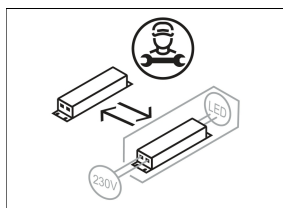
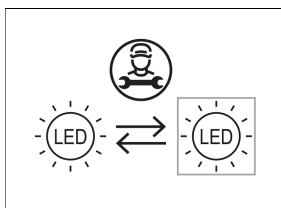
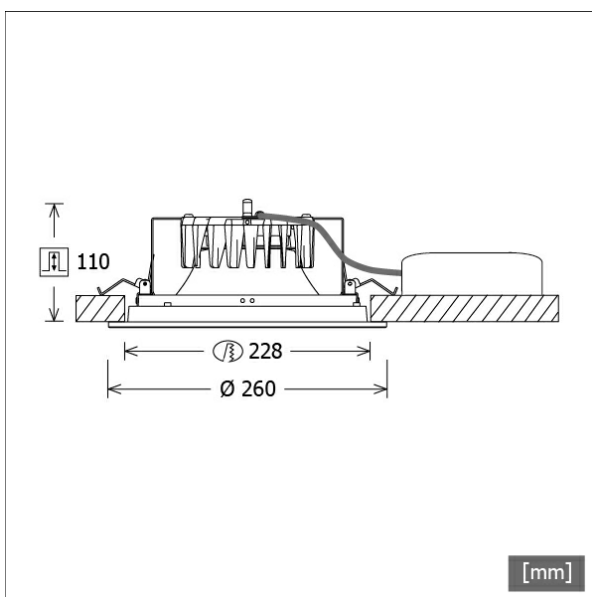


# CDL 40.3030.02/DALI



| Farbe  | Artikelnummer | EAN           |
|--------|---------------|---------------|
| silber | 660144        | 4043544689634 |
| weiß   | 660145        | 4043544689641 |



## Beschreibung

- Einbau-Downlight für Allgemeinbeleuchtung
- Leuchte erweiterbar mit verschiedenen optischen Dekorrinnen und Gläsern
- hohe Wartungsfreundlichkeit
- keine UV- und Wärmestrahlung
- innovatives Wärmemanagement mit Passivkühlung (Kühlkörper aus Aluminiumdruckguss)
- Spiegelreflektor aus Aluminium mit präziser symmetrischer Abstrahlcharakteristik für optimale Lichtausbeute und Entblendung
- Front-/Einbauring aus Polycarbonat
- werkzeugloser Deckeneinbau mit Schnellspannern (automatische Anpassung der Deckenstärke)
- Anschluss an Betriebsgerät über vormontiertes Leuchtenkabel
- Betriebsgerät (LED-Konverter DALI, dimmbar) inklusive (Platzierung extern)

## Hinweise

Betoneingießtopf auf Anfrage erhältlich.

## Standardoptionen



## Sonderoptionen



## Lichttechnik / Normen

|                     |                                                           |
|---------------------|-----------------------------------------------------------|
| Leuchtmittel        | LED Modul / CRI 80 / 3000 K                               |
| EPREL Lichtquellen  | 891018                                                    |
| Lebensdauer         | L90 B50 50.000 h<br>L80 B50 100.000 h<br>L80 B20 50.000 h |
| Systemleistung      | 28.0 W                                                    |
| Leuchten-Lichtstrom | max. 2990 lm                                              |
| Systemeffizienz     | 101.78 lm/W                                               |
| Moduleffizienz      | 119.10 lm/W                                               |
| UGR Klasse          | ≤28                                                       |
| Abstrahlwinkel      | 73°                                                       |
| Versorgungsspannung | 220 - 240 V / 50 - 60 Hz                                  |
| Schutzklasse        | III                                                       |
| Schutzart           | IP20                                                      |

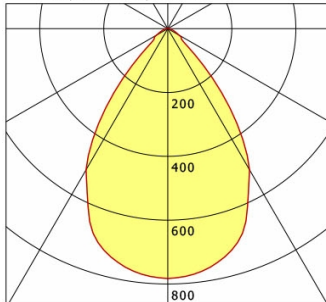
## Abmessungen / Gewichte

|                    |                |
|--------------------|----------------|
| Außendurchmesser   | 260 mm         |
| Höhe               | 114 mm         |
| Ausschnittsmaß (Ø) | 228 mm         |
| Deckenstärke       | 10.0 - 35.0 mm |
| Einbautiefe        | 110 mm         |
| Nettogewicht       | 1.02 kg        |
| Bruttogewicht      | 1.18 kg        |

