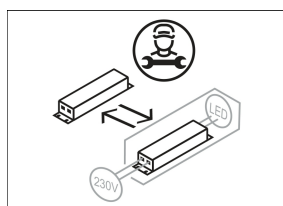
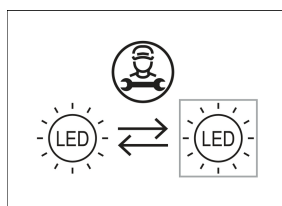


# DAL-L-LK 101.840.35



| Farbe  | Artikelnummer | EAN           |
|--------|---------------|---------------|
| silber | 660959        | 4043544697769 |



## 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
- Sicherung mit Fangseil
- 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

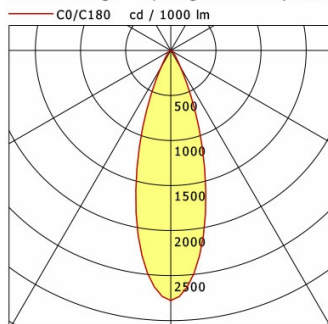
|                            |                                                           |
|----------------------------|-----------------------------------------------------------|
| <b>Leuchtmittel</b>        | LED Spot / CRI 80 / 4000 K                                |
| <b>EPREL Lichtquellen</b>  | 851282                                                    |
| <b>Lebensdauer</b>         | L90 B50 50.000 h<br>L80 B50 100.000 h<br>L80 B20 50.000 h |
| <b>Systemleistung</b>      | 28.0 W                                                    |
| <b>Leuchten-Lichtstrom</b> | max. 2320 lm                                              |
| <b>Systemeffizienz</b>     | 74.64 lm/W                                                |
| <b>Moduleffizienz</b>      | 162.17 lm/W                                               |
| <b>UGR Klasse</b>          | ≤16                                                       |
| <b>Abstrahlwinkel</b>      | 35°                                                       |
| <b>Versorgungsspannung</b> | 220 - 240 V / 50 - 60 Hz                                  |
| <b>Schutzklasse</b>        | III                                                       |
| <b>Schutzart</b>           | IP20                                                      |

## Abmessungen / Gewichte

|                              |         |
|------------------------------|---------|
| <b>Außendurchmesser</b>      | 124 mm  |
| <b>Höhe</b>                  | 149 mm  |
| <b>Einbautiefe</b>           | 200 mm  |
| <b>Durchmesser Lichtkopf</b> | 124 mm  |
| <b>Nettogewicht</b>          | 1.26 kg |
| <b>Bruttogewicht</b>         | 1.33 kg |

# DAL-L-LK 101.840.35

Dallton Large - Spotlight Insert (DAL-L-RTR 23\_SI-MATT, 1xLED 28W 840/4000K 2090lm 35 °)



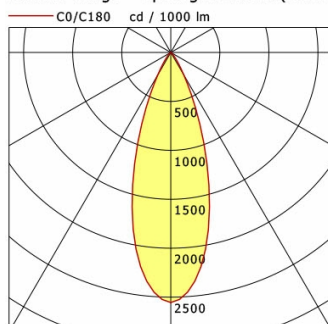
|     | C0   | C90  | C180 | C270 |
|-----|------|------|------|------|
| 0°  | 2777 | 2777 | 2777 | 2777 |
| 15° | 1479 | 1479 | 1479 | 1479 |
| 30° | 214  | 214  | 214  | 214  |
| 45° | 54   | 54   | 54   | 54   |
| 60° | 12   | 12   | 12   | 12   |
| 75° | 1    | 1    | 1    | 1    |
| 90° | 0    | 0    | 0    | 0    |

| Offset [m] | Cone width [m] | Illuminance [lx] |
|------------|----------------|------------------|
| 3.0        | 1.69           | 644.8            |
| 6.0        | 3.39           | 161.2            |
| 9.0        | 5.08           | 71.6             |
| 12.0       | 6.78           | 40.3             |
| 15.0       | 8.47           | 25.8             |

|                    |                   |
|--------------------|-------------------|
| <b>η</b>           | LED               |
| Efficiency         | 75 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        | 13.3              |
| UGR C90/C270       | 13.3              |
| CIE Flux Codes     | 94 99 100 100 100 |
| Ra/CRI             | >80               |

