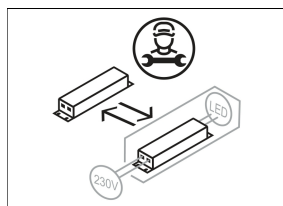
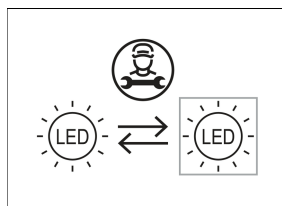
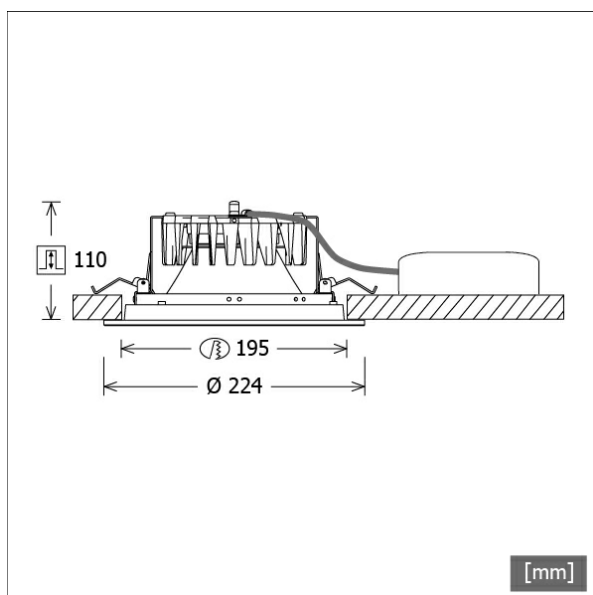


# CDL 30.1140.02



| Colours | Article no. | EAN           |
|---------|-------------|---------------|
| silver  | 660082      | 4043544689016 |
| white   | 660083      | 4043544689023 |



## 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) included (external placement)

## Notes

concrete casting surround available on demand.

## Standard options



## Special options



## Lighting data / Norms

|                         |                                                           |
|-------------------------|-----------------------------------------------------------|
| Lamps                   | LED Modul / CRI 80 / 4000 K                               |
| EPREL light sources     | 891017                                                    |
| 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. 1130 lm                                              |
| System efficiency       | 102.72 lm/W                                               |
| Module efficiency       | 122.35 lm/W                                               |
| UGR class               | ≤22                                                       |
| Beam angle              | 75°                                                       |
| Supply voltage          | 220 - 240 V / 50 - 60 Hz                                  |
| Protection class        | III                                                       |
| Type of protection      | IP20                                                      |

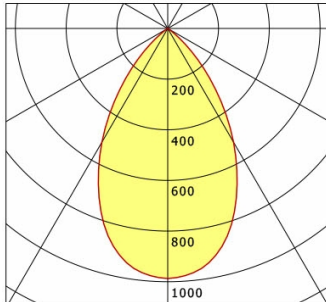
## Dimensions / Weights

|                   |                |
|-------------------|----------------|
| Outer diameter    | 224 mm         |
| Height            | 113 mm         |
| Cut-out (Ø)       | 195 mm         |
| Ceiling thickness | 10.0 - 35.0 mm |
| Recessed depth    | 110 mm         |
| Net weight        | 0.95 kg        |
| Gross weight      | 1.00 kg        |

# CDL 30.1140.02

Multi 30 (CDL ohne Dekor, 1xLED 11W 840/4000K 1130lm 75 °)

— C0/C180 cd / 1000 lm



|     | C0  | C90 | C180 | C270 |
|-----|-----|-----|------|------|
| 0°  | 987 | 987 | 987  | 987  |
| 15° | 870 | 870 | 870  | 870  |
| 30° | 519 | 519 | 519  | 519  |
| 45° | 149 | 149 | 149  | 149  |
| 60° | 0   | 0   | 0    | 0    |
| 75° | 0   | 0   | 0    | 0    |
| 90° | 0   | 0   | 0    | 0    |

cd / 1000 lm

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

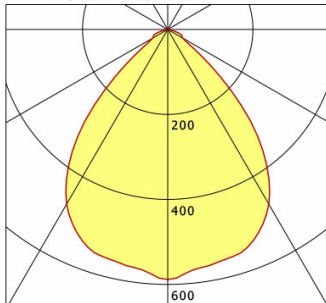
| Offset [m] | Cone width [m] | Illuminance [lx] |
|------------|----------------|------------------|
| 3.0        | 3.60           | 124.0            |
| 6.0        | 7.19           | 31.0             |
| 9.0        | 10.79          | 13.8             |
| 12.0       | 14.38          | 7.7              |
| 15.0       | 17.98          | 5.0              |

|                    |                    |
|--------------------|--------------------|
| <b>η</b>           | LED                |
| Efficiency         | 103 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        | 16.6               |
| UGR C90/C270       | 16.6               |
| CIE Flux Codes     | 89 100 100 100 100 |
| Ra/CRI             | >80                |

