
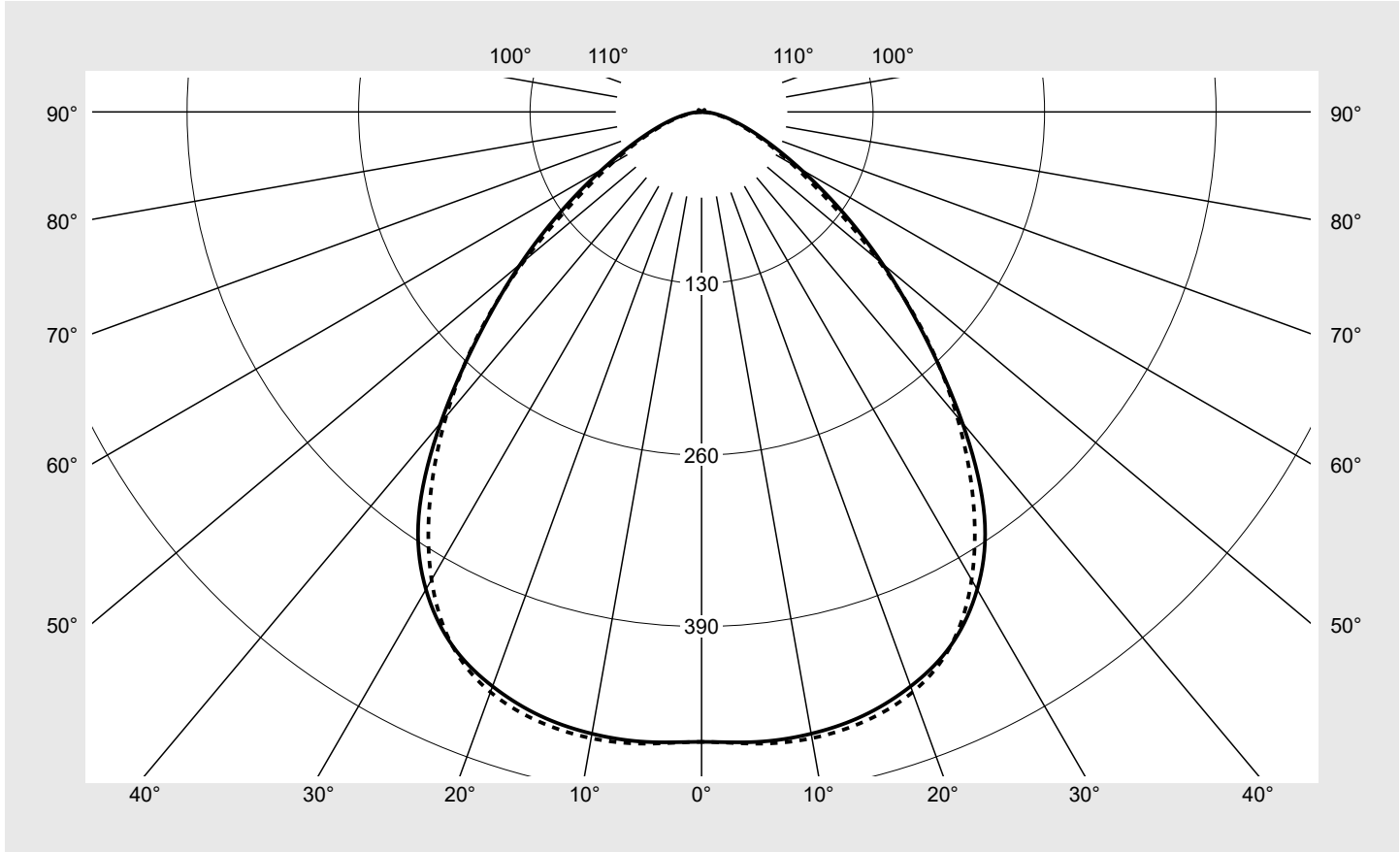


Photometric test report

| | | |
|--|--|--|
| Family Trunking Flex 31 | Order number: 51RE12MB18B EAN: 4058352577417 | LP number 59302_61 |
| | Version primary light control with lens, transparent, PMMA, wide distribution Lamps LED 3500 K CRI ≥ 80 Controlgear ECG Multilumen Rated values Net luminous flux = 8000 lm Power consumption = 50.0 W Luminous efficacy = 160 lm/W | serial documentation 27.03.2024 |



