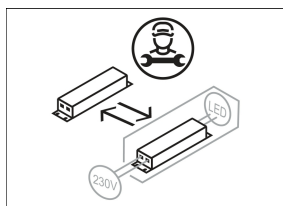
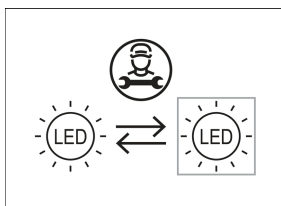


# DAL-S-LK 100.840.40



| Farbe  | Artikelnummer | EAN           |
|--------|---------------|---------------|
| silber | 661031        | 4043544698483 |



## 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

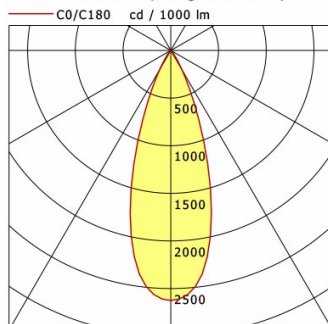
|                     |                                                           |
|---------------------|-----------------------------------------------------------|
| Leuchtmittel        | LED Spot / CRI 80 / 4000 K                                |
| Lebensdauer         | L90 B50 50.000 h<br>L80 B50 100.000 h<br>L80 B20 50.000 h |
| Systemleistung      | 15.0 W                                                    |
| Leuchten-Lichtstrom | max. 1120 lm                                              |
| Systemeffizienz     | 51.33 lm/W                                                |
| Moduleffizienz      | 160.65 lm/W                                               |
| UGR Klasse          | ≤16                                                       |
| Abstrahlwinkel      | 40°                                                       |
| Versorgungsspannung | 220 - 240 V / 50 - 60 Hz                                  |
| Schutzklasse        | III                                                       |
| Schutzart           | IP20                                                      |

## Abmessungen / Gewichte

|                       |         |
|-----------------------|---------|
| Außendurchmesser      | 82 mm   |
| Höhe                  | 103 mm  |
| Einbautiefe           | 135 mm  |
| Durchmesser Lichtkopf | 82 mm   |
| Nettogewicht          | 0.65 kg |
| Bruttogewicht         | 0.69 kg |

# DAL-S-LK 100.840.40

Dallton Small - Spotlight Insert (DAL-S-RTQ 11\_SW-MATT, 1xLED 15W 840/4000K 770lm 40 °)



|     | C0   | C90  | C180 | C270 |
|-----|------|------|------|------|
| 0°  | 2626 | 2626 | 2626 | 2626 |
| 15° | 1635 | 1635 | 1635 | 1635 |
| 30° | 234  | 234  | 234  | 234  |
| 45° | 14   | 14   | 14   | 14   |
| 60° | 1    | 1    | 1    | 1    |
| 75° | 0    | 0    | 0    | 0    |
| 90° | 0    | 0    | 0    | 0    |

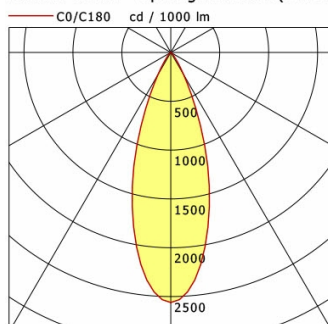
cd / 1000 lm

| Offset [m] | Cone width [m] | Illuminance [lx] |
|------------|----------------|------------------|
| 3.0        | 1.89           | 224.6            |
| 6.0        | 3.78           | 56.2             |
| 9.0        | 5.68           | 25.0             |
| 12.0       | 7.57           | 14.0             |
| 15.0       | 9.46           | 9.0              |

|                    |                    |
|--------------------|--------------------|
| <b>η</b>           | LED                |
| Efficiency         | 51 lm/W            |
| Direct/Indirect    | ↓ 100% / ↑ 0%      |
| System Power       | 15 W               |
| <b>UGR</b>         | X=4H, Y=8H         |
| Reflection factors | 70/50/20           |
| UGR C0/C180        | <10.0              |
| UGR C90/C270       | <10.0              |
| CIE Flux Codes     | 99 100 100 100 100 |
| Ra/CRI             | >80                |

