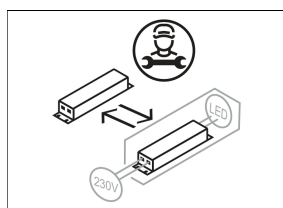
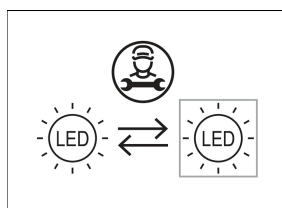
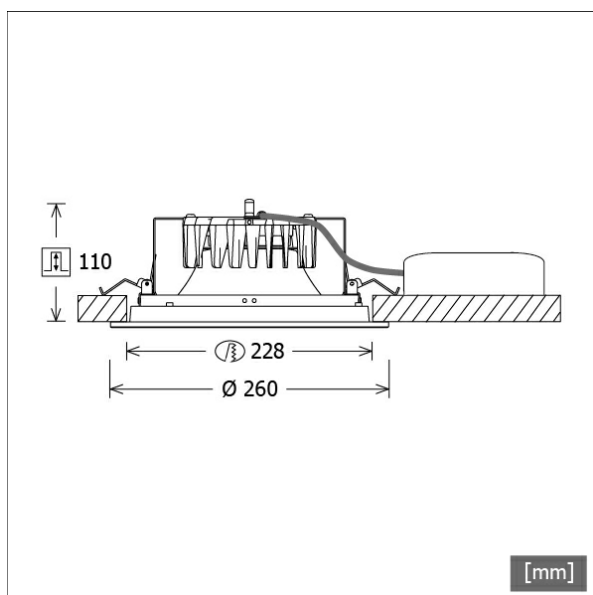


# CDL 40.3030.02



| Colours | Article no. | EAN           |
|---------|-------------|---------------|
| silver  | 660142      | 4043544689610 |
| white   | 660143      | 4043544689627 |



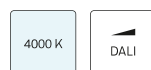
## Description

- 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

|                                |                                                           |
|--------------------------------|-----------------------------------------------------------|
| <b>Lamps</b>                   | LED Modul / CRI 80 / 3000 K                               |
| <b>EPREL light sources</b>     | 891018                                                    |
| <b>Lifetime</b>                | L90 B50 50.000 h<br>L80 B50 100.000 h<br>L80 B20 50.000 h |
| <b>System power</b>            | 28.0 W                                                    |
| <b>Luminaire luminous flux</b> | max. 2990 lm                                              |
| <b>System efficiency</b>       | 101.78 lm/W                                               |
| <b>Module efficiency</b>       | 119.10 lm/W                                               |
| <b>UGR class</b>               | ≤28                                                       |
| <b>Beam angle</b>              | 73°                                                       |
| <b>Supply voltage</b>          | 220 - 240 V / 50 - 60 Hz                                  |
| <b>Protection class</b>        | III                                                       |
| <b>Type of protection</b>      | IP20                                                      |

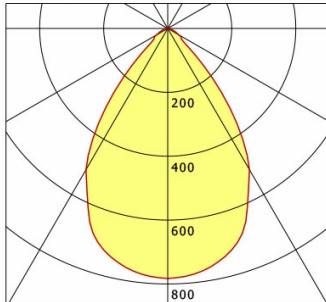
## Dimensions / Weights

|                          |                |
|--------------------------|----------------|
| <b>Outer diameter</b>    | 260 mm         |
| <b>Height</b>            | 114 mm         |
| <b>Cut-out (Ø)</b>       | 228 mm         |
| <b>Ceiling thickness</b> | 10.0 - 35.0 mm |
| <b>Recessed depth</b>    | 110 mm         |
| <b>Net weight</b>        | 1.00 kg        |
| <b>Gross weight</b>      | 1.16 kg        |

# CDL 40.3030.02

Multi 40 (CDZ 4.08, 1xLED 28W 830/3000K 2850lm 73 °)

C0/C180 cd / 1000 lm



|     | C0  | C90 | C180 | C270 |
|-----|-----|-----|------|------|
| 0°  | 783 | 783 | 783  | 783  |
| 15° | 730 | 730 | 730  | 730  |
| 30° | 511 | 511 | 511  | 511  |
| 45° | 139 | 139 | 139  | 139  |
| 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]