LTS

Dallton Large - Spotlight Insert (DAL-L-RTR 23\_SW-MATT, 1xLED 28W 840/4000K 1640lm 35 °)



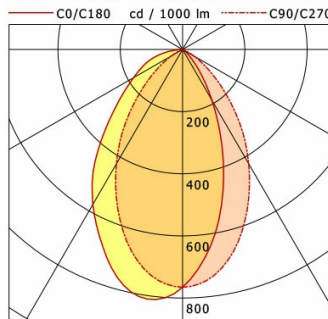
|     | C0   | C90  | C180 | C270 |
|-----|------|------|------|------|
| 0°  | 2555 | 2555 | 2555 | 2555 |
| 15° | 1520 | 1520 | 1520 | 1520 |
| 30° | 265  | 265  | 265  | 265  |
| 45° | 30   | 30   | 30   | 30   |
| 60° | 0    | 0    | 0    | 0    |
| 75° | 0    | 0    | 0    | 0    |
| 90° | 0    | 0    | 0    | 0    |

| Offset [m] | Cone width [m] | Illuminance [lx] |
|------------|----------------|------------------|
| 3.0        | 1.86           | 465.5            |
| 6.0        | 3.72           | 116.4            |
| 9.0        | 5.57           | 51.7             |
| 12.0       | 7.43           | 29.1             |
| 15.0       | 9.29           | 18.6             |

|                    |                    |
|--------------------|--------------------|
| <b>η</b>           | LED                |
| Efficiency         | 59 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        | 10.1               |
| UGR C90/C270       | 10.1               |
| CIE Flux Codes     | 98 100 100 100 100 |
| Ra/CRI             | >80                |

LTS

Dallton Large - Spotlight Insert (DAL-L-RWR 23, 1xLED 28W 840/4000K 1230lm 35 °)



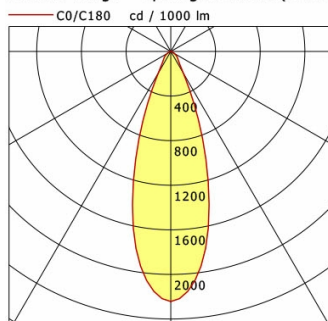
|     | C0  | C90 | C180 | C270 |
|-----|-----|-----|------|------|
| 0°  | 766 | 766 | 766  | 766  |
| 15° | 494 | 659 | 773  | 659  |
| 30° | 189 | 425 | 576  | 425  |
| 45° | 37  | 189 | 341  | 189  |
| 60° | 5   | 42  | 182  | 42   |
| 75° | 1   | 4   | 91   | 4    |
| 90° | 0   | 0   | 0    | 0    |

 LDC unsuitable for cone representation.  
 Asymmetric LDC.

|                    |                  |
|--------------------|------------------|
| <b>η</b>           | LED              |
| Efficiency         | 44 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        | 10.5             |
| UGR C90/C270       | 21.8             |
| CIE Flux Codes     | 70 91 98 100 100 |
| Ra/CRI             | >80              |

LTS

Dallton Large - Spotlight Insert (DAL-L-RTR 23\_WS-MATT, 1xLED 28W 840/4000K 2320lm 35 °)



|     | C0   | C90  | C180 | C270 |
|-----|------|------|------|------|
| 0°  | 2243 | 2243 | 2243 | 2243 |
| 15° | 1316 | 1316 | 1316 | 1316 |
| 30° | 223  | 223  | 223  | 223  |
| 45° | 86   | 86   | 86   | 86   |
| 60° | 38   | 38   | 38   | 38   |
| 75° | 7    | 7    | 7    | 7    |
| 90° | 0    | 0    | 0    | 0    |

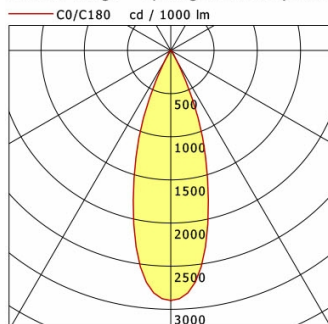
| Offset [m] | Cone width [m] | Illuminance [lx] |
|------------|----------------|------------------|
| 3.0        | 1.83           | 578.2            |
| 6.0        | 3.66           | 144.5            |
| 9.0        | 5.48           | 64.2             |
| 12.0       | 7.31           | 36.1             |
| 15.0       | 9.14           | 23.1             |

|                    |                   |
|--------------------|-------------------|
| <b>η</b>           | LED               |
| Efficiency         | 83 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        | 19.1              |
| UGR C90/C270       | 19.1              |
| CIE Flux Codes     | 86 97 100 100 100 |
| Ra/CRI             | >80               |

