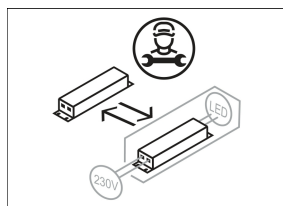
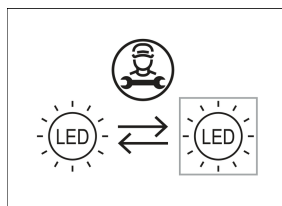


# DAL-M-LK 101.830.50



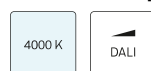
| Farbe  | Artikelnummer | EAN           |
|--------|---------------|---------------|
| silber | 660991        | 4043544698087 |



## Beschreibung

- Lichtkopf 355° drehbar und 30° schwenkbar über Einstellschraube
- individuelle Optik durch Standard-Einbaurahmen oder deckenbündigen Trimless-Einbaurahmen sowie verschiedene Frontreflektoren
- hohe Wartungsfreundlichkeit
- keine UV- und Wärmestrahlung
- Wärmemanagement mit Passivkühlung
- Lichtkopf und Kühlkörper aus Druckguss
- Hauptreflektor aus Kunststoff
- schwarzer Entblendungsring aus Polycarbonat für Aufnahme von Wabenraster
- Diffusorscheibe aus Glas
- werkzeugloses Einrasten des Lichtkopfes in Einbaurahmen
- Anschluss an Betriebsgerät über Leuchtenkabel mit Mini-Clamp Steckverbindung
- Betriebsgerät (LED-Konverter) inklusive (Platzierung extern)

## Standardoptionen



## Sonderoptionen



## Lichttechnik / Normen

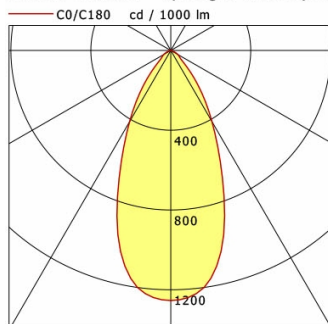
|                     |                                                           |
|---------------------|-----------------------------------------------------------|
| Leuchtmittel        | LED Spot / CRI 80 / 3000 K                                |
| EPREL Lichtquellen  | 848117                                                    |
| Lebensdauer         | L90 B50 50.000 h<br>L80 B50 100.000 h<br>L80 B20 50.000 h |
| Systemleistung      | 21.0 W                                                    |
| Leuchten-Lichtstrom | max. 1770 lm                                              |
| Systemeffizienz     | 74.28 lm/W                                                |
| Moduleffizienz      | 156.64 lm/W                                               |
| UGR Klasse          | ≤19                                                       |
| Abstrahlwinkel      | 50°                                                       |
| Versorgungsspannung | 220 - 240 V / 50 - 60 Hz                                  |
| Schutzklasse        | III                                                       |
| Schutzart           | IP20                                                      |

## Abmessungen / Gewichte

|                       |         |
|-----------------------|---------|
| Außendurchmesser      | 101 mm  |
| Höhe                  | 121 mm  |
| Einbautiefe           | 170 mm  |
| Durchmesser Lichtkopf | 101 mm  |
| Nettogewicht          | 0.83 kg |
| Bruttogewicht         | 0.87 kg |

# DAL-M-LK 101.830.50

Dallton Medium - Spotlight Insert (DAL-M-RTQ 12\_WS-MATT, 1xLED 21W 830/3000K 1610lm 50 °)



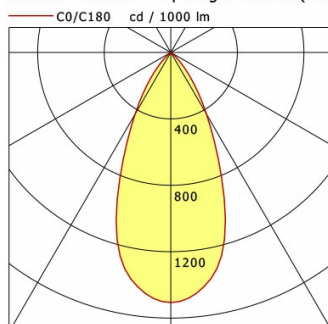
|              | C0   | C90  | C180 | C270 |
|--------------|------|------|------|------|
| 0°           | 1254 | 1254 | 1254 | 1254 |
| 15°          | 1002 | 1002 | 1002 | 1002 |
| 30°          | 412  | 412  | 412  | 412  |
| 45°          | 105  | 105  | 105  | 105  |
| 60°          | 40   | 40   | 40   | 40   |
| 75°          | 7    | 7    | 7    | 7    |
| 90°          | 0    | 0    | 0    | 0    |
| cd / 1000 lm |      |      |      |      |

| Offset [m] | Cone width [m] | Illuminance [lx] |
|------------|----------------|------------------|
| 3.0        | 2.62           | 224.3            |
| 6.0        | 5.23           | 56.1             |
| 9.0        | 7.85           | 24.9             |
| 12.0       | 10.47          | 14.0             |
| 15.0       | 13.09          | 9.0              |