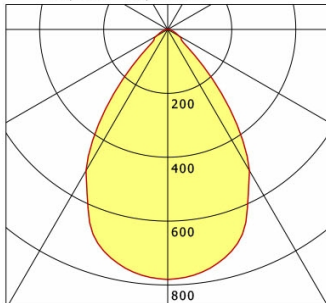
| Offset [m] | Cone width [m] | Illuminance [lx] |
|------------|----------------|------------------|
| 3.0        | 4.22           | 247.9            |
| 6.0        | 8.43           | 62.0             |
| 9.0        | 12.65          | 27.5             |
| 12.0       | 16.87          | 15.5             |
| 15.0       | 21.09          | 9.9              |

|                    |                  |
|--------------------|------------------|
| <b>η</b>           | LED              |
| Efficiency         | 102 lm/W         |
| Direct/Indirect    | ↓ 100% / ↑ 0%    |
| System Power       | 28 W             |
| <b>UGR</b>         | X=4H, Y=8H       |
| Reflection factors | 70/50/20         |
| UGR C0/C180        | 20.9             |
| UGR C90/C270       | 20.9             |
| CIE Flux Codes     | 82 95 99 100 100 |
| Ra/CRI             | >80              |

LTS

Multi 40 (CDZ 4.63, 1xLED 28W 830/3000K 2850lm 73 °)

C0/C180 cd / 1000 lm



|     | C0  | C90 | C180 | C270 |
|-----|-----|-----|------|------|
| 0°  | 783 | 783 | 783  | 783  |
| 15° | 730 | 730 | 730  | 730  |
| 30° | 511 | 511 | 511  | 511  |
| 45° | 139 | 139 | 139  | 139  |
| 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]

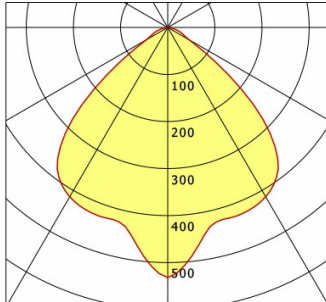
| Offset [m] | Cone width [m] | Illuminance [lx] |
|------------|----------------|------------------|
| 3.0        | 4.22           | 247.9            |
| 6.0        | 8.43           | 62.0             |
| 9.0        | 12.65          | 27.5             |
| 12.0       | 16.87          | 15.5             |
| 15.0       | 21.09          | 9.9              |

|                    |                  |
|--------------------|------------------|
| <b>η</b>           | LED              |
| Efficiency         | 102 lm/W         |
| Direct/Indirect    | ↓ 100% / ↑ 0%    |
| System Power       | 28 W             |
| <b>UGR</b>         | X=4H, Y=8H       |
| Reflection factors | 70/50/20         |
| UGR C0/C180        | 20.9             |
| UGR C90/C270       | 20.9             |
| CIE Flux Codes     | 82 95 99 100 100 |
| Ra/CRI             | >80              |

LTS

Multi 40 (CDZ 4.60, 1xLED 28W 830/3000K 2860lm 73 °)

C0/C180 cd / 1000 lm



|     | C0  | C90 | C180 | C270 |
|-----|-----|-----|------|------|
| 0°  | 532 | 532 | 532  | 532  |
| 15° | 425 | 425 | 425  | 425  |
| 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]

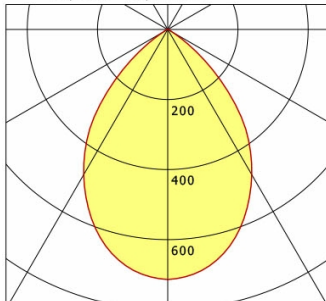
| Offset [m] | Cone width [m] | Illuminance [lx] |
|------------|----------------|------------------|
| 3.0        | 6.39           | 169.0            |
| 6.0        | 12.78          | 42.2             |
| 9.0        | 19.17          | 18.8             |
| 12.0       | 25.55          | 10.6             |
| 15.0       | 31.94          | 6.8              |

|                    |                  |
|--------------------|------------------|
| <b>η</b>           | LED              |
| Efficiency         | 102 lm/W         |
| Direct/Indirect    | ↓ 100% / ↑ 0%    |
| System Power       | 28 W             |
| <b>UGR</b>         | X=4H, Y=8H       |
| Reflection factors | 70/50/20         |
| UGR C0/C180        | 23.8             |
| UGR C90/C270       | 23.8             |
| CIE Flux Codes     | 65 94 99 100 100 |
| Ra/CRI             | >80              |