# CDL 40.3030.02/DALI

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]

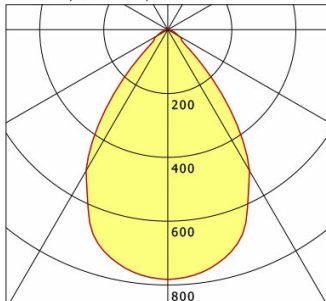
| Offset [m] | Cone width [m] | Illuminance [lx] |
|------------|----------------|------------------|
| 3.0        | 4.22           | 247.9            |
| 6.0        | 8.43           | 62.0             |
| 9.0        | 12.65          | 27.5             |
| 12.0       | 16.87          | 15.5         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

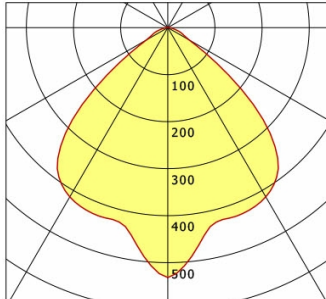
| Offset [m] | Cone width [m] | Illuminance [lx] |
|------------|----------------|------------------|
| 3.0        | 4.22           | 247.9            |
| 6.0        | 8.43           | 62.0             |
| 9.0        | 12.65          | 27.5             |
| 12.0       | 16.87          | 15.5         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

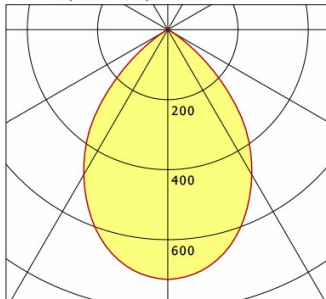
| Offset [m] | Cone width [m] | Illuminance [lx] |
|------------|----------------|------------------|
| 3.0        | 6.39           | 169.0            |
| 6.0        | 12.78          | 42.2             |
| 9.0        | 19.17          | 18.8             |
| 12.0       | 25.55          | 10.6         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

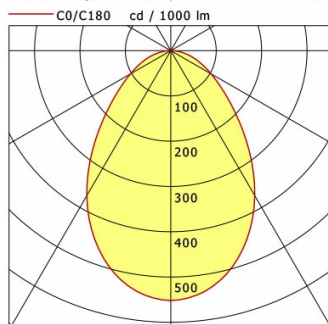
| Offset [m] | Cone width [m] | Illuminance [lx] |
|------------|----------------|------------------|
| 3.0        | 4.72           | 230.0            |
| 6.0        | 9.45           | 57.5             |
| 9.0        | 14.17          | 25.6             |
| 12.0       | 18.89          | 14.4             |
| 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/DALI

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



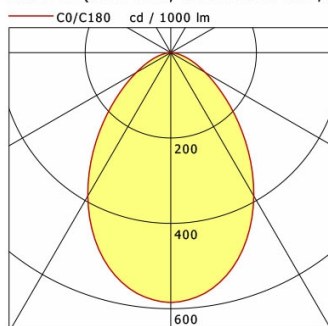
|     | C0  | C90 | C180 | C270 |
|-----|-----|-----|------|------|
| 0°  | 552 | 552 | 552  | 552  |
| 15° | 502 | 502 | 502  | 502  |
| 30° | 370 | 370 | 370  | 370  |
| 45° | 207 | 207 | 207  | 207  |
| 60° | 103 | 103 | 103  | 103  |
| 75° | 44  | 44  | 44   | 44   |
| 90° | 1   | 1   | 1    | 1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

| 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 °)



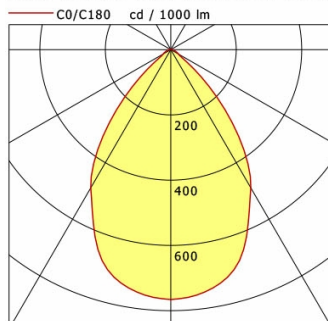
|     | C0  | C90 | C180 | C270 |
|-----|-----|-----|------|------|
| 0°  | 586 | 586 | 586  | 586  |
| 15° | 531 | 531 | 531  | 531  |
| 30° | 388 | 388 | 388  | 388  |
| 45° | 216 | 216 | 216  | 216  |
| 60° | 93  | 93  | 93   | 93   |
| 75° | 30  | 30  | 30   | 30   |
| 90° | 0   | 0   | 0    | 0    |

| 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 °)



