# Lichttechnischer Prüfbefund

**Familie**

## Trunking Flex 31

## Bestell-Nr.: 51RF18MB49XG5
## EAN: 4069025537027

| | |
|---|---|
| **Ausführung** | primäre Lichtlenkung mit Linse, klar, PMMA, medium strahlend |
| **Bestückung** | LED 4000 K \| CRI ≥ 80 |
| **Betriebsgerät** | EVG-Multilumen |
| **Bemessungswerte** | Nettolichtstrom = 9030 lm<br>Systemleistung = 50.7 W<br>Lichtausbeute = 178.1 lm/W |

**LP-Nummer**
**59334_94**

**Seriendokumentation**
**08.08.2025**

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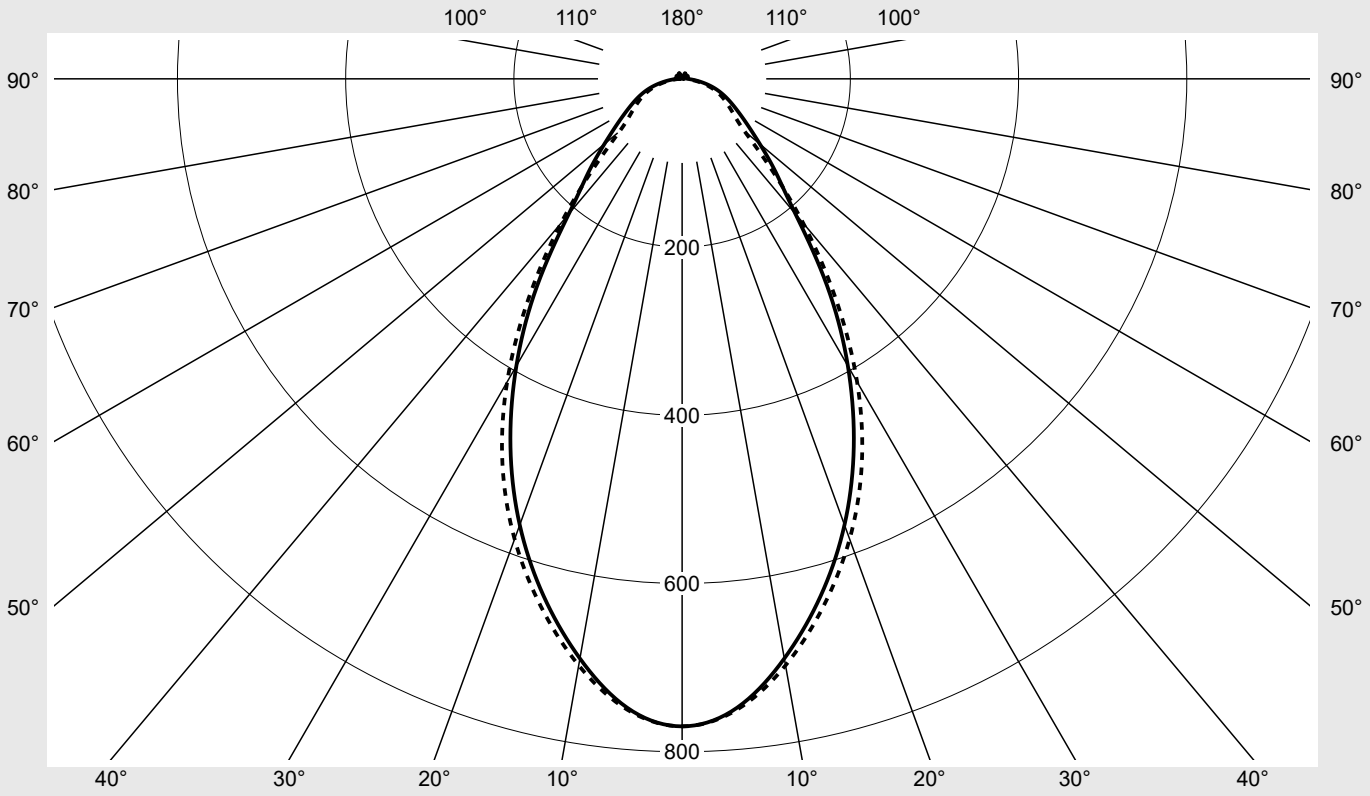
**Lichtstärke in cd/klm** C180-0 C270-90 **Imax: 770 cd/klm**