LTS

Multi 40 (CDZ 4.39, 1xLED 28W 830/3000K 2900lm 73 °)

C0/C180 cd / 1000 lm



|     | C0  | C90 | C180 | C270 |
|-----|-----|-----|------|------|
| 0°  | 714 | 714 | 714  | 714  |
| 15° | 651 | 651 | 651  | 651  |
| 30° | 479 | 479 | 479  | 479  |
| 45° | 229 | 229 | 229  | 229  |
| 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        | 4.72           | 230.0            |
| 6.0        | 9.45           | 57.5             |
| 9.0        | 14.17          | 25.6             |
| 12.0       | 18.89          | 14.4             |
| 15.0       | 23.62          | 9.2              |

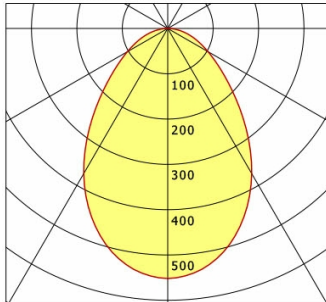
|                    |                   |
|--------------------|-------------------|
| <b>η</b>           | LED               |
| Efficiency         | 104 lm/W          |
| Direct/Indirect    | ↓ 100% / ↑ 0%     |
| System Power       | 28 W              |
| <b>UGR</b>         | X=4H, Y=8H        |
| Reflection factors | 70/50/20          |
| UGR C0/C180        | 21.0              |
| UGR C90/C270       | 21.0              |
| CIE Flux Codes     | 78 99 100 100 100 |
| Ra/CRI             | >80               |

LTS

# CDL 40.3030.02

Multi 40 (CDZ 4.61, 1xLED 28W 830/3000K 2720lm 73 °)

— C0/C180 cd / 1000 lm



|              | C0  | C90 | C180 | C270 |
|--------------|-----|-----|------|------|
| 0°           | 552 | 552 | 552  | 552  |
| 15°          | 502 | 502 | 502  | 502  |
| 30°          | 370 | 370 | 370  | 370  |
| 45°          | 207 | 207 | 207  | 207  |
| 60°          | 103 | 103 | 103  | 103  |
| 75°          | 44  | 44  | 44   | 44   |
| 90°          | 1   | 1   | 1    | 1    |
| cd / 1000 lm |     |     |      |      |

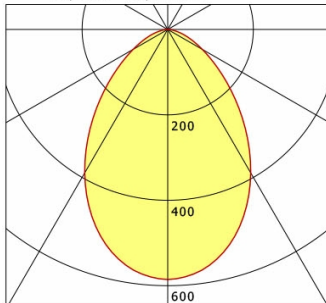
| Offset [m] | Cone width [m] | Illuminance [lx] |
|------------|----------------|------------------|
| 3.0        | 4.76           | 166.8            |
| 6.0        | 9.51           | 41.7             |
| 9.0        | 14.27          | 18.5             |
| 12.0       | 19.03          | 10.4             |
| 15.0       | 23.78          | 6.7              |

|                    |                  |
|--------------------|------------------|
| <b>η</b>           | LED              |
| Efficiency         | 97 lm/W          |
| Direct/Indirect    | ↓ 100% / ↑ 0%    |
| System Power       | 28 W             |
| <b>UGR</b>         | X=4H, Y=8H       |
| Reflection factors | 70/50/20         |
| UGR C0/C180        | 26.3             |
| UGR C90/C270       | 26.3             |
| CIE Flux Codes     | 61 86 97 100 100 |
| Ra/CRI             | >80              |

LTS

Multi 40 (CDZ 4.38, 1xLED 28W 830/3000K 2680lm 73 °)

— C0/C180 cd / 1000 lm



|              | C0  | C90 | C180 | C270 |
|--------------|-----|-----|------|------|
| 0°           | 586 | 586 | 586  | 586  |
| 15°          | 531 | 531 | 531  | 531  |
| 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    |
| cd / 1000 lm |     |     |      |      |