LTS

Dallton Small - Spotlight Insert (DAL-S-RTR 21\_CH-SW, 1xLED 15W 840/4000K 1050lm 40 °)



|     | C0   | C90  | C180 | C270 |
|-----|------|------|------|------|
| 0°  | 2561 | 2561 | 2561 | 2561 |
| 15° | 1528 | 1528 | 1528 | 1528 |
| 30° | 261  | 261  | 261  | 261  |
| 45° | 28   | 28   | 28   | 28   |
| 60° | 0    | 0    | 0    | 0    |
| 75° | 0    | 0    | 0    | 0    |
| 90° | 0    | 0    | 0    | 0    |

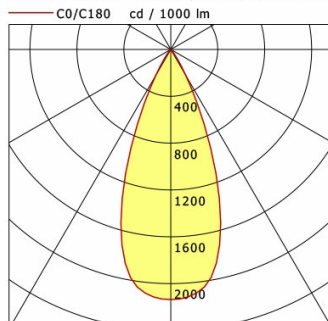
cd / 1000 lm

| Offset [m] | Cone width [m] | Illuminance [lx] |
|------------|----------------|------------------|
| 3.0        | 1.88           | 298.8            |
| 6.0        | 3.77           | 74.7             |
| 9.0        | 5.65           | 33.2             |
| 12.0       | 7.53           | 18.7             |
| 15.0       | 9.42           | 12.0             |

|                    |                    |
|--------------------|--------------------|
| <b>η</b>           | LED                |
| Efficiency         | 70 lm/W            |
| Direct/Indirect    | ↓ 100% / ↑ 0%      |
| System Power       | 15 W               |
| <b>UGR</b>         | X=4H, Y=8H         |
| Reflection factors | 70/50/20           |
| UGR C0/C180        | 11.1               |
| UGR C90/C270       | 11.1               |
| CIE Flux Codes     | 98 100 100 100 100 |
| Ra/CRI             | >80                |

LTS

Dallton Small - Spotlight Insert (DAL-S-RFR 21, 1xLED 15W 840/4000K 1120lm 40 °)



|     | C0   | C90  | C180 | C270 |
|-----|------|------|------|------|
| 0°  | 2136 | 2136 | 2136 | 2136 |
| 15° | 1635 | 1635 | 1635 | 1635 |
| 30° | 257  | 257  | 257  | 257  |
| 45° | 12   | 12   | 12   | 12   |
| 60° | 0    | 0    | 0    | 0    |
| 75° | 0    | 0    | 0    | 0    |
| 90° | 0    | 0    | 0    | 0    |

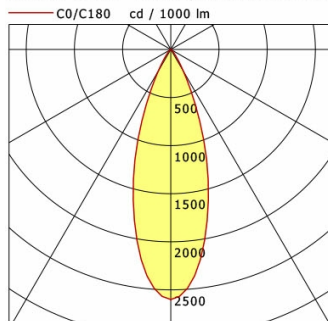
cd / 1000 lm

| Offset [m] | Cone width [m] | Illuminance [lx] |
|------------|----------------|------------------|
| 3.0        | 2.25           | 265.8            |
| 6.0        | 4.49           | 66.4             |
| 9.0        | 6.74           | 29.5             |
| 12.0       | 8.99           | 16.6             |
| 15.0       | 11.23          | 10.6             |

|                    |                    |
|--------------------|--------------------|
| <b>η</b>           | LED                |
| Efficiency         | 75 lm/W            |
| Direct/Indirect    | ↓ 100% / ↑ 0%      |
| System Power       | 15 W               |
| <b>UGR</b>         | X=4H, Y=8H         |
| Reflection factors | 70/50/20           |
| UGR C0/C180        | <10.0              |
| UGR C90/C270       | <10.0              |
| CIE Flux Codes     | 99 100 100 100 100 |
| Ra/CRI             | >80                |