**Klassifizierungen**

| | |
|---|---|
| DIN 5040 | A 5 2 |
| CIE | N1=71 N2=89 N3=97 N4=97 N5=100 |

**Leuchtenbetriebswirkungsgrade**

| | |
|---|---|
| $\eta_{LB}$ | 100,0% |
| $\phi_u$ | 96,8% |
| $\phi_o$ | 3,2% |

**Messbedingungen**

DIN EN 13032 und DIN 5032

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## Wertetabelle Lichtstärkemessung

Maximale Lichtstärke

| C-Ebenen | 0° 180° | 15° 165° 195° 345° | 30° 150° 210° 330° | 45° 135° 225° 315° | 60° 120° 240° 300° | 75° 105° 255° 285° | 90° 270° | Phi-Zone | Summe Phi-Zone |
|---|---|---|---|---|---|---|---|---|---|
| γ | Lichtstärke in cd/klm | | | | | | | Lichtstrom in lm/klm | |
| 0° | 769.8 | 769.8 | 769.8 | 769.8 | 769.8 | 769.8 | 769.8 | 4.6 | 4.6 |
| 5° | 750.5 | 750.8 | 751.0 | 751.1 | 751.5 | 752.0 | 752.6 | 35.9 | 40.5 |
| 10° | 699.8 | 700.6 | 701.6 | 702.7 | 704.7 | 706.5 | 708.1 | 66.9 | 107.4 |
| 15° | 636.4 | 638.3 | 639.3 | 639.4 | 641.6 | 644.9 | 649.2 | 90.9 | 198.4 |
| 20° | 564.4 | 568.9 | 570.3 | 568.4 | 569.0 | 573.7 | 582.3 | 107.0 | 305.4 |
| 25° | 482.9 | 489.3 | 491.0 | 488.2 | 487.1 | 492.8 | 505.4 | 113.6 | 419.0 |
| 30° | 394.1 | 398.1 | 399.5 | 398.3 | 397.9 | 403.8 | 416.0 | 109.8 | 528.7 |
| 35° | 300.6 | 301.5 | 301.8 | 301.7 | 304.2 | 309.6 | 317.7 | 95.8 | 624.5 |
| 40° | 209.5 | 209.2 | 209.1 | 209.3 | 214.0 | 218.8 | 223.9 | 75.0 | 699.5 |
| 45° | 157.8 | 146.3 | 142.8 | 147.3 | 155.5 | 155.1 | 146.2 | 58.1 | 757.6 |
| 50° | 120.7 | 109.0 | 105.6 | 110.3 | 116.9 | 112.5 | 96.9 | 46.4 | 804.0 |
| 55° | 94.5 | 85.7 | 83.1 | 86.7 | 91.1 | 87.4 | 75.9 | 38.9 | 842.8 |
| 60° | 76.1 | 70.2 | 68.5 | 71.0 | 73.3 | 70.8 | 63.5 | 33.5 | 876.4 |
| 65° | 62.1 | 58.4 | 57.3 | 58.8 | 59.8 | 58.0 | 53.5 | 29.0 | 905.3 |
| 70° | 49.8 | 47.5 | 46.7 | 47.4 | 47.4 | 46.0 | 43.1 | 24.2 | 929.5 |
| 75° | 37.3 | 35.8 | 35.2 | 35.3 | 34.8 | 33.6 | 31.6 | 18.5 | 948.0 |
| 80° | 24.2 | 23.4 | 23.0 | 22.8 | 22.2 | 21.1 | 19.5 | 12.1 | 960.0 |
| 85° | 13.1 | 12.7 | 12.2 | 11.7 | 10.8 | 9.8 | 8.5 | 6.2 | 966.2 |
| 90° | 6.4 | 6.3 | 6.0 | 5.6 | 4.9 | 4.1 | 3.2 | 2.9 | 969.1 |
| 95° | 5.8 | 5.7 | 5.4 | 4.9 | 4.2 | 3.5 | 3.0 | 2.6 | 971.7 |
| 100° | 5.9 | 5.7 | 5.6 | 5.5 | 4.4 | 3.6 | 3.0 | 2.6 | 974.3 |
| 105° | 7.0 | 6.6 | 6.2 | 5.8 | 4.5 | 3.7 | 3.3 | 2.8 | 977.1 |
| 110° | 6.9 | 7.0 | 6.6 | 5.6 | 4.5 | 3.8 | 3.6 | 2.8 | 980.0 |
| 115° | 7.4 | 6.5 | 5.9 | 5.4 | 4.6 | 4.2 | 3.9 | 2.7 | 982.6 |
| 120° | 7.2 | 6.5 | 5.8 | 5.4 | 4.8 | 4.4 | 4.3 | 2.6 | 985.2 |
| 125° | 6.6 | 6.4 | 6.1 | 5.6 | 5.0 | 4.7 | 4.7 | 2.5 | 987.7 |
| 130° | 6.6 | 6.5 | 6.2 | 5.8 | 5.3 | 5.1 | 5.1 | 2.4 | 990.2 |
| 135° | 6.7 | 6.6 | 6.3 | 6.0 | 5.6 | 5.4 | 5.4 | 2.3 | 992.5 |
| 140° | 6.9 | 6.8 | 6.5 | 6.1 | 5.9 | 5.8 | 5.8 | 2.2 | 994.7 |
| 145° | 7.0 | 6.9 | 6.6 | 6.2 | 6.1 | 6.1 | 6.1 | 2.0 | 996.7 |
| 150° | 6.9 | 6.7 | 6.5 | 6.4 | 6.3 | 6.3 | 6.3 | 1.8 | 998.5 |
| 155° | 6.7 | 6.6 | 6.6 | 6.6 | 6.5 | 6.5 | 6.5 | 1.5 | 1000.0 |
| 160° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1000.0 |
| 165° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1000.0 |
| 170° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1000.0 |
| 175° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1000.0 |
| 180° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1000.0 |

