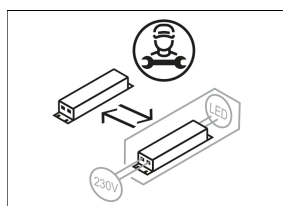
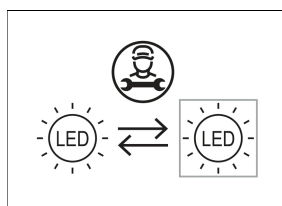
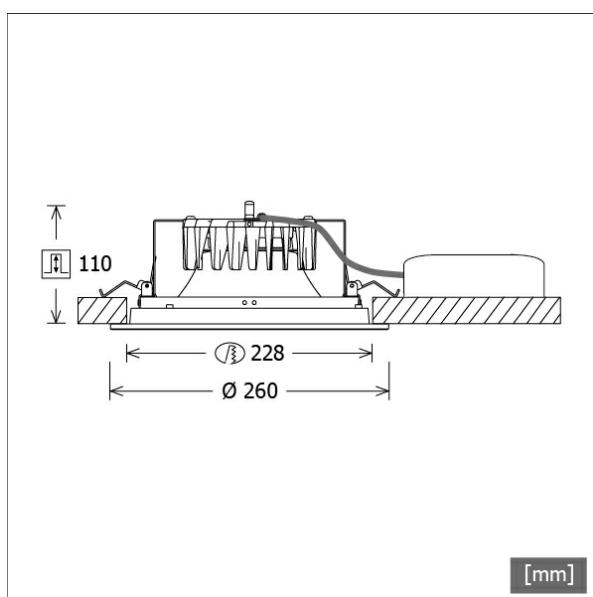


# CDL 40.1130.02/DALI



| Colours | Article no. | EAN           |
|---------|-------------|---------------|
| silver  | 660128      | 4043544689474 |
| white   | 660129      | 4043544689481 |



## Description

- recessed downlight for general lighting
- luminaire can be expanded with different optic decor rings and glasses
- outstanding ease of maintenance
- no UV and thermal emissions
- innovative thermal management with passive cooling (heat sink made from die-cast aluminium)
- specular aluminium reflector with precise symmetrical beam characteristic for high luminous efficiency and glare-free lighting
- front/recessed ring made from polycarbonate
- tool-free ceiling mounting via quick-action clamps (automatic adjustment of the ceiling thickness)
- connection to ballast via pre-fitted luminaire cable
- ballast (LED converter DALI, dimmable) included (external placement)

## Notes

concrete casting surround available on demand.

## Standard options



## Special options



## Lighting data / Norms

|                         |                                                           |
|-------------------------|-----------------------------------------------------------|
| Lamps                   | LED Modul / CRI 80 / 3000 K                               |
| EPREL light sources     | 891015                                                    |
| Lifetime                | L90 B50 50.000 h<br>L80 B50 100.000 h<br>L80 B20 50.000 h |
| System power            | 11.0 W                                                    |
| Luminaire luminous flux | max. 1110 lm                                              |
| System efficiency       | 95.45 lm/W                                                |
| Module efficiency       | 116.61 lm/W                                               |
| UGR class               | ≤22                                                       |
| Beam angle              | 73°                                                       |
| Supply voltage          | 220 - 240 V / 50 - 60 Hz                                  |
| Protection class        | III                                                       |
| Type of protection      | IP20                                                      |

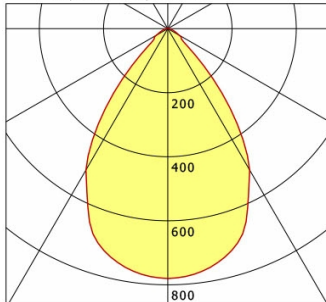
## Dimensions / Weights

|                   |                |
|-------------------|----------------|
| Outer diameter    | 260 mm         |
| Height            | 114 mm         |
| Cut-out (Ø)       | 228 mm         |
| Ceiling thickness | 10.0 - 35.0 mm |
| Recessed depth    | 110 mm         |
| Net weight        | 1.02 kg        |
| Gross weight      | 1.18 kg        |

# CDL 40.1130.02/DALI

Multi 40 (CDZ 4.63, 1xLED 11W 830/3000K 1050lm 73 °)