LTS

Dallton Small - Spotlight Insert (DAL-S-RTR 21\_CH, 1xLED 15W 840/4000K 1090lm 40 °)



|     | C0   | C90  | C180 | C270 |
|-----|------|------|------|------|
| 0°  | 2600 | 2600 | 2600 | 2600 |
| 15° | 1510 | 1510 | 1510 | 1510 |
| 30° | 261  | 261  | 261  | 261  |
| 45° | 32   | 32   | 32   | 32   |
| 60° | 0    | 0    | 0    | 0    |
| 75° | 0    | 0    | 0    | 0    |
| 90° | 0    | 0    | 0    | 0    |

cd / 1000 lm

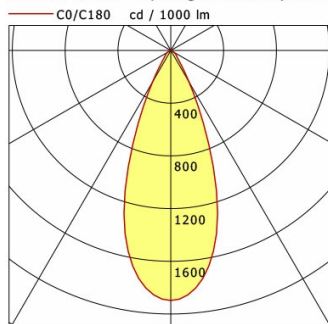
| Offset [m] | Cone width [m] | Illuminance [lx] |
|------------|----------------|------------------|
| 3.0        | 1.84           | 314.9            |
| 6.0        | 3.68           | 78.7             |
| 9.0        | 5.52           | 35.0             |
| 12.0       | 7.36           | 19.7             |
| 15.0       | 9.20           | 12.6             |

|                    |                    |
|--------------------|--------------------|
| <b>η</b>           | LED                |
| Efficiency         | 73 lm/W            |
| Direct/Indirect    | ↓ 100% / ↑ 0%      |
| System Power       | 15 W               |
| <b>UGR</b>         | X=4H, Y=8H         |
| Reflection factors | 70/50/20           |
| UGR C0/C180        | 11.6               |
| UGR C90/C270       | 11.6               |
| CIE Flux Codes     | 97 100 100 100 100 |
| Ra/CRI             | >80                |

LTS

# DAL-S-LK 100.840.40

Dallton Small - Spotlight Insert (DAL-S-RTR 21\_WS-MATT, 1xLED 15W 840/4000K 1110lm 40 °)



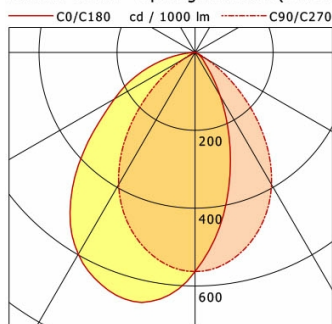
|     | C0   | C90  | C180 | C270 |
|-----|------|------|------|------|
| 0°  | 1898 | 1898 | 1898 | 1898 |
| 15° | 1362 | 1362 | 1362 | 1362 |
| 30° | 276  | 276  | 276  | 276  |
| 45° | 64   | 64   | 64   | 64   |
| 60° | 29   | 29   | 29   | 29   |
| 75° | 5    | 5    | 5    | 5    |
| 90° | 0    | 0    | 0    | 0    |

| Offset [m] | Cone width [m] | Illuminance [lx] |
|------------|----------------|------------------|
| 3.0        | 2.17           | 234.0            |
| 6.0        | 4.35           | 58.5             |
| 9.0        | 6.52           | 26.0             |
| 12.0       | 8.70           | 14.6             |
| 15.0       | 10.87          | 9.4              |

|                    |                   |
|--------------------|-------------------|
| <b>η</b>           | LED               |
| Efficiency         | 74 lm/W           |
| Direct/Indirect    | ↓ 100% / ↑ 0%     |
| System Power       | 15 W              |
| <b>UGR</b>         | X=4H, Y=8H        |
| Reflection factors | 70/50/20          |
| UGR C0/C180        | 17.9              |
| UGR C90/C270       | 17.9              |
| CIE Flux Codes     | 89 97 100 100 100 |
| Ra/CRI             | >80               |

LTS

Dallton Small - Spotlight Insert (DAL-S-RWQ 11, 1xLED 15W 840/4000K 500lm 40 °)