LTS

# DAL-L-LK 101.840.35

Dallton Large - Spotlight Insert (DAL-L-RFR 23, 1xLED 28W 840/4000K 2050lm 35 °)



|     | C0   | C90  | C180 | C270 |
|-----|------|------|------|------|
| 0°  | 2898 | 2898 | 2898 | 2898 |
| 15° | 1667 | 1667 | 1667 | 1667 |
| 30° | 140  | 140  | 140  | 140  |
| 45° | 21   | 21   | 21   | 21   |
| 60° | 0    | 0    | 0    | 0    |
| 75° | 0    | 0    | 0    | 0    |
| 90° | 0    | 0    | 0    | 0    |

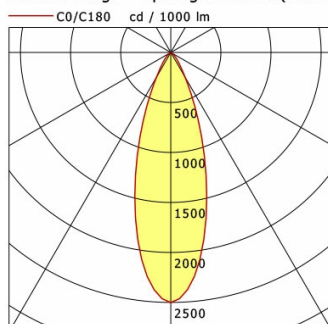
cd / 1000 lm

| Offset [m] | Cone width [m] | Illuminance [lx] |
|------------|----------------|------------------|
| 3.0        | 1.81           | 660.1            |
| 6.0        | 3.62           | 165.0            |
| 9.0        | 5.43           | 73.3             |
| 12.0       | 7.24           | 41.3             |
| 15.0       | 9.05           | 26.4             |

|                    |                    |
|--------------------|--------------------|
| <b>η</b>           | LED                |
| Efficiency         | 73 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        | <10.0              |
| UGR C90/C270       | <10.0              |
| CIE Flux Codes     | 98 100 100 100 100 |
| Ra/CRI             | >80                |

LTS

Dallton Large - Spotlight Insert (DAL-L-RTR 23\_CH, 1xLED 28W 840/4000K 2290lm 35 °)



|     | C0   | C90  | C180 | C270 |
|-----|------|------|------|------|
| 0°  | 2501 | 2501 | 2501 | 2501 |
| 15° | 1380 | 1380 | 1380 | 1380 |
| 30° | 284  | 284  | 284  | 284  |
| 45° | 65   | 65   | 65   | 65   |
| 60° | 0    | 0    | 0    | 0    |
| 75° | 0    | 0    | 0    | 0    |
| 90° | 0    | 0    | 0    | 0    |

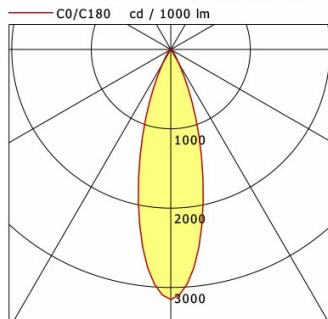
cd / 1000 lm

| Offset [m] | Cone width [m] | Illuminance [lx] |
|------------|----------------|------------------|
| 3.0        | 1.75           | 636.3            |
| 6.0        | 3.51           | 159.1            |
| 9.0        | 5.26           | 70.7             |
| 12.0       | 7.01           | 39.8             |
| 15.0       | 8.77           | 25.5             |

|                    |                    |
|--------------------|--------------------|
| <b>η</b>           | LED                |
| Efficiency         | 82 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        | 14.1               |
| UGR C90/C270       | 14.1               |
| CIE Flux Codes     | 95 100 100 100 100 |
| Ra/CRI             | >80                |

LTS

Dallton Large - Spotlight Insert (DAL-L-RTR 23\_CH-SW, 1xLED 28W 840/4000K 2210lm 35 °)



|     | C0   | C90  | C180 | C270 |
|-----|------|------|------|------|
| 0°  | 3152 | 3152 | 3152 | 3152 |
| 15° | 1534 | 1534 | 1534 | 1534 |
| 30° | 202  | 202  | 202  | 202  |
| 45° | 41   | 41   | 41   | 41   |
| 60° | 0    | 0    | 0    | 0    |
| 75° | 0    | 0    | 0    | 0    |
| 90° | 0    | 0    | 0    | 0    |