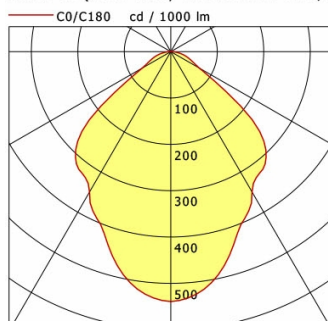
|     | C0  | C90 | C180 | C270 |
|-----|-----|-----|------|------|
| 0°  | 766 | 766 | 766  | 766  |
| 15° | 710 | 710 | 710  | 710  |
| 30° | 489 | 489 | 489  | 489  |
| 45° | 184 | 184 | 184  | 184  |
| 60° | 27  | 27  | 27   | 27   |
| 75° | 12  | 12  | 12   | 12   |
| 90° | 0   | 0   | 0    | 0    |

| 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  | 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    |

| 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              |

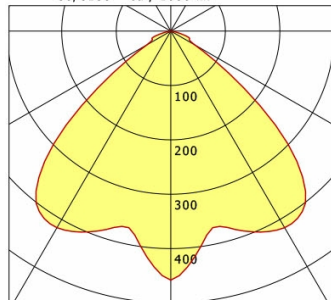
|                    |                  |
|--------------------|------------------|
| <b>η</b>           | LED              |
| Efficiency         | 98 lm/W          |
| Direct/Indirect    | ↓ 100% / ↑ 0%    |
| System Power       | 28 W             |
| <b>UGR</b>         | X=4H, Y=8H       |
| Reflection 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/DALI

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]

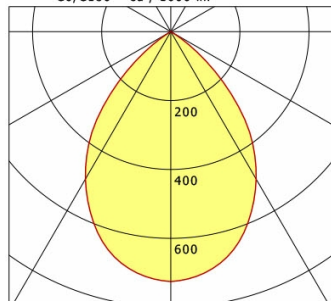
| Offset [m] | Cone width [m] | Illuminance [lx] |
|------------|----------------|------------------|
| 3.0        | 6.98           | 123.6            |
| 6.0        | 13.96          | 30.9             |
| 9.0        | 20.93          | 13.7             |
| 12.0       | 27.91          | 7.7          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

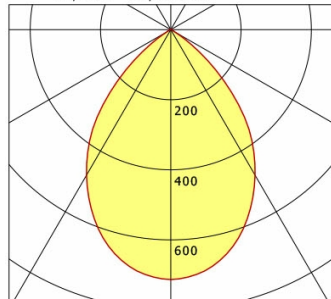
| Offset [m] | Cone width [m] | Illuminance [lx] |
|------------|----------------|------------------|
| 3.0        | 4.76           | 241.0            |
| 6.0        | 9.52           | 60.2             |
| 9.0        | 14.28          | 26.8             |
| 12.0       | 19.04          | 15.1         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

## Zubehör



**CDZ 4.01**  
Glasscheibe teilmattiert  
(innenliegend)



**CDZ 4.08**  
Glassring satiniert  
(vorgesetzt)



**CDZ 4.35**  
Dekoglasring mattiert  
(innenliegend)



**CDZ 4.38**  
Glasscheibe satiniert  
(innenliegend)



**CDZ 4.39**  
Glasscheibe klar  
(innenliegend)



**CDZ 4.60**  
Acrylglasscheibe teilmattiert  
(innenliegend)



**CDZ 4.61**  
Acrylglasscheibe mattiert  
(innenliegend)



**CDZ 4.62**  
Acrylglasscheibe klar  
(innenliegend)



**CDZ 4.63**  
Acrylglasring mattiert  
(vorgesetzt)



**CDZ 4.64**  
Acrylglasscheibe innen mattiert  
(vorgesetzt)



**NOL 50B/3H/DALI**  
LED-Notlichteinheit



**ZVP 100**  
Universalverstärkungsrahmen  
(Modul 625 x 625)