LTS

Multi 30 (CDZ 3.01, 1xLED 11W 840/4000K 970lm 75 °)

— C0/C180 cd / 1000 lm



|     | C0  | C90 | C180 | C270 |
|-----|-----|-----|------|------|
| 0°  | 588 | 588 | 588  | 588  |
| 15° | 557 | 557 | 557  | 557  |
| 30° | 475 | 475 | 475  | 475  |
| 45° | 228 | 228 | 228  | 228  |
| 60° | 40  | 40  | 40   | 40   |
| 75° | 17  | 17  | 17   | 17   |
| 90° | 0   | 0   | 0    | 0    |

cd / 1000 lm

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

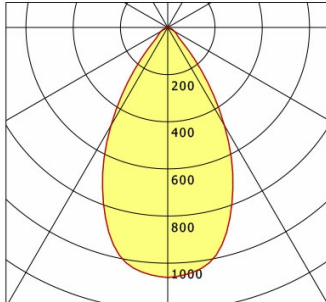
| Offset [m] | Cone width [m] | Illuminance [lx] |
|------------|----------------|------------------|
| 3.0        | 5.37           | 63.4             |
| 6.0        | 10.74          | 15.9             |
| 9.0        | 16.10          | 7.0              |
| 12.0       | 21.47          | 4.0              |
| 15.0       | 26.84          | 2.5              |

|                    |                  |
|--------------------|------------------|
| <b>η</b>           | LED              |
| Efficiency         | 88 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     | 74 94 99 100 100 |
| Ra/CRI             | >80              |

LTS

Multi 30 (CDZ 3.08, 1xLED 11W 840/4000K 1090lm 75 °)

— C0/C180 cd / 1000 lm



|     | C0   | C90  | C180 | C270 |
|-----|------|------|------|------|
| 0°  | 1061 | 1061 | 1061 | 1061 |
| 15° | 928  | 928  | 928  | 928  |
| 30° | 480  | 480  | 480  | 480  |
| 45° | 83   | 83   | 83   | 83   |
| 60° | 32   | 32   | 32   | 32   |
| 75° | 12   | 12   | 12   | 12   |
| 90° | 1    | 1    | 1    | 1    |

cd / 1000 lm

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

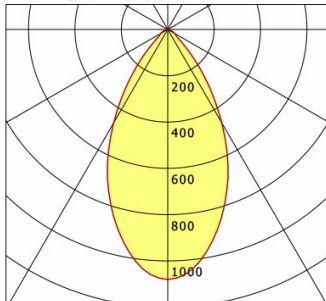
| Offset [m] | Cone width [m] | Illuminance [lx] |
|------------|----------------|------------------|
| 3.0        | 3.26           | 128.5            |
| 6.0        | 6.52           | 32.1             |
| 9.0        | 9.78           | 14.3             |
| 12.0       | 13.03          | 8.0              |
| 15.0       | 16.29          | 5.1              |

|                    |                  |
|--------------------|------------------|
| <b>η</b>           | LED              |
| Efficiency         | 99 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     | 86 96 99 100 100 |
| Ra/CRI             | >80              |

LTS

Multi 30 (CDZ 3.35, 1xLED 11W 840/4000K 1100lm 75 °)

— C0/C180 cd / 1000 lm



|     | C0   | C90  | C180 | C270 |
|-----|------|------|------|------|
| 0°  | 1080 | 1080 | 1080 | 1080 |
| 15° | 867  | 867  | 867  | 867  |
| 30° | 466  | 466  | 466  | 466  |
| 45° | 115  | 115  | 115  | 115  |
| 60° | 34   | 34   | 34   | 34   |
| 75° | 15   | 15   | 15   | 15   |
| 90° | 0    | 0    | 0    | 0    |

cd / 1000 lm

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

| Offset [m] | Cone width [m] | Illuminance [lx] |
|------------|----------------|------------------|
| 3.0        | 3.11           | 132.0            |
| 6.0        | 6.23           | 33.0             |
| 9.0        | 9.34           | 14.7             |
| 12.0       | 12.46          | 8.3              |
| 15.0       | 15.57          | 5.3              |