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## UGR-Tabelle

Standardraum

| Reflexionsgrad Decke | | 0,7 | 0,7 | 0,5 | 0,5 | 0,3 | 0,7 | 0,7 | 0,5 | 0,5 | 0,3 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Reflexionsgrad Wände | | 0,5 | 0,3 | 0,5 | 0,3 | 0,3 | 0,5 | 0,3 | 0,5 | 0,3 | 0,3 |
| Reflexionsgrad Boden | | 0,2 | 0,2 | 0,2 | 0,2 | 0,2 | 0,2 | 0,2 | 0,2 | 0,2 | 0,2 |
| Raumabmessungen x | y | Blickrichtung quer zur Leuchte (C0) | | | | | Blickrichtung längs zur Leuchte (C90) | | | | |
| 2H | 2H | 20,4 | 21,9 | 20,8 | 22,2 | 22,5 | 20,6 | 22,1 | 21,0 | 22,4 | 22,7 |
| | 3H | 21,6 | 22,9 | 22,0 | 23,3 | 23,6 | 21,8 | 23,1 | 22,2 | 23,4 | 23,8 |
| | 4H | 22,2 | 23,4 | 22,6 | 23,8 | 24,2 | 22,4 | 23,6 | 22,7 | 23,9 | 24,3 |
| | 6H | 22,7 | 23,8 | 23,1 | 24,2 | 24,6 | 22,8 | 23,9 | 23,2 | 24,3 | 24,6 |
| | 8H | 22,9 | 23,9 | 23,4 | 24,3 | 24,7 | 23,0 | 24,0 | 23,4 | 24,4 | 24,8 |
| | 12H | 23,1 | 24,0 | 23,5 | 24,4 | 24,8 | 23,1 | 24,0 | 23,5 | 24,4 | 24,8 |
| 4H | 2H | 20,9 | 22,1 | 21,3 | 22,5 | 22,8 | 21,1 | 22,3 | 21,5 | 22,7 | 23,0 |
| | 3H | 22,4 | 23,4 | 22,8 | 23,8 | 24,2 | 22,5 | 23,5 | 23,0 | 23,9 | 24,3 |
| | 4H | 23,1 | 24,0 | 23,5 | 24,4 | 24,8 | 23,2 | 24,1 | 23,7 | 24,5 | 25,0 |
| | 6H | 23,7 | 24,5 | 24,1 | 24,9 | 25,3 | 23,8 | 24,6 | 24,2 | 25,0 | 25,5 |
| | 8H | 23,9 | 24,6 | 24,4 | 25,1 | 25,5 | 24,0 | 24,7 | 24,5 | 25,1 | 25,6 |
| | 12H | 24,1 | 24,7 | 24,6 | 25,2 | 25,7 | 24,1 | 24,7 | 24,6 | 25,2 | 25,7 |
| 8H | 4H | 23,4 | 24,1 | 23,9 | 24,5 | 25,0 | 23,5 | 24,2 | 24,0 | 24,7 | 25,1 |
| | 6H | 24,1 | 24,7 | 24,6 | 25,2 | 25,7 | 24,2 | 24,8 | 24,7 | 25,3 | 25,8 |
| | 8H | 24,4 | 24,9 | 24,9 | 25,4 | 25,9 | 24,5 | 25,0 | 25,0 | 25,5 | 26,0 |
| | 12H | 24,6 | 25,1 | 25,2 | 25,6 | 26,1 | 24,7 | 25,1 | 25,2 | 25,6 | 26,1 |
| 12H | 4H | 23,4 | 24,0 | 23,9 | 24,5 | 25,0 | 23,6 | 24,2 | 24,0 | 24,6 | 25,1 |
| | 6H | 24,2 | 24,7 | 24,7 | 25,2 | 25,7 | 24,3 | 24,8 | 24,8 | 25,3 | 25,8 |
| | 8H | 24,5 | 24,9 | 25,0 | 25,4 | 26,0 | 24,6 | 25,0 | 25,1 | 25,5 | 26,0 |

