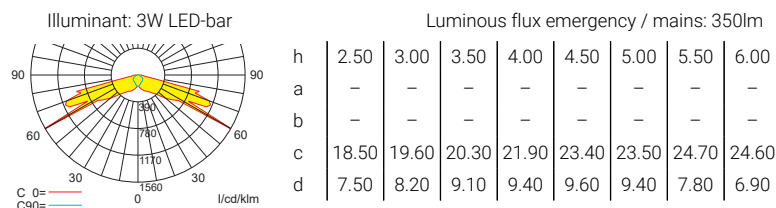


Ceiling mounting

Mounting direction

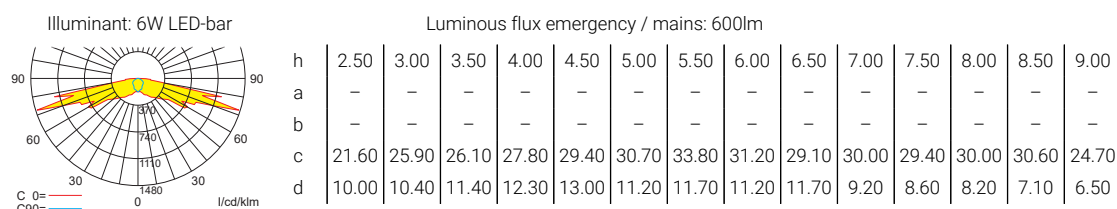
### Luminaires for central battery systems escape route optics

Distance table for plane emergency routes / distance data in meters



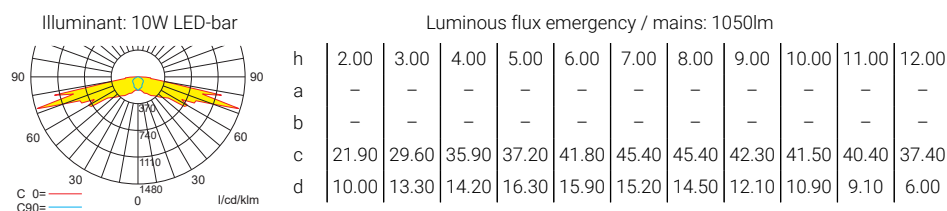
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Distance table for plane emergency routes / distance data in meters



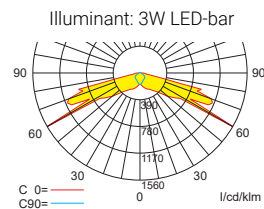
### Luminaires for central battery systems escape route optics

Distance table for plane emergency routes / distance data in meters



## Self contained luminaires escape route optics

Distance table for plane emergency routes / distance data in meters

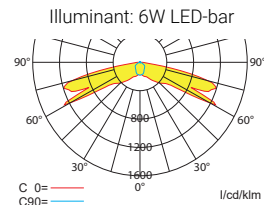


Luminous flux emergency / mains: 350lm/350lm – Battery duration: 1h

|   |       |       |       |       |       |       |       |       |
|---|-------|-------|-------|-------|-------|-------|-------|-------|
| h | 2.50  | 3.00  | 3.50  | 4.00  | 4.50  | 5.00  | 5.50  | 6.00  |
| a | –     | –     | –     | –     | –     | –     | –     | –     |
| b | –     | –     | –     | –     | –     | –     | –     | –     |
| c | 18.50 | 19.60 | 20.30 | 21.90 | 23.40 | 23.50 | 24.70 | 24.60 |
| d | 7.50  | 8.20  | 9.10  | 9.40  | 9.60  | 9.40  | 7.80  | 6.90  |

## Self contained luminaires escape route optics

Distance table for plane emergency routes / distance data in meters

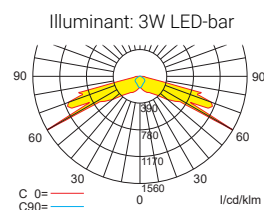


Luminous flux emergency / mains: 580lm/580lm – Battery duration: 1h

|   |       |       |       |       |       |       |       |       |
|---|-------|-------|-------|-------|-------|-------|-------|-------|
| h | 2.00  | 3.00  | 4.00  | 5.00  | 6.00  | 7.00  | 8.00  | 9.00  |
| a | –     | –     | –     | –     | –     | –     | –     | –     |
| b | –     | –     | –     | –     | –     | –     | –     | –     |
| c | 20.56 | 26.25 | 30.67 | 33.68 | 35.33 | 35.88 | 33.93 | 31.89 |
| d | 8.98  | 11.18 | 12.39 | 12.76 | 12.51 | 13.94 | 8.52  | 0.47  |

## Self contained luminaires escape route optics

Distance table for plane emergency routes / distance data in meters

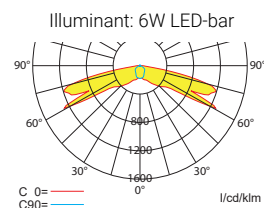


Luminous flux emergency / mains: 350lm/350lm – Battery duration: 3h

|   |       |       |       |       |       |       |       |       |
|---|-------|-------|-------|-------|-------|-------|-------|-------|
| h | 2.50  | 3.00  | 3.50  | 4.00  | 4.50  | 5.00  | 5.50  | 6.00  |
| a | –     | –     | –     | –     | –     | –     | –     | –     |
| b | –     | –     | –     | –     | –     | –     | –     | –     |
| c | 18.50 | 19.60 | 20.30 | 21.90 | 23.40 | 23.50 | 24.70 | 24.60 |
| d | 7.50  | 8.20  | 9.10  | 9.40  | 9.60  | 9.40  | 7.80  | 6.90  |

## Self contained luminaires escape route optics

Distance table for plane emergency routes / distance data in meters

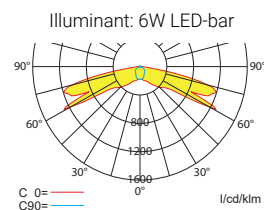


Luminous flux emergency / mains: 580lm/580lm – Battery duration: 3h

|   |       |       |       |       |       |       |       |       |
|---|-------|-------|-------|-------|-------|-------|-------|-------|
| h | 2.00  | 3.00  | 4.00  | 5.00  | 6.00  | 7.00  | 8.00  | 9.00  |
| a | –     | –     | –     | –     | –     | –     | –     | –     |
| b | –     | –     | –     | –     | –     | –     | –     | –     |
| c | 20.56 | 26.25 | 30.67 | 33.68 | 35.33 | 35.88 | 33.93 | 31.89 |
| d | 8.98  | 11.18 | 12.39 | 12.76 | 12.51 | 13.94 | 8.52  | 0.47  |

## Self contained luminaires escape route optics

Distance table for plane emergency routes / distance data in meters



Luminous flux emergency / mains: 320lm/580lm – Battery duration: 8h

|   |       |       |       |       |       |
|---|-------|-------|-------|-------|-------|
| h | 2.00  | 3.00  | 4.00  | 5.00  | 6.00  |
| a | –     | –     | –     | –     | –     |
| b | –     | –     | –     | –     | –     |
| c | 18.33 | 22.89 | 25.72 | 26.61 | 25.38 |
| d | 7.84  | 9.22  | 9.35  | 10.08 | 6.25  |