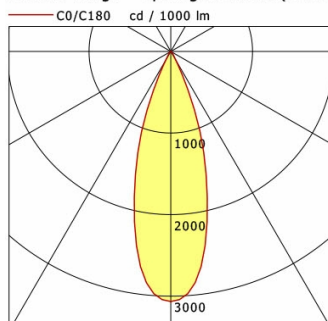
cd / 1000 lm

| Offset [m] | Cone width [m] | Illuminance [lx] |
|------------|----------------|------------------|
| 3.0        | 1.57           | 773.9            |
| 6.0        | 3.15           | 193.5            |
| 9.0        | 4.72           | 86.0             |
| 12.0       | 6.30           | 48.4             |
| 15.0       | 7.87           | 31.0             |

|                    |                    |
|--------------------|--------------------|
| <b>η</b>           | LED                |
| Efficiency         | 79 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        | 10.9               |
| UGR C90/C270       | 10.9               |
| CIE Flux Codes     | 97 100 100 100 100 |
| Ra/CRI             | >80                |

LTS

Dallton Large - Spotlight Insert (DAL-L-RFQ 13, 1xLED 28W 840/4000K 1950lm 35 °)



|     | C0   | C90  | C180 | C270 |
|-----|------|------|------|------|
| 0°  | 3066 | 3066 | 3066 | 3066 |
| 15° | 1704 | 1704 | 1704 | 1704 |
| 30° | 123  | 123  | 123  | 123  |
| 45° | 23   | 23   | 23   | 23   |
| 60° | 2    | 2    | 2    | 2    |
| 75° | 0    | 0    | 0    | 0    |
| 90° | 0    | 0    | 0    | 0    |

cd / 1000 lm

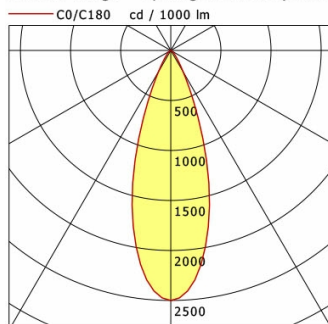
| Offset [m] | Cone width [m] | Illuminance [lx] |
|------------|----------------|------------------|
| 3.0        | 1.75           | 664.2            |
| 6.0        | 3.51           | 166.0            |
| 9.0        | 5.26           | 73.8             |
| 12.0       | 7.01           | 41.5             |
| 15.0       | 8.77           | 26.6             |

|                    |                    |
|--------------------|--------------------|
| <b>η</b>           | LED                |
| Efficiency         | 70 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        | <10.0              |
| UGR C90/C270       | <10.0              |
| CIE Flux Codes     | 98 100 100 100 100 |
| Ra/CRI             | >80                |

LTS

# DAL-L-LK 101.840.35

Dallton Large - Spotlight Insert (DAL-L-RTQ 13\_CH, 1xLED 28W 840/4000K 2070lm 35 °)



|     | C0   | C90  | C180 | C270 |
|-----|------|------|------|------|
| 0°  | 2500 | 2500 | 2500 | 2500 |
| 15° | 1489 | 1489 | 1489 | 1489 |
| 30° | 247  | 247  | 247  | 247  |
| 45° | 51   | 51   | 51   | 51   |
| 60° | 10   | 10   | 10   | 10   |
| 75° | 0    | 0    | 0    | 0    |
| 90° | 0    | 0    | 0    | 0    |

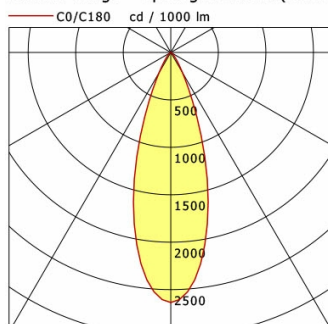
cd / 1000 lm

| Offset [m] | Cone width [m] | Illuminance [lx] |
|------------|----------------|------------------|
| 3.0        | 1.85           | 575.1            |
| 6.0        | 3.70           | 143.8            |
| 9.0        | 5.55           | 63.9             |
| 12.0       | 7.40           | 35.9             |
| 15.0       | 9.25           | 23.0             |

|                    |                    |
|--------------------|--------------------|
| <b>η</b>           | LED                |
| Efficiency         | 74 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        | 11.8               |
| UGR C90/C270       | 11.8               |
| CIE Flux Codes     | 94 100 100 100 100 |
| Ra/CRI             | >80                |