— C0/C180 cd / 1000 lm



|              | C0  | C90 | C180 | C270 |
|--------------|-----|-----|------|------|
| 0°           | 780 | 780 | 780  | 780  |
| 15°          | 728 | 728 | 728  | 728  |
| 30°          | 510 | 510 | 510  | 510  |
| 45°          | 140 | 140 | 140  | 140  |
| 60°          | 41  | 41  | 41   | 41   |
| 75°          | 14  | 14  | 14   | 14   |
| 90°          | 1   | 1   | 1    | 1    |
| cd / 1000 lm |     |     |      |      |

Offset [m] Cone width [m] Illuminance [lx]

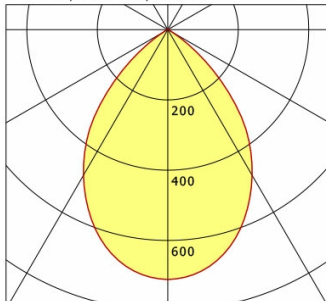
| Offset [m] | Cone width [m] | Illuminance [lx] |
|------------|----------------|------------------|
| 3.0        | 4.22           | 91.0             |
| 6.0        | 8.45           | 22.8             |
| 9.0        | 12.67          | 10.1             |
| 12.0       | 16.90          | 5.7              |
| 15.0       | 21.12          | 3.6              |

|                    |                  |
|--------------------|------------------|
| <b>η</b>           | LED              |
| Efficiency         | 95 lm/W          |
| Direct/Indirect    | ↓ 100% / ↑ 0%    |
| System Power       | 11 W             |
| <b>UGR</b>         | X=4H, Y=8H       |
| Reflection factors | 70/50/20         |
| UGR C0/C180        | 17.5             |
| UGR C90/C270       | 17.5             |
| CIE Flux Codes     | 82 95 99 100 100 |
| Ra/CRI             | >80              |

LTS

Multi 40 (CDZ 4.39, 1xLED 11W 830/3000K 1070lm 73 °)

— C0/C180 cd / 1000 lm



|              | C0  | C90 | C180 | C270 |
|--------------|-----|-----|------|------|
| 0°           | 711 | 711 | 711  | 711  |
| 15°          | 650 | 650 | 650  | 650  |
| 30°          | 479 | 479 | 479  | 479  |
| 45°          | 229 | 229 | 229  | 229  |
| 60°          | 16  | 16  | 16   | 16   |
| 75°          | 5   | 5   | 5    | 5    |
| 90°          | 0   | 0   | 0    | 0    |
| cd / 1000 lm |     |     |      |      |

Offset [m] Cone width [m] Illuminance [lx]

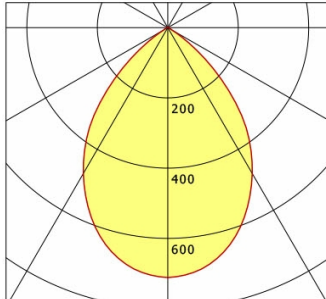
| Offset [m] | Cone width [m] | Illuminance [lx] |
|------------|----------------|------------------|
| 3.0        | 4.73           | 84.6             |
| 6.0        | 9.47           | 21.1             |
| 9.0        | 14.20          | 9.4              |
| 12.0       | 18.94          | 5.3              |
| 15.0       | 23.67          | 3.4              |

|                    |                   |
|--------------------|-------------------|
| <b>η</b>           | LED               |
| Efficiency         | 97 lm/W           |
| Direct/Indirect    | ↓ 100% / ↑ 0%     |
| System Power       | 11 W              |
| <b>UGR</b>         | X=4H, Y=8H        |
| Reflection factors | 70/50/20          |
| UGR C0/C180        | 17.5              |
| UGR C90/C270       | 17.5              |
| CIE Flux Codes     | 78 98 100 100 100 |
| Ra/CRI             | >80               |

LTS

Multi 40 (CDZ 4.62, 1xLED 11W 830/3000K 1080lm 73 °)

— C0/C180 cd / 1000 lm



|              | C0  | C90 | C180 | C270 |
|--------------|-----|-----|------|------|
| 0°           | 711 | 711 | 711  | 711  |
| 15°          | 650 | 650 | 650  | 650  |
| 30°          | 480 | 480 | 480  | 480  |
| 45°          | 230 | 230 | 230  | 230  |
| 60°          | 15  | 15  | 15   | 15   |
| 75°          | 5   | 5   | 5    | 5    |
| 90°          | 0   | 0   | 0    | 0    |
| cd / 1000 lm |     |     |      |      |