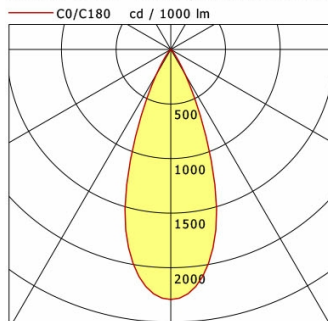
|     | C0  | C90 | C180 | C270 |
|-----|-----|-----|------|------|
| 0°  | 563 | 563 | 563  | 563  |
| 15° | 341 | 516 | 659  | 516  |
| 30° | 129 | 392 | 598  | 392  |
| 45° | 32  | 202 | 429  | 202  |
| 60° | 11  | 35  | 239  | 35   |
| 75° | 3   | 3   | 99   | 3    |
| 90° | 0   | 0   | 0    | 0    |

LDC unsuitable for cone representation.  
Asymmetric LDC.

|                    |                  |
|--------------------|------------------|
| <b>η</b>           | LED              |
| Efficiency         | 33 lm/W          |
| Direct/Indirect    | ↓ 100% / ↑ 0%    |
| System Power       | 15 W             |
| <b>UGR</b>         | X=4H, Y=8H       |
| Reflection factors | 70/50/20         |
| UGR C0/C180        | <10.0            |
| UGR C90/C270       | 21.5             |
| CIE Flux Codes     | 62 89 98 100 100 |
| Ra/CRI             | >80              |

LTS

Dallton Small - Spotlight Insert (DAL-S-RTR 21\_SW-MATT, 1xLED 15W 840/4000K 860lm 40 °)



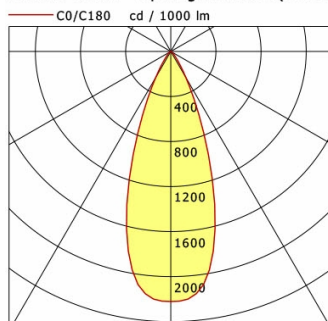
|     | C0   | C90  | C180 | C270 |
|-----|------|------|------|------|
| 0°  | 2292 | 2292 | 2292 | 2292 |
| 15° | 1616 | 1616 | 1616 | 1616 |
| 30° | 262  | 262  | 262  | 262  |
| 45° | 16   | 16   | 16   | 16   |
| 60° | 0    | 0    | 0    | 0    |
| 75° | 0    | 0    | 0    | 0    |
| 90° | 0    | 0    | 0    | 0    |

| Offset [m] | Cone width [m] | Illuminance [lx] |
|------------|----------------|------------------|
| 3.0        | 2.11           | 219.0            |
| 6.0        | 4.23           | 54.7             |
| 9.0        | 6.34           | 24.3             |
| 12.0       | 8.46           | 13.7             |
| 15.0       | 10.57          | 8.8              |

|                    |                    |
|--------------------|--------------------|
| <b>η</b>           | LED                |
| Efficiency         | 57 lm/W            |
| Direct/Indirect    | ↓ 100% / ↑ 0%      |
| System Power       | 15 W               |
| <b>UGR</b>         | X=4H, Y=8H         |
| Reflection factors | 70/50/20           |
| UGR C0/C180        | <10.0              |
| UGR C90/C270       | <10.0              |
| CIE Flux Codes     | 99 100 100 100 100 |
| Ra/CRI             | >80                |

LTS

Dallton Small - Spotlight Insert (DAL-S-RTQ 11\_CH, 1xLED 15W 840/4000K 1010lm 40 °)



|     | C0   | C90  | C180 | C270 |
|-----|------|------|------|------|
| 0°  | 2221 | 2221 | 2221 | 2221 |
| 15° | 1520 | 1520 | 1520 | 1520 |
| 30° | 268  | 268  | 268  | 268  |
| 45° | 39   | 39   | 39   | 39   |
| 60° | 6    | 6    | 6    | 6    |
| 75° | 0    | 0    | 0    | 0    |
| 90° | 0    | 0    | 0    | 0    |