LTS

Dallton Large - Spotlight Insert (DAL-L-RTQ 13\_CH-SW, 1xLED 28W 840/4000K 1770lm 35 °)



|     | C0   | C90  | C180 | C270 |
|-----|------|------|------|------|
| 0°  | 2636 | 2636 | 2636 | 2636 |
| 15° | 1510 | 1510 | 1510 | 1510 |
| 30° | 245  | 245  | 245  | 245  |
| 45° | 44   | 44   | 44   | 44   |
| 60° | 6    | 6    | 6    | 6    |
| 75° | 0    | 0    | 0    | 0    |
| 90° | 0    | 0    | 0    | 0    |

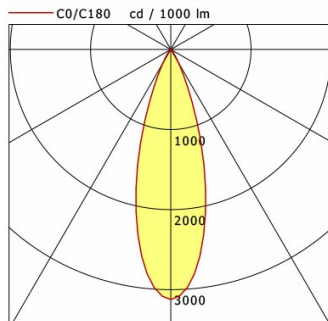
cd / 1000 lm

| Offset [m] | Cone width [m] | Illuminance [lx] |
|------------|----------------|------------------|
| 3.0        | 1.79           | 518.4            |
| 6.0        | 3.58           | 129.6            |
| 9.0        | 5.38           | 57.6             |
| 12.0       | 7.17           | 32.4             |
| 15.0       | 8.96           | 20.7             |

|                    |                    |
|--------------------|--------------------|
| <b>η</b>           | LED                |
| Efficiency         | 63 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        | 10.3               |
| UGR C90/C270       | 10.3               |
| CIE Flux Codes     | 96 100 100 100 100 |
| Ra/CRI             | >80                |

LTS

Dallton Large - Spotlight Insert (DAL-L-RTQ 13\_SW-MATT, 1xLED 28W 840/4000K 1450lm 35 °)



|     | C0   | C90  | C180 | C270 |
|-----|------|------|------|------|
| 0°  | 3123 | 3123 | 3123 | 3123 |
| 15° | 1646 | 1646 | 1646 | 1646 |
| 30° | 195  | 195  | 195  | 195  |
| 45° | 22   | 22   | 22   | 22   |
| 60° | 0    | 0    | 0    | 0    |
| 75° | 0    | 0    | 0    | 0    |
| 90° | 0    | 0    | 0    | 0    |

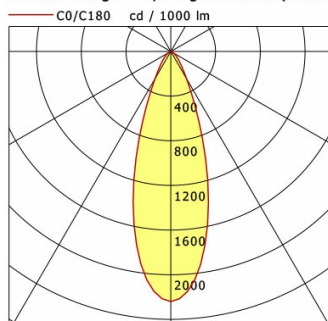
cd / 1000 lm

| Offset [m] | Cone width [m] | Illuminance [lx] |
|------------|----------------|------------------|
| 3.0        | 1.67           | 503.1            |
| 6.0        | 3.35           | 125.8            |
| 9.0        | 5.02           | 55.9             |
| 12.0       | 6.69           | 31.4             |
| 15.0       | 8.36           | 20.1             |

|                    |                    |
|--------------------|--------------------|
| <b>η</b>           | LED                |
| Efficiency         | 52 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        | <10.0              |
| UGR C90/C270       | <10.0              |
| CIE Flux Codes     | 98 100 100 100 100 |
| Ra/CRI             | >80                |

LTS

Dallton Large - Spotlight Insert (DAL-L-RTQ 13\_SI-MATT, 1xLED 28W 840/4000K 1820lm 35 °)



|     | C0   | C90  | C180 | C270 |
|-----|------|------|------|------|
| 0°  | 2240 | 2240 | 2240 | 2240 |
| 15° | 1295 | 1295 | 1295 | 1295 |
| 30° | 281  | 281  | 281  | 281  |
| 45° | 86   | 86   | 86   | 86   |
| 60° | 23   | 23   | 23   | 23   |
| 75° | 1    | 1    | 1    | 1    |
| 90° | 0    | 0    | 0    | 0    |

cd / 1000 lm

| Offset [m] | Cone width [m] | Illuminance [lx] |
|------------|----------------|------------------|
| 3.0        | 1.81           | 453.0            |
| 6.0        | 3.62           | 113.2            |
| 9.0        | 5.43           | 50.3             |
| 12.0       | 7.25           | 28.3             |
| 15.0       | 9.06           | 18.1             |