Offset [m] Cone width [m] Illuminance [lx]

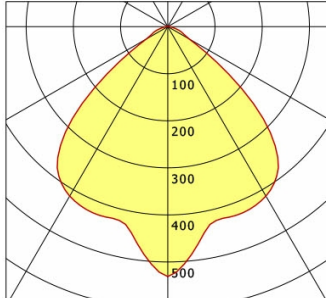
| Offset [m] | Cone width [m] | Illuminance [lx] |
|------------|----------------|------------------|
| 3.0        | 4.74           | 85.4             |
| 6.0        | 9.48           | 21.3             |
| 9.0        | 14.22          | 9.5              |
| 12.0       | 18.96          | 5.3              |
| 15.0       | 23.69          | 3.4              |

|                    |                   |
|--------------------|-------------------|
| <b>η</b>           | LED               |
| Efficiency         | 98 lm/W           |
| Direct/Indirect    | ↓ 100% / ↑ 0%     |
| System Power       | 11 W              |
| <b>UGR</b>         | X=4H, Y=8H        |
| Reflection factors | 70/50/20          |
| UGR C0/C180        | 17.5              |
| UGR C90/C270       | 17.5              |
| CIE Flux Codes     | 78 99 100 100 100 |
| Ra/CRI             | >80               |

LTS

Multi 40 (CDZ 4.60, 1xLED 11W 830/3000K 1050lm 73 °)

— C0/C180 cd / 1000 lm



|              | C0  | C90 | C180 | C270 |
|--------------|-----|-----|------|------|
| 0°           | 531 | 531 | 531  | 531  |
| 15°          | 424 | 424 | 424  | 424  |
| 30°          | 416 | 416 | 416  | 416  |
| 45°          | 297 | 297 | 297  | 297  |
| 60°          | 52  | 52  | 52   | 52   |
| 75°          | 18  | 18  | 18   | 18   |
| 90°          | 0   | 0   | 0    | 0    |
| cd / 1000 lm |     |     |      |      |

Offset [m] Cone width [m] Illuminance [lx]

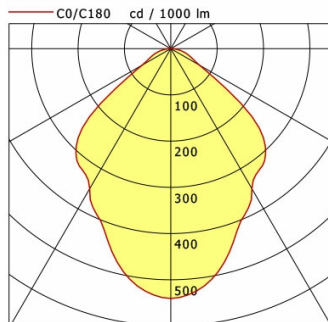
| Offset [m] | Cone width [m] | Illuminance [lx] |
|------------|----------------|------------------|
| 3.0        | 6.39           | 61.9             |
| 6.0        | 12.79          | 15.5             |
| 9.0        | 19.18          | 6.9              |
| 12.0       | 25.58          | 3.9              |
| 15.0       | 31.97          | 2.5              |

|                    |                  |
|--------------------|------------------|
| <b>η</b>           | LED              |
| Efficiency         | 95 lm/W          |
| Direct/Indirect    | ↓ 100% / ↑ 0%    |
| System Power       | 11 W             |
| <b>UGR</b>         | X=4H, Y=8H       |
| Reflection factors | 70/50/20         |
| UGR C0/C180        | 20.3             |
| UGR C90/C270       | 20.3             |
| CIE Flux Codes     | 65 94 99 100 100 |
| Ra/CRI             | >80              |

LTS

# CDL 40.1130.02/DALI

Multi 40 (CDZ 4.64, 1xLED 11W 830/3000K 1010lm 73 °)



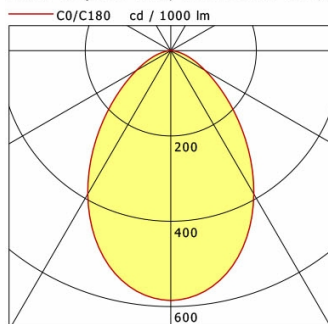
|     | C0  | C90 | C180 | C270 |
|-----|-----|-----|------|------|
| 0°  | 541 | 541 | 541  | 541  |
| 15° | 468 | 468 | 468  | 468  |
| 30° | 350 | 350 | 350  | 350  |
| 45° | 286 | 286 | 286  | 286  |
| 60° | 71  | 71  | 71   | 71   |
| 75° | 30  | 30  | 30   | 30   |
| 90° | 2   | 2   | 2    | 2    |