|                    |                   |
|--------------------|-------------------|
| <b>η</b>           | LED               |
| Efficiency         | 77 lm/W           |
| Direct/Indirect    | ↓ 100% / ↑ 0%     |
| System Power       | 21 W              |
| <b>UGR</b>         | X=4H, Y=8H        |
| Reflection factors | 70/50/20          |
| UGR C0/C180        | 18.9              |
| UGR C90/C270       | 18.9              |
| CIE Flux Codes     | 85 96 100 100 100 |
| Ra/CRI             | >80               |

LTS

Dallton Medium - Spotlight Insert (DAL-M-RTR 22\_SW-MATT, 1xLED 21W 830/3000K 1400lm 50 °)



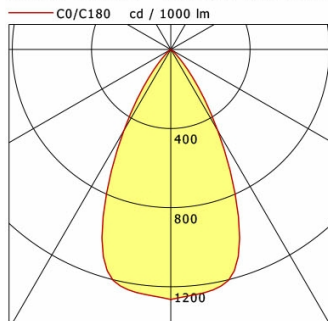
|              | C0   | C90  | C180 | C270 |
|--------------|------|------|------|------|
| 0°           | 1506 | 1506 | 1506 | 1506 |
| 15°          | 1219 | 1219 | 1219 | 1219 |
| 30°          | 429  | 429  | 429  | 429  |
| 45°          | 71   | 71   | 71   | 71   |
| 60°          | 0    | 0    | 0    | 0    |
| 75°          | 0    | 0    | 0    | 0    |
| 90°          | 0    | 0    | 0    | 0    |
| cd / 1000 lm |      |      |      |      |

| Offset [m] | Cone width [m] | Illuminance [lx] |
|------------|----------------|------------------|
| 3.0        | 2.56           | 234.3            |
| 6.0        | 5.12           | 58.6             |
| 9.0        | 7.68           | 26.0             |
| 12.0       | 10.24          | 14.6             |
| 15.0       | 12.80          | 9.4              |

|                    |                    |
|--------------------|--------------------|
| <b>η</b>           | LED                |
| Efficiency         | 67 lm/W            |
| Direct/Indirect    | ↓ 100% / ↑ 0%      |
| System Power       | 21 W               |
| <b>UGR</b>         | X=4H, Y=8H         |
| Reflection factors | 70/50/20           |
| UGR C0/C180        | 15.8               |
| UGR C90/C270       | 15.8               |
| CIE Flux Codes     | 95 100 100 100 100 |
| Ra/CRI             | >80                |

LTS

Dallton Medium - Spotlight Insert (DAL-M-RFR 22, 1xLED 21W 830/3000K 1770lm 50 °)



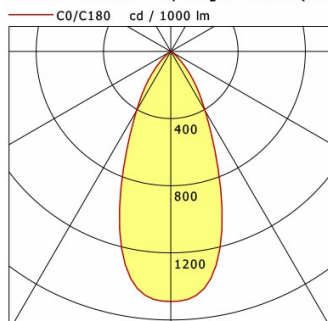
|              | C0   | C90  | C180 | C270 |
|--------------|------|------|------|------|
| 0°           | 1265 | 1265 | 1265 | 1265 |
| 15°          | 1187 | 1187 | 1187 | 1187 |
| 30°          | 473  | 473  | 473  | 473  |
| 45°          | 51   | 51   | 51   | 51   |
| 60°          | 0    | 0    | 0    | 0    |
| 75°          | 0    | 0    | 0    | 0    |
| 90°          | 0    | 0    | 0    | 0    |
| cd / 1000 lm |      |      |      |      |

| Offset [m] | Cone width [m] | Illuminance [lx] |
|------------|----------------|------------------|
| 3.0        | 3.05           | 248.7            |
| 6.0        | 6.10           | 62.2             |
| 9.0        | 9.15           | 27.6             |
| 12.0       | 12.20          | 15.5             |
| 15.0       | 15.25          | 9.9              |

|                    |                    |
|--------------------|--------------------|
| <b>η</b>           | LED                |
| Efficiency         | 84 lm/W            |
| Direct/Indirect    | ↓ 100% / ↑ 0%      |
| System Power       | 21 W               |
| <b>UGR</b>         | X=4H, Y=8H         |
| Reflection factors | 70/50/20           |
| UGR C0/C180        | 16.3               |
| UGR C90/C270       | 16.3               |
| CIE Flux Codes     | 96 100 100 100 100 |
| Ra/CRI             | >80                |