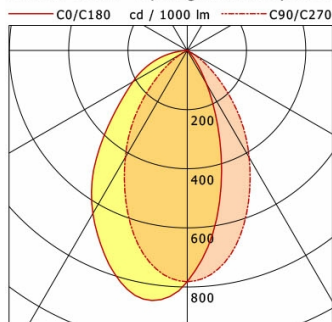
| Offset [m] | Cone width [m] | Illuminance [lx] |
|------------|----------------|------------------|
| 3.0        | 2.04           | 249.3            |
| 6.0        | 4.07           | 62.3             |
| 9.0        | 6.11           | 27.7             |
| 12.0       | 8.14           | 15.6             |
| 15.0       | 10.18          | 10.0             |

|                    |                    |
|--------------------|--------------------|
| <b>η</b>           | LED                |
| Efficiency         | 67 lm/W            |
| Direct/Indirect    | ↓ 100% / ↑ 0%      |
| System Power       | 15 W               |
| <b>UGR</b>         | X=4H, Y=8H         |
| Reflection factors | 70/50/20           |
| UGR C0/C180        | 11.2               |
| UGR C90/C270       | 11.2               |
| CIE Flux Codes     | 96 100 100 100 100 |
| Ra/CRI             | >80                |

LTS

# DAL-S-LK 100.840.40

Dallton Small - Spotlight Insert (DAL-S-RWR 21, 1xLED 15W 840/4000K 640lm 40 °)



|     | C0  | C90 | C180 | C270 |
|-----|-----|-----|------|------|
| 0°  | 782 | 782 | 782  | 782  |
| 15° | 447 | 665 | 825  | 665  |
| 30° | 129 | 417 | 637  | 417  |
| 45° | 17  | 179 | 389  | 179  |
| 60° | 3   | 30  | 211  | 30   |
| 75° | 1   | 2   | 95   | 2    |
| 90° | 0   | 0   | 0    | 0    |

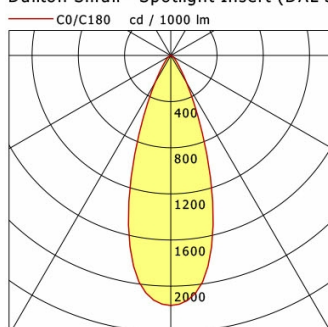
cd / 1000 lm

LDC unsuitable for cone representation.  
Asymmetric LDC.

|                    |                  |
|--------------------|------------------|
| <b>η</b>           | LED              |
| Efficiency         | 43 lm/W          |
| Direct/Indirect    | ↓ 100% / ↑ 0%    |
| System Power       | 15 W             |
| <b>UGR</b>         | X=4H, Y=8H       |
| Reflection factors | 70/50/20         |
| UGR C0/C180        | <10.0            |
| UGR C90/C270       | 22.1             |
| CIE Flux Codes     | 70 91 98 100 100 |
| Ra/CRI             | >80              |

LTS

Dallton Small - Spotlight Insert (DAL-S-RTQ 11\_SI-MATT, 1xLED 15W 840/4000K 970lm 40 °)



|     | C0   | C90  | C180 | C270 |
|-----|------|------|------|------|
| 0°  | 2168 | 2168 | 2168 | 2168 |
| 15° | 1417 | 1417 | 1417 | 1417 |
| 30° | 273  | 273  | 273  | 273  |
| 45° | 61   | 61   | 61   | 61   |
| 60° | 16   | 16   | 16   | 16   |
| 75° | 1    | 1    | 1    | 1    |
| 90° | 0    | 0    | 0    | 0    |

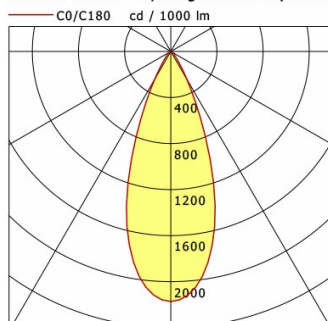
cd / 1000 lm

| Offset [m] | Cone width [m] | Illuminance [lx] |
|------------|----------------|------------------|
| 3.0        | 1.98           | 233.7            |
| 6.0        | 3.96           | 58.4             |
| 9.0        | 5.94           | 26.0             |
| 12.0       | 7.92           | 14.6             |
| 15.0       | 9.90           | 9.3              |

|                    |                   |
|--------------------|-------------------|
| <b>η</b>           | LED               |
| Efficiency         | 65 lm/W           |
| Direct/Indirect    | ↓ 100% / ↑ 0%     |
| System Power       | 15 W              |
| <b>UGR</b>         | X=4H, Y=8H        |
| Reflection factors | 70/50/20          |
| UGR C0/C180        | 13.7              |
| UGR C90/C270       | 13.7              |
| CIE Flux Codes     | 92 99 100 100 100 |
| Ra/CRI             | >80               |