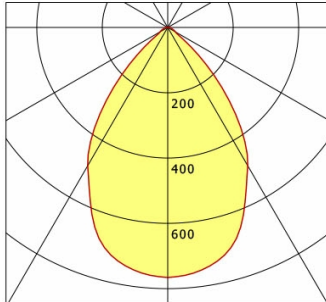
| Offset [m] | Cone width [m] | Illuminance [lx] |
|------------|----------------|------------------|
| 3.0        | 4.71           | 174.4            |
| 6.0        | 9.43           | 43.6             |
| 9.0        | 14.14          | 19.4             |
| 12.0       | 18.86          | 10.9             |
| 15.0       | 23.57          | 7.0              |

|                    |                  |
|--------------------|------------------|
| <b>η</b>           | LED              |
| Efficiency         | 96 lm/W          |
| Direct/Indirect    | ↓ 100% / ↑ 0%    |
| System Power       | 28 W             |
| <b>UGR</b>         | X=4H, Y=8H       |
| Reflection factors | 70/50/20         |
| UGR C0/C180        | 24.8             |
| UGR C90/C270       | 24.8             |
| CIE Flux Codes     | 64 89 98 100 100 |
| Ra/CRI             | >80              |

LTS

Multi 40 (CDZ 4.35, 1xLED 28W 830/3000K 2930lm 73 °)

— C0/C180 cd / 1000 lm



|              | C0  | C90 | C180 | C270 |
|--------------|-----|-----|------|------|
| 0°           | 766 | 766 | 766  | 766  |
| 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    |
| cd / 1000 lm |     |     |      |      |

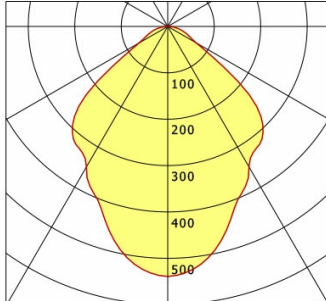
| Offset [m] | Cone width [m] | Illuminance [lx] |
|------------|----------------|------------------|
| 3.0        | 4.34           | 249.3            |
| 6.0        | 8.68           | 62.3             |
| 9.0        | 13.01          | 27.7             |
| 12.0       | 17.35          | 15.6             |
| 15.0       | 21.69          | 10.0             |

|                    |                  |
|--------------------|------------------|
| <b>η</b>           | LED              |
| Efficiency         | 105 lm/W         |
| Direct/Indirect    | ↓ 100% / ↑ 0%    |
| System Power       | 28 W             |
| <b>UGR</b>         | X=4H, Y=8H       |
| Reflection factors | 70/50/20         |
| UGR C0/C180        | 20.9             |
| UGR C90/C270       | 20.9             |
| CIE Flux Codes     | 81 96 99 100 100 |
| Ra/CRI             | >80              |

LTS

Multi 40 (CDZ 4.64, 1xLED 28W 830/3000K 2730lm 73 °)

— C0/C180 cd / 1000 lm



|              | C0  | C90 | C180 | C270 |
|--------------|-----|-----|------|------|
| 0°           | 539 | 539 | 539  | 539  |
| 15°          | 467 | 467 | 467  | 467  |
| 30°          | 350 | 350 | 350  | 350  |
| 45°          | 287 | 287 | 287  | 287  |
| 60°          | 71  | 71  | 71   | 71   |
| 75°          | 30  | 30  | 30   | 30   |
| 90°          | 2   | 2   | 2    | 2    |
| cd / 1000 lm |     |     |      |      |

| Offset [m] | Cone width [m] | Illuminance [lx] |
|------------|----------------|------------------|
| 3.0        | 6.40           | 163.6            |
| 6.0        | 12.80          | 40.9             |
| 9.0        | 19.20          | 18.2             |
| 12.0       | 25.60          | 10.2             |
| 15.0       | 32.01          | 6.5              |

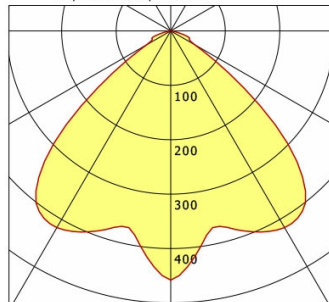
|                    |                  |
|--------------------|------------------|
| <b>η</b>           | LED              |
| Efficiency         | 98 lm/W          |
| Direct/Indirect    | ↓ 100% / ↑ 0%    |
| System Power       | 28 W             |
| <b>UGR</b>         | X=4H, Y=8H       |
| Reflection factors | 70/50/20         |
| UGR C0/C180        | 25.0             |
| UGR C90/C270       | 25.0             |
| CIE Flux Codes     | 60 90 98 100 100 |
| Ra/CRI             | >80              |