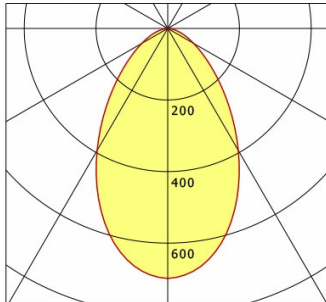
|                    |                  |
|--------------------|------------------|
| <b>η</b>           | LED              |
| Efficiency         | 100 lm/W         |
| Direct/Indirect    | ↓ 100% / ↑ 0%    |
| System Power       | 11 W             |
| <b>UGR</b>         | X=4H, Y=8H       |
| Reflection factors | 70/50/20         |
| UGR C0/C180        | 18.4             |
| UGR C90/C270       | 18.4             |
| CIE Flux Codes     | 84 95 99 100 100 |
| Ra/CRI             | >80              |

LTS

# CDL 30.1140.02

Multi 30 (CDZ 3.38, 1xLED 11W 840/4000K 1020lm 75 °)

— C0/C180 cd / 1000 lm



|     | C0  | C90 | C180 | C270 |
|-----|-----|-----|------|------|
| 0°  | 699 | 699 | 699  | 699  |
| 15° | 607 | 607 | 607  | 607  |
| 30° | 394 | 394 | 394  | 394  |
| 45° | 196 | 196 | 196  | 196  |
| 60° | 84  | 84  | 84   | 84   |
| 75° | 28  | 28  | 28   | 28   |
| 90° | 0   | 0   | 0    | 0    |

cd / 1000 lm

| Offset [m] | Cone width [m] | Illuminance [lx] |
|------------|----------------|------------------|
| 3.0        | 3.89           | 79.2             |
| 6.0        | 7.78           | 19.8             |
| 9.0        | 11.67          | 8.8              |
| 12.0       | 15.57          | 5.0              |
| 15.0       | 19.46          | 3.2              |

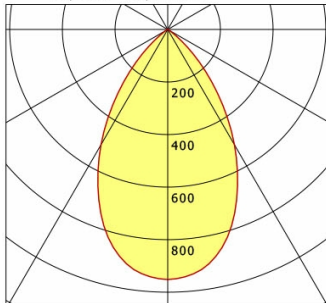
— C0-C180 Plane

|                    |                  |
|--------------------|------------------|
| <b>η</b>           | LED              |
| Efficiency         | 93 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        | 22.2             |
| UGR C90/C270       | 22.2             |
| CIE Flux Codes     | 67 90 98 100 100 |
| Ra/CRI             | >80              |

LTS

Multi 30 (CDZ 3.39, 1xLED 11W 840/4000K 1090lm 75 °)

— C0/C180 cd / 1000 lm



|     | C0  | C90 | C180 | C270 |
|-----|-----|-----|------|------|
| 0°  | 952 | 952 | 952  | 952  |
| 15° | 839 | 839 | 839  | 839  |
| 30° | 507 | 507 | 507  | 507  |
| 45° | 154 | 154 | 154  | 154  |
| 60° | 7   | 7   | 7    | 7    |
| 75° | 4   | 4   | 4    | 4    |
| 90° | 0   | 0   | 0    | 0    |

cd / 1000 lm

| Offset [m] | Cone width [m] | Illuminance [lx] |
|------------|----------------|------------------|
| 3.0        | 3.64           | 115.3            |
| 6.0        | 7.28           | 28.8             |
| 9.0        | 10.91          | 12.8             |
| 12.0       | 14.55          | 7.2              |
| 15.0       | 18.19          | 4.6              |

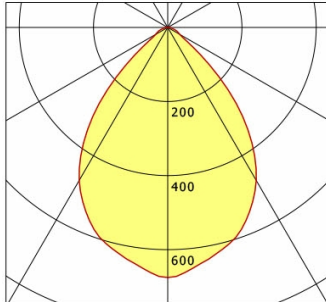
— C0-C180 Plane

|                    |                   |
|--------------------|-------------------|
| <b>η</b>           | LED               |
| Efficiency         | 99 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        | 16.8              |
| UGR C90/C270       | 16.8              |
| CIE Flux Codes     | 87 99 100 100 100 |
| Ra/CRI             | >80               |