## Leuchtdichten-Tabelle

Max. für $\gamma >= 65°$

Lichttechnische Abmessungen in mm: L = 1433, B = 61; H(C0) = 5, H(C90) = 5; H(C180) = 5, H(C270) = 5

| C-Ebenen | 0° 180° | 15° 165° 195° 345° | 30° 150° 210° 330° | 45° 135° 225° 315° | 60° 120° 240° 300° | 75° 105° 255° 285° | 90° 270° |
|---|---|---|---|---|---|---|---|
| γ | Leuchtdichte in cd/m² | | | | | | |
| 45° | 21305.4 | 19786.1 | 19447.3 | 20298.8 | 21754.0 | 22110.3 | 21279.2 |
| 50° | 17673.0 | 15997.8 | 15615.3 | 16541.1 | 17856.1 | 17557.8 | 15506.4 |
| 55° | 15241.5 | 13848.5 | 13556.5 | 14381.7 | 15429.7 | 15214.2 | 13601.7 |
| 60° | 13761.5 | 12741.3 | 12576.8 | 13283.3 | 14076.4 | 14035.6 | 13047.0 |
| 65° | 12908.6 | 12186.0 | 12123.3 | 12733.9 | 13346.7 | 13459.5 | 12976.3 |
| 70° | 12268.3 | 11749.6 | 11751.2 | 12285.9 | 12783.1 | 13017.2 | 12905.6 |
| 75° | 11392.6 | 11008.5 | 11039.1 | 11496.6 | 11937.3 | 12276.1 | 12441.4 |
| 80° | 9822.2 | 9584.1 | 9673.1 | 10104.9 | 10558.1 | 10996.0 | 11353.2 |
| 85° | 8043.4 | 7862.4 | 7909.1 | 8191.9 | 8533.5 | 9040.7 | 9727.1 |