LTS

# CDL 40.3030.02

Multi 40 (CDZ 4.01, 1xLED 28W 830/3000K 2430lm 73 °)

C0/C180 cd / 1000 lm



|     | C0  | C90 | C180 | C270 |
|-----|-----|-----|------|------|
| 0°  | 458 | 458 | 458  | 458  |
| 15° | 372 | 372 | 372  | 372  |
| 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]

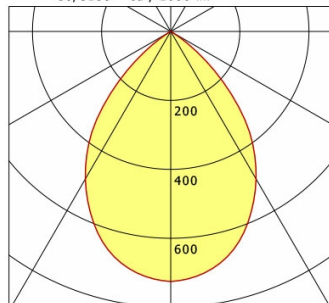
| Offset [m] | Cone width [m] | Illuminance [lx] |
|------------|----------------|------------------|
| 3.0        | 6.98           | 123.6            |
| 6.0        | 13.96          | 30.9             |
| 9.0        | 20.93          | 13.7             |
| 12.0       | 27.91          | 7.7              |
| 15.0       | 34.89          | 4.9              |

|                    |                  |
|--------------------|------------------|
| <b>η</b>           | LED              |
| Efficiency         | 87 lm/W          |
| Direct/Indirect    | ↓ 100% / ↑ 0%    |
| System Power       | 28 W             |
| <b>UGR</b>         | X=4H, Y=8H       |
| Reflection factors | 70/50/20         |
| UGR C0/C180        | 23.6             |
| UGR C90/C270       | 23.6             |
| CIE Flux Codes     | 63 94 99 100 100 |
| Ra/CRI             | >80              |

LTS

Multi 40 (CDL ohne Dekor, 1xLED 28W 830/3000K 2990lm 73 °)

C0/C180 cd / 1000 lm



|     | C0  | C90 | C180 | C270 |
|-----|-----|-----|------|------|
| 0°  | 725 | 725 | 725  | 725  |
| 15° | 667 | 667 | 667  | 667  |
| 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]

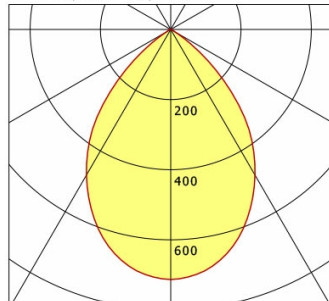
| Offset [m] | Cone width [m] | Illuminance [lx] |
|------------|----------------|------------------|
| 3.0        | 4.76           | 241.0            |
| 6.0        | 9.52           | 60.2             |
| 9.0        | 14.28          | 26.8             |
| 12.0       | 19.04          | 15.1             |
| 15.0       | 23.80          | 9.6              |

|                    |                    |
|--------------------|--------------------|
| <b>η</b>           | LED                |
| Efficiency         | 107 lm/W           |
| Direct/Indirect    | ↓ 100% / ↑ 0%      |
| System Power       | 28 W               |
| <b>UGR</b>         | X=4H, Y=8H         |
| Reflection factors | 70/50/20           |
| UGR C0/C180        | 20.9               |
| UGR C90/C270       | 20.9               |
| CIE Flux Codes     | 80 100 100 100 100 |
| Ra/CRI             | >80                |

LTS

Multi 40 (CDZ 4.62, 1xLED 28W 830/3000K 2930lm 73 °)

C0/C180 cd / 1000 lm



|     | C0  | C90 | C180 | C270 |
|-----|-----|-----|------|------|
| 0°  | 713 | 713 | 713  | 713  |
| 15° | 651 | 651 | 651  | 651  |
| 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        | 4.73           | 232.2            |
| 6.0        | 9.47           | 58.0             |
| 9.0        | 14.20          | 25.8             |
| 12.0       | 18.94          | 14.5             |
| 15.0       | 23.67          | 9.3              |

|                    |                   |
|--------------------|-------------------|
| <b>η</b>           | LED               |
| Efficiency         | 105 lm/W          |
| Direct/Indirect    | ↓ 100% / ↑ 0%     |
| System Power       | 28 W              |
| <b>UGR</b>         | X=4H, Y=8H        |
| Reflection factors | 70/50/20          |
| UGR C0/C180        | 21.0              |
| UGR C90/C270       | 21.0              |
| CIE Flux Codes     | 78 99 100 100 100 |
| Ra/CRI             | >80               |

LTS

## CDL 40.3030.02

### 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)