LTS

Multi 30 (CDZ 3.60, 1xLED 11W 840/4000K 1080lm 75 °)

— C0/C180 cd / 1000 lm



|     | C0  | C90 | C180 | C270 |
|-----|-----|-----|------|------|
| 0°  | 675 | 675 | 675  | 675  |
| 15° | 611 | 611 | 611  | 611  |
| 30° | 477 | 477 | 477  | 477  |
| 45° | 213 | 213 | 213  | 213  |
| 60° | 38  | 38  | 38   | 38   |
| 75° | 16  | 16  | 16   | 16   |
| 90° | 0   | 0   | 0    | 0    |

cd / 1000 lm

| Offset [m] | Cone width [m] | Illuminance [lx] |
|------------|----------------|------------------|
| 3.0        | 4.81           | 81.0             |
| 6.0        | 9.63           | 20.3             |
| 9.0        | 14.44          | 9.0              |
| 12.0       | 19.25          | 5.1              |
| 15.0       | 24.06          | 3.2              |

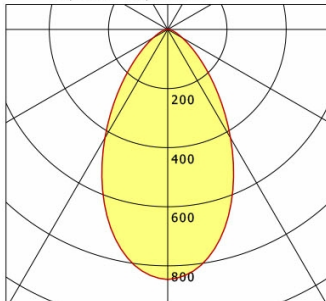
— C0-C180 Plane

|                    |                  |
|--------------------|------------------|
| <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        | 19.9             |
| UGR C90/C270       | 19.9             |
| CIE Flux Codes     | 76 95 99 100 100 |
| Ra/CRI             | >80              |

LTS

Multi 30 (CDZ 3.61, 1xLED 11W 840/4000K 1090lm 75 °)

— C0/C180 cd / 1000 lm



|     | C0  | C90 | C180 | C270 |
|-----|-----|-----|------|------|
| 0°  | 846 | 846 | 846  | 846  |
| 15° | 715 | 715 | 715  | 715  |
| 30° | 424 | 424 | 424  | 424  |
| 45° | 175 | 175 | 175  | 175  |
| 60° | 57  | 57  | 57   | 57   |
| 75° | 18  | 18  | 18   | 18   |
| 90° | 0   | 0   | 0    | 0    |

cd / 1000 lm

| Offset [m] | Cone width [m] | Illuminance [lx] |
|------------|----------------|------------------|
| 3.0        | 3.47           | 102.5            |
| 6.0        | 6.94           | 25.6             |
| 9.0        | 10.41          | 11.4             |
| 12.0       | 13.89          | 6.4              |
| 15.0       | 17.36          | 4.1              |

— C0-C180 Plane

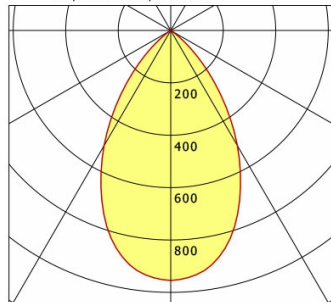
|                    |                  |
|--------------------|------------------|
| <b>η</b>           | LED              |
| Efficiency         | 99 lm/W          |
| Direct/Indirect    | ↓ 100% / ↑ 0%    |
| System Power       | 11 W             |
| <b>UGR</b>         | X=4H, Y=8H       |
| Reflection factors | 70/50/20         |
| UGR C0/C180        | 20.3             |
| UGR C90/C270       | 20.3             |
| CIE Flux Codes     | 75 94 99 100 100 |
| Ra/CRI             | >80              |

LTS

# CDL 30.1140.02

Multi 30 (CDZ 3.62, 1xLED 11W 840/4000K 1110lm 75 °)

— C0/C180 cd / 1000 lm



|     | C0  | C90 | C180 | C270 |
|-----|-----|-----|------|------|
| 0°  | 955 | 955 | 955  | 955  |
| 15° | 841 | 841 | 841  | 841  |
| 30° | 508 | 508 | 508  | 508  |
| 45° | 153 | 153 | 153  | 153  |
| 60° | 7   | 7   | 7    | 7    |
| 75° | 4   | 4   | 4    | 4    |
| 90° | 0   | 0   | 0    | 0    |