LTS

Dallton Medium - Spotlight Insert (DAL-M-RTR 22\_CH, 1xLED 21W 830/3000K 1660lm 50 °)



|              | C0   | C90  | C180 | C270 |
|--------------|------|------|------|------|
| 0°           | 1490 | 1490 | 1490 | 1490 |
| 15°          | 1158 | 1158 | 1158 | 1158 |
| 30°          | 407  | 407  | 407  | 407  |
| 45°          | 99   | 99   | 99   | 99   |
| 60°          | 3    | 3    | 3    | 3    |
| 75°          | 0    | 0    | 0    | 0    |
| 90°          | 0    | 0    | 0    | 0    |
| cd / 1000 lm |      |      |      |      |

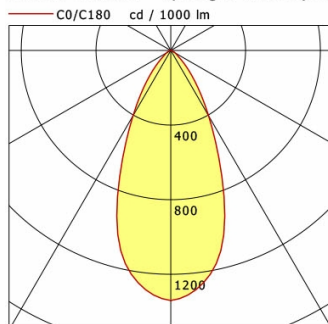
| Offset [m] | Cone width [m] | Illuminance [lx] |
|------------|----------------|------------------|
| 3.0        | 2.44           | 274.8            |
| 6.0        | 4.87           | 68.7             |
| 9.0        | 7.31           | 30.5             |
| 12.0       | 9.75           | 17.2             |
| 15.0       | 12.19          | 11.0             |

|                    |                    |
|--------------------|--------------------|
| <b>η</b>           | LED                |
| Efficiency         | 79 lm/W            |
| Direct/Indirect    | ↓ 100% / ↑ 0%      |
| System Power       | 21 W               |
| <b>UGR</b>         | X=4H, Y=8H         |
| Reflection factors | 70/50/20           |
| UGR C0/C180        | 17.4               |
| UGR C90/C270       | 17.4               |
| CIE Flux Codes     | 92 100 100 100 100 |
| Ra/CRI             | >80                |

LTS

# DAL-M-LK 101.830.50

Dallton Medium - Spotlight Insert (DAL-M-RTR 22\_WS-MATT, 1xLED 21W 830/3000K 1620lm 50 °)



|     | C0   | C90  | C180 | C270 |
|-----|------|------|------|------|
| 0°  | 1341 | 1341 | 1341 | 1341 |
| 15° | 1069 | 1069 | 1069 | 1069 |
| 30° | 404  | 404  | 404  | 404  |
| 45° | 105  | 105  | 105  | 105  |
| 60° | 28   | 28   | 28   | 28   |
| 75° | 4    | 4    | 4    | 4    |
| 90° | 0    | 0    | 0    | 0    |

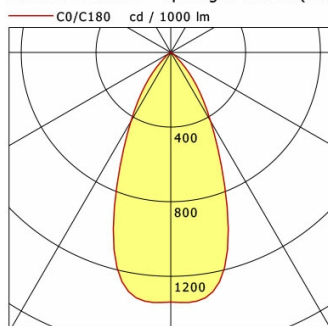
cd / 1000 lm

| Offset [m] | Cone width [m] | Illuminance [lx] |
|------------|----------------|------------------|
| 3.0        | 2.58           | 241.3            |
| 6.0        | 5.16           | 60.3             |
| 9.0        | 7.73           | 26.8             |
| 12.0       | 10.31          | 15.1             |
| 15.0       | 12.89          | 9.7              |

|                    |                   |
|--------------------|-------------------|
| <b>η</b>           | LED               |
| Efficiency         | 77 lm/W           |
| Direct/Indirect    | ↓ 100% / ↑ 0%     |
| System Power       | 21 W              |
| <b>UGR</b>         | X=4H, Y=8H        |
| Reflection factors | 70/50/20          |
| UGR C0/C180        | 19.0              |
| UGR C90/C270       | 19.0              |
| CIE Flux Codes     | 87 98 100 100 100 |
| Ra/CRI             | >80               |

LTS

Dallton Medium - Spotlight Insert (DAL-M-RTQ 12\_CH, 1xLED 21W 830/3000K 1650lm 50 °)



|     | C0   | C90  | C180 | C270 |
|-----|------|------|------|------|
| 0°  | 1338 | 1338 | 1338 | 1338 |
| 15° | 1148 | 1148 | 1148 | 1148 |
| 30° | 426  | 426  | 426  | 426  |
| 45° | 92   | 92   | 92   | 92   |
| 60° | 8    | 8    | 8    | 8    |
| 75° | 0    | 0    | 0    | 0    |
| 90° | 0    | 0    | 0    | 0    |