LTS

Dallton Small - Spotlight Insert (DAL-S-RTR 21\_SI-MATT, 1xLED 15W 840/4000K 1020lm 40 °)



|     | C0   | C90  | C180 | C270 |
|-----|------|------|------|------|
| 0°  | 2172 | 2172 | 2172 | 2172 |
| 15° | 1485 | 1485 | 1485 | 1485 |
| 30° | 276  | 276  | 276  | 276  |
| 45° | 45   | 45   | 45   | 45   |
| 60° | 7    | 7    | 7    | 7    |
| 75° | 0    | 0    | 0    | 0    |
| 90° | 0    | 0    | 0    | 0    |

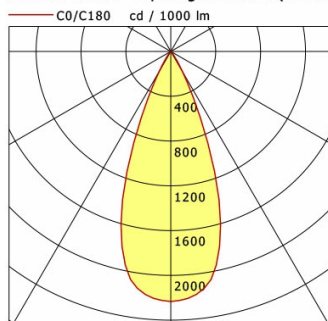
cd / 1000 lm

| Offset [m] | Cone width [m] | Illuminance [lx] |
|------------|----------------|------------------|
| 3.0        | 2.08           | 246.2            |
| 6.0        | 4.16           | 61.5             |
| 9.0        | 6.24           | 27.4             |
| 12.0       | 8.32           | 15.4             |
| 15.0       | 10.40          | 9.8              |

|                    |                    |
|--------------------|--------------------|
| <b>η</b>           | LED                |
| Efficiency         | 68 lm/W            |
| Direct/Indirect    | ↓ 100% / ↑ 0%      |
| System Power       | 15 W               |
| <b>UGR</b>         | X=4H, Y=8H         |
| Reflection factors | 70/50/20           |
| UGR C0/C180        | 13.1               |
| UGR C90/C270       | 13.1               |
| CIE Flux Codes     | 95 100 100 100 100 |
| Ra/CRI             | >80                |

LTS

Dallton Small - Spotlight Insert (DAL-S-RFQ 11, 1xLED 15W 840/4000K 1040lm 40 °)



|     | C0   | C90  | C180 | C270 |
|-----|------|------|------|------|
| 0°  | 2233 | 2233 | 2233 | 2233 |
| 15° | 1707 | 1707 | 1707 | 1707 |
| 30° | 210  | 210  | 210  | 210  |
| 45° | 14   | 14   | 14   | 14   |
| 60° | 3    | 3    | 3    | 3    |
| 75° | 0    | 0    | 0    | 0    |
| 90° | 0    | 0    | 0    | 0    |

cd / 1000 lm

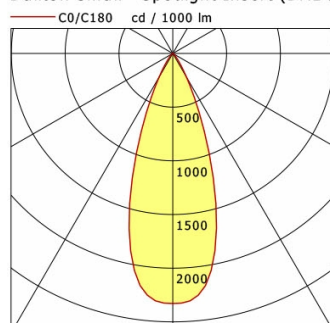
| Offset [m] | Cone width [m] | Illuminance [lx] |
|------------|----------------|------------------|
| 3.0        | 2.21           | 258.1            |
| 6.0        | 4.41           | 64.5             |
| 9.0        | 6.62           | 28.7             |
| 12.0       | 8.82           | 16.1             |
| 15.0       | 11.03          | 10.3             |

|                    |                    |
|--------------------|--------------------|
| <b>η</b>           | LED                |
| Efficiency         | 69 lm/W            |
| Direct/Indirect    | ↓ 100% / ↑ 0%      |
| System Power       | 15 W               |
| <b>UGR</b>         | X=4H, Y=8H         |
| Reflection factors | 70/50/20           |
| UGR C0/C180        | <10.0              |
| UGR C90/C270       | <10.0              |
| CIE Flux Codes     | 98 100 100 100 100 |
| Ra/CRI             | >80                |