cd / 1000 lm

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

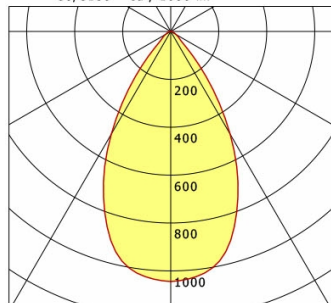
| Offset [m] | Cone width [m] | Illuminance [lx] |
|------------|----------------|------------------|
| 3.0        | 3.63           | 117.7            |
| 6.0        | 7.27           | 29.4             |
| 9.0        | 10.90          | 13.1             |
| 12.0       | 14.54          | 7.4              |
| 15.0       | 18.17          | 4.7              |

|                    |                   |
|--------------------|-------------------|
| <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        | 16.9              |
| UGR C90/C270       | 16.9              |
| CIE Flux Codes     | 87 99 100 100 100 |
| Ra/CRI             | >80               |

LTS

Multi 30 (CDZ 3.63, 1xLED 11W 840/4000K 1100lm 75 °)

— C0/C180 cd / 1000 lm



|     | C0   | C90  | C180 | C270 |
|-----|------|------|------|------|
| 0°  | 1044 | 1044 | 1044 | 1044 |
| 15° | 929  | 929  | 929  | 929  |
| 30° | 495  | 495  | 495  | 495  |
| 45° | 84   | 84   | 84   | 84   |
| 60° | 26   | 26   | 26   | 26   |
| 75° | 10   | 10   | 10   | 10   |
| 90° | 1    | 1    | 1    | 1    |

cd / 1000 lm

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

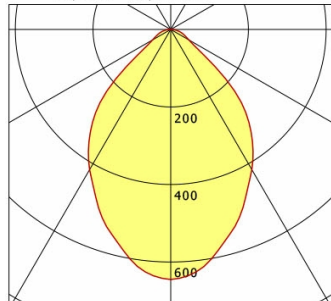
| Offset [m] | Cone width [m] | Illuminance [lx] |
|------------|----------------|------------------|
| 3.0        | 3.35           | 127.6            |
| 6.0        | 6.71           | 31.9             |
| 9.0        | 10.06          | 14.2             |
| 12.0       | 13.41          | 8.0              |
| 15.0       | 16.76          | 5.1              |

|                    |                  |
|--------------------|------------------|
| <b>η</b>           | LED              |
| Efficiency         | 100 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        | 16.9             |
| UGR C90/C270       | 16.9             |
| CIE Flux Codes     | 88 97 99 100 100 |
| Ra/CRI             | >80              |

LTS

Multi 30 (CDZ 3.64, 1xLED 11W 840/4000K 1040lm 75 °)

— C0/C180 cd / 1000 lm



|     | C0  | C90 | C180 | C270 |
|-----|-----|-----|------|------|
| 0°  | 645 | 645 | 645  | 645  |
| 15° | 558 | 558 | 558  | 558  |
| 30° | 418 | 418 | 418  | 418  |
| 45° | 246 | 246 | 246  | 246  |
| 60° | 54  | 54  | 54   | 54   |
| 75° | 26  | 26  | 26   | 26   |
| 90° | 2   | 2   | 2    | 2    |

cd / 1000 lm

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

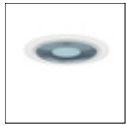
| Offset [m] | Cone width [m] | Illuminance [lx] |
|------------|----------------|------------------|
| 3.0        | 4.89           | 74.6             |
| 6.0        | 9.78           | 18.6             |
| 9.0        | 14.67          | 8.3              |
| 12.0       | 19.56          | 4.7              |
| 15.0       | 24.45          | 3.0              |

|                    |                  |
|--------------------|------------------|
| <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        | 21.6             |
| UGR C90/C270       | 21.6             |
| CIE Flux Codes     | 69 92 98 100 100 |
| Ra/CRI             | >80              |

LTS

# CDL 30.1140.02

## Accessories



**CDZ 3.01**  
partly frosted glass pane  
(inside)



**CDZ 3.08**  
satinated glass ring  
(protruding)



**CDZ 3.35**  
frosted decorative glass ring  
(inside)



**CDZ 3.38**  
satinated glass pane  
(inside)



**CDZ 3.39**  
clear glass pane  
(inside)



**CDZ 3.60**  
partly frosted acrylic glass pane  
(inside)



**CDZ 3.61**  
frosted acrylic glass pane  
(inside)



**CDZ 3.62**  
clear acrylic glass pane  
(inside)



**CDZ 3.63**  
frosted acrylic glass ring  
(protruding)



**CDZ 3.64**  
acrylic glass pane frosted in centre  
(protruding)



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



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