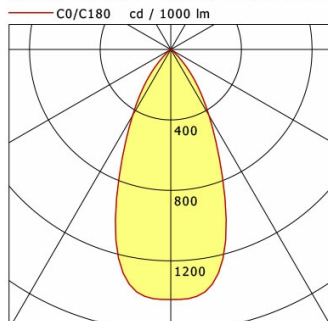
cd / 1000 lm

| Offset [m] | Cone width [m] | Illuminance [lx] |
|------------|----------------|------------------|
| 3.0        | 2.66           | 245.3            |
| 6.0        | 5.33           | 61.3             |
| 9.0        | 7.99           | 27.3             |
| 12.0       | 10.65          | 15.3             |
| 15.0       | 13.32          | 9.8              |

|                    |                    |
|--------------------|--------------------|
| <b>η</b>           | LED                |
| Efficiency         | 79 lm/W            |
| Direct/Indirect    | ↓ 100% / ↑ 0%      |
| System Power       | 21 W               |
| <b>UGR</b>         | X=4H, Y=8H         |
| Reflection factors | 70/50/20           |
| UGR C0/C180        | 16.1               |
| UGR C90/C270       | 16.1               |
| CIE Flux Codes     | 92 100 100 100 100 |
| Ra/CRI             | >80                |

LTS

Dallton Medium - Spotlight Insert (DAL-M-RTQ 12\_CH-SW, 1xLED 21W 830/3000K 1490lm 50 °)



|     | C0   | C90  | C180 | C270 |
|-----|------|------|------|------|
| 0°  | 1420 | 1420 | 1420 | 1420 |
| 15° | 1178 | 1178 | 1178 | 1178 |
| 30° | 432  | 432  | 432  | 432  |
| 45° | 78   | 78   | 78   | 78   |
| 60° | 4    | 4    | 4    | 4    |
| 75° | 0    | 0    | 0    | 0    |
| 90° | 0    | 0    | 0    | 0    |

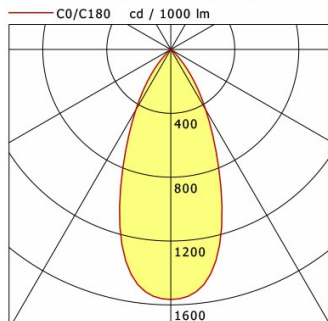
cd / 1000 lm

| Offset [m] | Cone width [m] | Illuminance [lx] |
|------------|----------------|------------------|
| 3.0        | 2.59           | 235.0            |
| 6.0        | 5.19           | 58.8             |
| 9.0        | 7.78           | 26.1             |
| 12.0       | 10.37          | 14.7             |
| 15.0       | 12.97          | 9.4              |

|                    |                    |
|--------------------|--------------------|
| <b>η</b>           | LED                |
| Efficiency         | 71 lm/W            |
| Direct/Indirect    | ↓ 100% / ↑ 0%      |
| System Power       | 21 W               |
| <b>UGR</b>         | X=4H, Y=8H         |
| Reflection factors | 70/50/20           |
| UGR C0/C180        | 15.2               |
| UGR C90/C270       | 15.2               |
| CIE Flux Codes     | 94 100 100 100 100 |
| Ra/CRI             | >80                |

LTS

Dallton Medium - Spotlight Insert (DAL-M-RTQ 12\_SW-MATT, 1xLED 21W 830/3000K 1220lm 50 °)



|     | C0   | C90  | C180 | C270 |
|-----|------|------|------|------|
| 0°  | 1566 | 1566 | 1566 | 1566 |
| 15° | 1210 | 1210 | 1210 | 1210 |
| 30° | 437  | 437  | 437  | 437  |
| 45° | 60   | 60   | 60   | 60   |
| 60° | 1    | 1    | 1    | 1    |
| 75° | 0    | 0    | 0    | 0    |
| 90° | 0    | 0    | 0    | 0    |

cd / 1000 lm

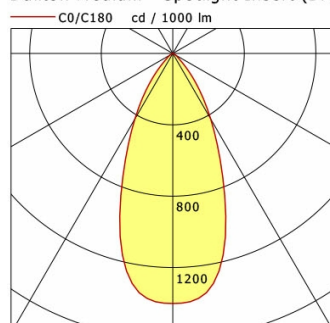
| Offset [m] | Cone width [m] | Illuminance [lx] |
|------------|----------------|------------------|
| 3.0        | 2.46           | 212.3            |
| 6.0        | 4.92           | 53.1             |
| 9.0        | 7.38           | 23.6             |
| 12.0       | 9.84           | 13.3             |
| 15.0       | 12.30          | 8.5              |

|                    |                    |
|--------------------|--------------------|
| <b>η</b>           | LED                |
| Efficiency         | 58 lm/W            |
| Direct/Indirect    | ↓ 100% / ↑ 0%      |
| System Power       | 21 W               |
| <b>UGR</b>         | X=4H, Y=8H         |
| Reflection factors | 70/50/20           |
| UGR C0/C180        | 13.9               |
| UGR C90/C270       | 13.9               |
| CIE Flux Codes     | 96 100 100 100 100 |
| Ra/CRI             | >80                |