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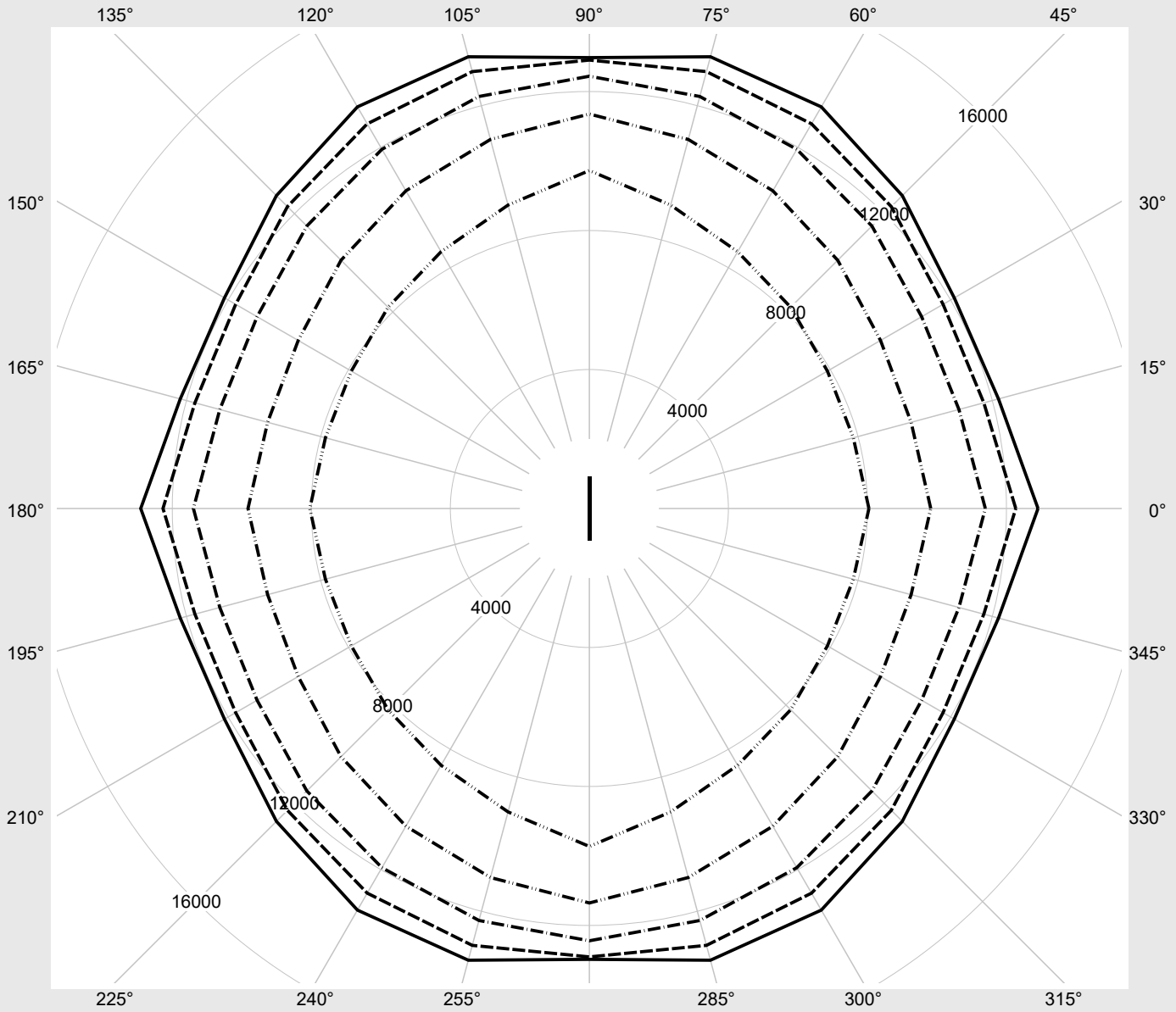
**Leuchtdichten in cd/m²** γ 65° γ 70° γ 75° γ 80° γ 85°



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### Multilumen-Tabelle

**Umgebungstemperatur: 25°C**

| DIP-Stufe | Schalterstellung 1 | 2 | 3 | 4 | Lichtstrom [lm] | Systemleistung [W] |
|---|---|---|---|---|---|---|
| 13 | ON | ON | OFF | ON | 9030 | 50.7 |
| 10 | ON | OFF | ON | OFF | 7520 | 42.7 |
| 8 | ON | OFF | OFF | OFF | 6630 | 37.5 |
| 6 | OFF | ON | ON | OFF | 5700 | 32.2 |
| 4 | OFF | ON | OFF | OFF | 4780 | 27.0 |
| 2 | OFF | OFF | ON | OFF | 3850 | 22.0 |