| Offset [m] | Cone width [m] | Illuminance [lx] |
|------------|----------------|------------------|
| 3.0        | 6.37           | 60.7             |
| 6.0        | 12.74          | 15.2             |
| 9.0        | 19.11          | 6.7              |
| 12.0       | 25.49          | 3.8              |
| 15.0       | 31.86          | 2.4              |

|                    |                  |
|--------------------|------------------|
| <b>η</b>           | LED              |
| Efficiency         | 92 lm/W          |
| Direct/Indirect    | ↓ 100% / ↑ 0%    |
| System Power       | 11 W             |
| <b>UGR</b>         | X=4H, Y=8H       |
| Reflection factors | 70/50/20         |
| UGR C0/C180        | 21.5             |
| UGR C90/C270       | 21.5             |
| CIE Flux Codes     | 60 90 98 100 100 |
| Ra/CRI             | >80              |

LTS

Multi 40 (CDZ 4.38, 1xLED 11W 830/3000K 1000lm 73 °)



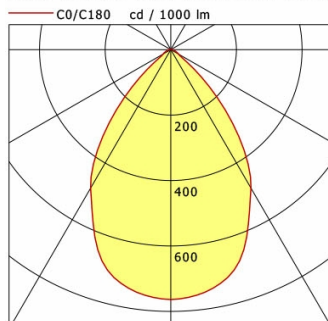
|     | C0  | C90 | C180 | C270 |
|-----|-----|-----|------|------|
| 0°  | 586 | 586 | 586  | 586  |
| 15° | 532 | 532 | 532  | 532  |
| 30° | 388 | 388 | 388  | 388  |
| 45° | 216 | 216 | 216  | 216  |
| 60° | 93  | 93  | 93   | 93   |
| 75° | 30  | 30  | 30   | 30   |
| 90° | 0   | 0   | 0    | 0    |

| Offset [m] | Cone width [m] | Illuminance [lx] |
|------------|----------------|------------------|
| 3.0        | 4.71           | 65.1             |
| 6.0        | 9.43           | 16.3             |
| 9.0        | 14.14          | 7.2              |
| 12.0       | 18.86          | 4.1              |
| 15.0       | 23.57          | 2.6              |

|                    |                  |
|--------------------|------------------|
| <b>η</b>           | LED              |
| Efficiency         | 91 lm/W          |
| Direct/Indirect    | ↓ 100% / ↑ 0%    |
| System Power       | 11 W             |
| <b>UGR</b>         | X=4H, Y=8H       |
| Reflection factors | 70/50/20         |
| UGR C0/C180        | 21.3             |
| UGR C90/C270       | 21.3             |
| CIE Flux Codes     | 64 89 98 100 100 |
| Ra/CRI             | >80              |

LTS

Multi 40 (CDZ 4.35, 1xLED 11W 830/3000K 1080lm 73 °)



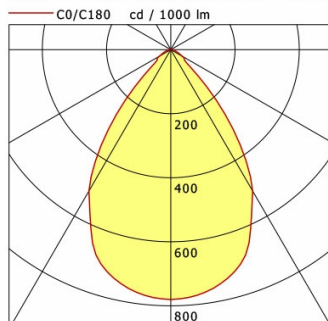
|     | C0  | C90 | C180 | C270 |
|-----|-----|-----|------|------|
| 0°  | 764 | 764 | 764  | 764  |
| 15° | 710 | 710 | 710  | 710  |
| 30° | 489 | 489 | 489  | 489  |
| 45° | 184 | 184 | 184  | 184  |
| 60° | 27  | 27  | 27   | 27   |
| 75° | 12  | 12  | 12   | 12   |
| 90° | 0   | 0   | 0    | 0    |

| Offset [m] | Cone width [m] | Illuminance [lx] |
|------------|----------------|------------------|
| 3.0        | 4.34           | 91.6             |
| 6.0        | 8.69           | 22.9             |
| 9.0        | 13.03          | 10.2             |
| 12.0       | 17.38          | 5.7              |
| 15.0       | 21.72          | 3.7              |

|                    |                  |
|--------------------|------------------|
| <b>η</b>           | LED              |
| Efficiency         | 98 lm/W          |
| Direct/Indirect    | ↓ 100% / ↑ 0%    |
| System Power       | 11 W             |
| <b>UGR</b>         | X=4H, Y=8H       |
| Reflection factors | 70/50/20         |
| UGR C0/C180        | 17.5             |
| UGR C90/C270       | 17.5             |
| CIE Flux Codes     | 80 96 99 100 100 |
| Ra/CRI             | >80              |