LTS

# DAL-M-LK 101.830.50

Dallton Medium - Spotlight Insert (DAL-M-RTQ 12\_SI-MATT, 1xLED 21W 830/3000K 1490lm 50 °)



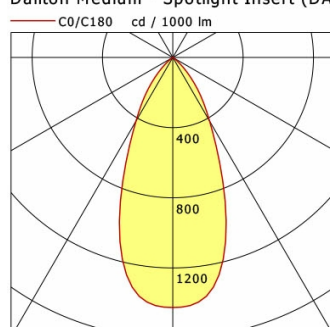
|              | C0   | C90  | C180 | C270 |
|--------------|------|------|------|------|
| 0°           | 1402 | 1402 | 1402 | 1402 |
| 15°          | 1118 | 1118 | 1118 | 1118 |
| 30°          | 424  | 424  | 424  | 424  |
| 45°          | 86   | 86   | 86   | 86   |
| 60°          | 18   | 18   | 18   | 18   |
| 75°          | 1    | 1    | 1    | 1    |
| 90°          | 0    | 0    | 0    | 0    |
| cd / 1000 lm |      |      |      |      |

| Offset [m]    | Cone width [m] | Illuminance [lx] |
|---------------|----------------|------------------|
| C0-C180 Plane |                |                  |
| 3.0           | 2.54           | 232.1            |
| 6.0           | 5.08           | 58.0             |
| 9.0           | 7.62           | 25.8             |
| 12.0          | 10.16          | 14.5             |
| 15.0          | 12.70          | 9.3              |

|                    |                   |
|--------------------|-------------------|
| <b>η</b>           | LED               |
| Efficiency         | 71 lm/W           |
| Direct/Indirect    | ↓ 100% / ↑ 0%     |
| System Power       | 21 W              |
| <b>UGR</b>         | X=4H, Y=8H        |
| Reflection factors | 70/50/20          |
| UGR C0/C180        | 16.1              |
| UGR C90/C270       | 16.1              |
| CIE Flux Codes     | 91 99 100 100 100 |
| Ra/CRI             | >80               |

LTS

Dallton Medium - Spotlight Insert (DAL-M-RTR 22\_CH-SW, 1xLED 21W 830/3000K 1610lm 50 °)



|              | C0   | C90  | C180 | C270 |
|--------------|------|------|------|------|
| 0°           | 1426 | 1426 | 1426 | 1426 |
| 15°          | 1140 | 1140 | 1140 | 1140 |
| 30°          | 418  | 418  | 418  | 418  |
| 45°          | 101  | 101  | 101  | 101  |
| 60°          | 2    | 2    | 2    | 2    |
| 75°          | 0    | 0    | 0    | 0    |
| 90°          | 0    | 0    | 0    | 0    |
| cd / 1000 lm |      |      |      |      |

| Offset [m]    | Cone width [m] | Illuminance [lx] |
|---------------|----------------|------------------|
| C0-C180 Plane |                |                  |
| 3.0           | 2.53           | 255.0            |
| 6.0           | 5.07           | 63.8             |
| 9.0           | 7.60           | 28.3             |
| 12.0          | 10.13          | 15.9             |
| 15.0          | 12.66          | 10.2             |

|                    |                    |
|--------------------|--------------------|
| <b>η</b>           | LED                |
| Efficiency         | 77 lm/W            |
| Direct/Indirect    | ↓ 100% / ↑ 0%      |
| System Power       | 21 W               |
| <b>UGR</b>         | X=4H, Y=8H         |
| Reflection factors | 70/50/20           |
| UGR C0/C180        | 17.4               |
| UGR C90/C270       | 17.4               |
| CIE Flux Codes     | 92 100 100 100 100 |
| Ra/CRI             | >80                |

LTS

Einbaustrahler · Dallton Medium System

DAL-M-LK 101.830.50

Zubehör



DAL-M-ZBW 12.22  
Wabenraster