LTS

# DAL-S-LK 100.840.40

Dallton Small - Spotlight Insert (DAL-S-RTQ 11\_CH-SW, 1xLED 15W 840/4000K 950lm 40 °)



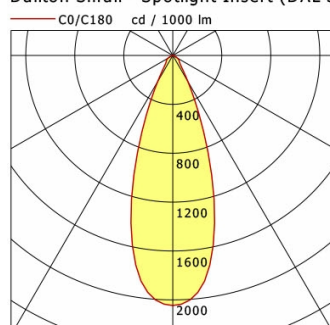
|              | C0   | C90  | C180 | C270 |
|--------------|------|------|------|------|
| 0°           | 2329 | 2329 | 2329 | 2329 |
| 15°          | 1569 | 1569 | 1569 | 1569 |
| 30°          | 254  | 254  | 254  | 254  |
| 45°          | 31   | 31   | 31   | 31   |
| 60°          | 4    | 4    | 4    | 4    |
| 75°          | 0    | 0    | 0    | 0    |
| 90°          | 0    | 0    | 0    | 0    |
| cd / 1000 lm |      |      |      |      |

| Offset [m] | Cone width [m] | Illuminance [lx] |
|------------|----------------|------------------|
| 3.0        | 2.00           | 245.8            |
| 6.0        | 4.01           | 61.5             |
| 9.0        | 6.01           | 27.3             |
| 12.0       | 8.01           | 15.4             |
| 15.0       | 10.02          | 9.8              |

|                    |                    |
|--------------------|--------------------|
| <b>η</b>           | LED                |
| Efficiency         | 63 lm/W            |
| Direct/Indirect    | ↓ 100% / ↑ 0%      |
| System Power       | 15 W               |
| <b>UGR</b>         | X=4H, Y=8H         |
| Reflection factors | 70/50/20           |
| UGR C0/C180        | <10.0              |
| UGR C90/C270       | <10.0              |
| CIE Flux Codes     | 97 100 100 100 100 |
| Ra/CRI             | >80                |

LTS

Dallton Small - Spotlight Insert (DAL-S-RTQ 11\_WS-MATT, 1xLED 15W 840/4000K 980lm 40 °)



|              | C0   | C90  | C180 | C270 |
|--------------|------|------|------|------|
| 0°           | 2046 | 2046 | 2046 | 2046 |
| 15°          | 1319 | 1319 | 1319 | 1319 |
| 30°          | 247  | 247  | 247  | 247  |
| 45°          | 77   | 77   | 77   | 77   |
| 60°          | 43   | 43   | 43   | 43   |
| 75°          | 6    | 6    | 6    | 6    |
| 90°          | 0    | 0    | 0    | 0    |
| cd / 1000 lm |      |      |      |      |

| Offset [m] | Cone width [m] | Illuminance [lx] |
|------------|----------------|------------------|
| 3.0        | 1.96           | 222.8            |
| 6.0        | 3.91           | 55.7             |
| 9.0        | 5.87           | 24.8             |
| 12.0       | 7.82           | 13.9             |
| 15.0       | 9.78           | 8.9              |

|                    |                   |
|--------------------|-------------------|
| <b>η</b>           | LED               |
| Efficiency         | 65 lm/W           |
| Direct/Indirect    | ↓ 100% / ↑ 0%     |
| System Power       | 15 W              |
| <b>UGR</b>         | X=4H, Y=8H        |
| Reflection factors | 70/50/20          |
| UGR C0/C180        | 18.1              |
| UGR C90/C270       | 18.1              |
| CIE Flux Codes     | 86 96 100 100 100 |
| Ra/CRI             | >80               |

LTS

Einbaustrahler · Dallton Small System

DAL-S-LK 100.840.40

Zubehör



DAL-S-ZBW 11.21  
Wabenraster