LTS

Multi 40 (CDZ 4.08, 1xLED 11W 830/3000K 1050lm 73 °)



|     | C0  | C90 | C180 | C270 |
|-----|-----|-----|------|------|
| 0°  | 780 | 780 | 780  | 780  |
| 15° | 728 | 728 | 728  | 728  |
| 30° | 510 | 510 | 510  | 510  |
| 45° | 140 | 140 | 140  | 140  |
| 60° | 41  | 41  | 41   | 41   |
| 75° | 14  | 14  | 14   | 14   |
| 90° | 1   | 1   | 1    | 1    |

| Offset [m] | Cone width [m] | Illuminance [lx] |
|------------|----------------|------------------|
| 3.0        | 4.22           | 91.0             |
| 6.0        | 8.45           | 22.8             |
| 9.0        | 12.67          | 10.1             |
| 12.0       | 16.90          | 5.7              |
| 15.0       | 21.12          | 3.6              |

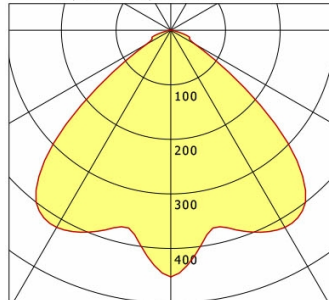
|                    |                  |
|--------------------|------------------|
| <b>η</b>           | LED              |
| Efficiency         | 95 lm/W          |
| Direct/Indirect    | ↓ 100% / ↑ 0%    |
| System Power       | 11 W             |
| <b>UGR</b>         | X=4H, Y=8H       |
| Reflection factors | 70/50/20         |
| UGR C0/C180        | 17.5             |
| UGR C90/C270       | 17.5             |
| CIE Flux Codes     | 82 95 99 100 100 |
| Ra/CRI             | >80              |

LTS

# CDL 40.1130.02/DALI

Multi 40 (CDZ 4.01, 1xLED 11W 830/3000K 900lm 73 °)

C0/C180 cd / 1000 lm



|     | C0  | C90 | C180 | C270 |
|-----|-----|-----|------|------|
| 0°  | 452 | 452 | 452  | 452  |
| 15° | 374 | 374 | 374  | 374  |
| 30° | 417 | 417 | 417  | 417  |
| 45° | 316 | 316 | 316  | 316  |
| 60° | 51  | 51  | 51   | 51   |
| 75° | 20  | 20  | 20   | 20   |
| 90° | 0   | 0   | 0    | 0    |

cd / 1000 lm

Offset [m] Cone width [m] Illuminance [lx]

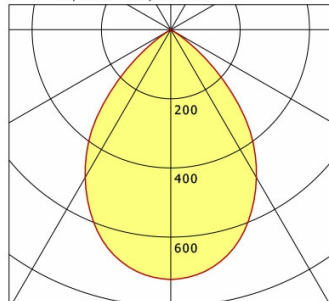
| Offset [m] | Cone width [m] | Illuminance [lx] |
|------------|----------------|------------------|
| 3.0        | 7.01           | 45.2             |
| 6.0        | 14.02          | 11.3             |
| 9.0        | 21.02          | 5.0              |
| 12.0       | 28.03          | 2.8              |
| 15.0       | 35.04          | 1.8              |

|                    |                  |
|--------------------|------------------|
| <b>η</b>           | LED              |
| Efficiency         | 82 lm/W          |
| Direct/Indirect    | ↓ 100% / ↑ 0%    |
| System Power       | 11 W             |
| <b>UGR</b>         | X=4H, Y=8H       |
| Reflection factors | 70/50/20         |
| UGR C0/C180        | 20.1             |
| UGR C90/C270       | 20.1             |
| CIE Flux Codes     | 63 94 99 100 100 |
| Ra/CRI             | >80              |

LTS

Multi 40 (CDL ohne Dekor, 1xLED 11W 830/3000K 1110lm 73 °)