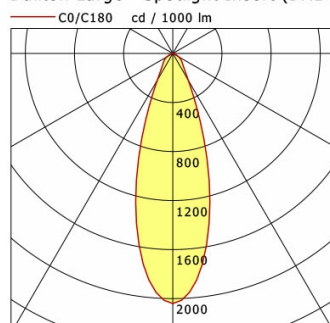
|                    |                   |
|--------------------|-------------------|
| <b>η</b>           | LED               |
| Efficiency         | 65 lm/W           |
| Direct/Indirect    | ↓ 100% / ↑ 0%     |
| System Power       | 28 W              |
| <b>UGR</b>         | X=4H, Y=8H        |
| Reflection factors | 70/50/20          |
| UGR C0/C180        | 14.9              |
| UGR C90/C270       | 14.9              |
| CIE Flux Codes     | 89 99 100 100 100 |
| Ra/CRI             | >80               |

LTS



# DAL-L-LK 101.840.35

Dallton Large - Spotlight Insert (DAL-L-RTQ 13\_WS-MATT, 1xLED 28W 840/4000K 2060lm 35 °)



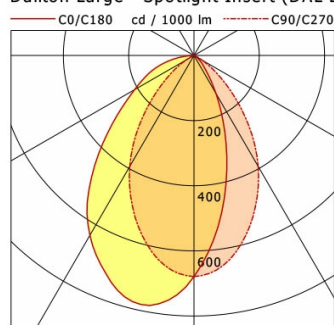
|              | C0   | C90  | C180 | C270 |
|--------------|------|------|------|------|
| 0°           | 2040 | 2040 | 2040 | 2040 |
| 15°          | 1162 | 1162 | 1162 | 1162 |
| 30°          | 252  | 252  | 252  | 252  |
| 45°          | 109  | 109  | 109  | 109  |
| 60°          | 57   | 57   | 57   | 57   |
| 75°          | 8    | 8    | 8    | 8    |
| 90°          | 0    | 0    | 0    | 0    |
| cd / 1000 lm |      |      |      |      |

| Offset [m] | Cone width [m] | Illuminance [lx] |
|------------|----------------|------------------|
| 3.0        | 1.79           | 466.9            |
| 6.0        | 3.58           | 116.7            |
| 9.0        | 5.37           | 51.9             |
| 12.0       | 7.16           | 29.2             |
| 15.0       | 8.95           | 18.7             |

|                    |                   |
|--------------------|-------------------|
| <b>η</b>           | LED               |
| Efficiency         | 74 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        | 19.6              |
| UGR C90/C270       | 19.6              |
| CIE Flux Codes     | 81 95 100 100 100 |
| Ra/CRI             | >80               |

LTS

Dallton Large - Spotlight Insert (DAL-L-RWQ 13, 1xLED 28W 840/4000K 1110lm 35 °)



|              | C0  | C90 | C180 | C270 |
|--------------|-----|-----|------|------|
| 0°           | 679 | 679 | 679  | 679  |
| 15°          | 385 | 586 | 776  | 586  |
| 30°          | 135 | 393 | 637  | 393  |
| 45°          | 35  | 170 | 404  | 170  |
| 60°          | 5   | 28  | 210  | 28   |
| 75°          | 1   | 3   | 101  | 3    |
| 90°          | 0   | 0   | 0    | 0    |
| cd / 1000 lm |     |     |      |      |

LDC unsuitable for cone representation.  
Asymmetric LDC.

|                    |                  |
|--------------------|------------------|
| <b>η</b>           | LED              |
| Efficiency         | 40 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        | <10.0            |
| UGR C90/C270       | 21.0             |
| CIE Flux Codes     | 66 89 98 100 100 |
| Ra/CRI             | >80              |

LTS

Einbaustrahler · Dallton Large System

DAL-L-LK 101.840.35

Zubehör



DAL-L-ZBW 13.23  
Wabenraster