C0/C180 cd / 1000 lm



|     | C0  | C90 | C180 | C270 |
|-----|-----|-----|------|------|
| 0°  | 723 | 723 | 723  | 723  |
| 15° | 666 | 666 | 666  | 666  |
| 30° | 494 | 494 | 494  | 494  |
| 45° | 231 | 231 | 231  | 231  |
| 60° | 4   | 4   | 4    | 4    |
| 75° | 0   | 0   | 0    | 0    |
| 90° | 0   | 0   | 0    | 0    |

cd / 1000 lm

Offset [m] Cone width [m] Illuminance [lx]

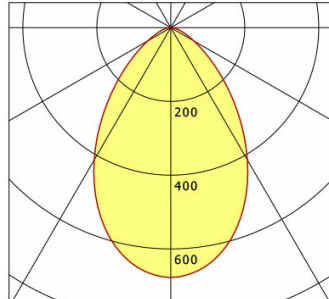
| Offset [m] | Cone width [m] | Illuminance [lx] |
|------------|----------------|------------------|
| 3.0        | 4.77           | 89.1             |
| 6.0        | 9.54           | 22.3             |
| 9.0        | 14.32          | 9.9              |
| 12.0       | 19.09          | 5.6              |
| 15.0       | 23.86          | 3.6              |

|                    |                    |
|--------------------|--------------------|
| <b>η</b>           | LED                |
| Efficiency         | 101 lm/W           |
| Direct/Indirect    | ↓ 100% / ↑ 0%      |
| System Power       | 11 W               |
| <b>UGR</b>         | X=4H, Y=8H         |
| Reflection factors | 70/50/20           |
| UGR C0/C180        | 17.5               |
| UGR C90/C270       | 17.5               |
| CIE Flux Codes     | 80 100 100 100 100 |
| Ra/CRI             | >80                |

LTS

Multi 40 (CDZ 4.61, 1xLED 11W 830/3000K 1060lm 73 °)

C0/C180 cd / 1000 lm



|     | C0  | C90 | C180 | C270 |
|-----|-----|-----|------|------|
| 0°  | 678 | 678 | 678  | 678  |
| 15° | 604 | 604 | 604  | 604  |
| 30° | 414 | 414 | 414  | 414  |
| 45° | 203 | 203 | 203  | 203  |
| 60° | 72  | 72  | 72   | 72   |
| 75° | 22  | 22  | 22   | 22   |
| 90° | 1   | 1   | 1    | 1    |

cd / 1000 lm

Offset [m] Cone width [m] Illuminance [lx]

| Offset [m] | Cone width [m] | Illuminance [lx] |
|------------|----------------|------------------|
| 3.0        | 4.21           | 79.8             |
| 6.0        | 8.42           | 20.0             |
| 9.0        | 12.64          | 8.9              |
| 12.0       | 16.85          | 5.0              |
| 15.0       | 21.06          | 3.2              |

|                    |                  |
|--------------------|------------------|
| <b>η</b>           | LED              |
| Efficiency         | 96 lm/W          |
| Direct/Indirect    | ↓ 100% / ↑ 0%    |
| System Power       | 11 W             |
| <b>UGR</b>         | X=4H, Y=8H       |
| Reflection factors | 70/50/20         |
| UGR C0/C180        | 20.2             |
| UGR C90/C270       | 20.2             |
| CIE Flux Codes     | 69 92 98 100 100 |
| Ra/CRI             | >80              |

LTS

# CDL 40.1130.02/DALI

## Accessories



**CDZ 4.01**  
partly frosted glass pane  
(inside)



**CDZ 4.08**  
satinated glass ring  
(protruding)



**CDZ 4.35**  
frosted decorative glass ring  
(inside)



**CDZ 4.38**  
satinated glass pane  
(inside)



**CDZ 4.39**  
clear glass pane  
(inside)



**CDZ 4.60**  
partly frosted acrylic glass pane  
(inside)



**CDZ 4.61**  
frosted acrylic glass pane  
(inside)



**CDZ 4.62**  
clear acrylic glass pane  
(inside)



**CDZ 4.63**  
frosted acrylic glass ring  
(protruding)



**CDZ 4.64**  
acrylic glass pane frosted in centre  
(protruding)



**NOL 50B/3H/DALI**  
LED emergency light-unit



**ZVP 100**  
universal reinforcement frame  
(module 625 x 625)