Luminous intensity in cd/klm C180-0 C270-90 **Imax: 482 cd/klm**



| Classifications | |
|-----------------|-----------------------------------|
| DIN 5040 | A 5 2 |
| CIE | N1=64 N2=91 N3=98 N4=99 N5=100 |

| Luminaire light output ratios | |
|-------------------------------|--------|
| η_{LB} | 100.0% |
| ϕ_u | 99.1% |
| ϕ_o | 0.9% |

| Measurement conditions |
|---------------------------|
| DIN EN 13032 and DIN 5032 |

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|---|---|-----------------------------------|
| Family Trunking Flex 31 | Order number: 51RE12MB18B EAN: 4058352577417 | LP number 59302_61 |
| Table of values for luminous intensities | | Maximum luminous intensity |
| | | sITeco |

| C-planes γ | 0° 180° | 15° | 30° | 45° | 60° | 75° | 90° 270° | Phi-zone | Total Phi-zone |
|------------------------------|------------|----------------------|----------------------|----------------------|----------------------|----------------------|-------------------------|----------|-------------------|
| | | 165° 195° 345° | 150° 210° 330° | 135° 225° 315° | 120° 240° 300° | 105° 255° 285° | | | |
| Luminous intensity in cd/klm | | | | | | | Luminous flux in lm/klm | | |
| 0° | 477.4 | 477.4 | 477.4 | 477.4 | 477.4 | 477.4 | 477.4 | 2.9 | 2.9 |
| 5° | 479.2 | 479.4 | 476.1 | 476.9 | 477.7 | 479.1 | 480.6 | 22.8 | 25.7 |
| 10° | 478.5 | 478.8 | 475.9 | 476.7 | 478.1 | 479.7 | 481.9 | 45.5 | 71.2 |
| 15° | 473.7 | 474.6 | 472.3 | 472.8 | 474.3 | 476.3 | 478.1 | 67.3 | 138.5 |
| 20° | 463.3 | 464.4 | 462.2 | 462.5 | 463.5 | 465.9 | 467.9 | 87.0 | 225.5 |
| 25° | 446.5 | 446.1 | 441.7 | 442.3 | 444.6 | 445.0 | 446.7 | 102.9 | 328.5 |
| 30° | 417.9 | 412.9 | 407.0 | 410.2 | 413.2 | 410.4 | 409.4 | 112.7 | 441.2 |
| 35° | 373.8 | 365.6 | 358.8 | 365.1 | 368.4 | 362.5 | 359.0 | 114.6 | 555.7 |
| 40° | 307.6 | 307.1 | 302.9 | 303.0 | 299.1 | 300.3 | 301.2 | 106.7 | 662.4 |
| 45° | 238.0 | 232.2 | 241.2 | 229.3 | 232.4 | 226.8 | 239.9 | 90.5 | 752.9 |
| 50° | 179.0 | 175.4 | 175.4 | 172.2 | 173.6 | 171.0 | 175.3 | 73.1 | 826.0 |
| 55° | 127.6 | 127.0 | 119.9 | 124.4 | 123.4 | 123.3 | 117.8 | 55.4 | 881.5 |
| 60° | 86.5 | 87.3 | 81.4 | 85.4 | 84.1 | 84.7 | 79.6 | 40.0 | 921.5 |
| 65° | 57.4 | 58.2 | 54.6 | 57.2 | 56.0 | 56.8 | 53.2 | 28.0 | 949.5 |
| 70° | 37.6 | 37.8 | 35.9 | 37.4 | 36.6 | 36.7 | 34.5 | 18.9 | 968.4 |
| 75° | 23.7 | 23.8 | 22.9 | 23.5 | 22.9 | 22.8 | 21.3 | 12.2 | 980.6 |
| 80° | 13.7 | 13.5 | 13.1 | 13.2 | 12.8 | 12.3 | 11.3 | 7.0 | 987.6 |
| 85° | 6.4 | 6.2 | 5.9 | 5.7 | 5.2 | 4.6 | 4.0 | 3.0 | 990.6 |
| 90° | 2.2 | 2.1 | 2.0 | 1.7 | 1.4 | 1.0 | 0.6 | 0.9 | 991.5 |
| 95° | 1.8 | 1.7 | 1.7 | 1.5 | 1.2 | 0.8 | 0.5 | 0.7 | 992.2 |
| 100° | 2.3 | 2.3 | 2.1 | 1.7 | 1.3 | 0.8 | 0.5 | 0.9 | 993.0 |
| 105° | 2.1 | 2.1 | 2.0 | 1.7 | 1.3 | 0.7 | 0.5 | 0.8 | 993.9 |
| 110° | 2.3 | 2.3 | 2.0 | 1.7 | 1.2 | 0.6 | 0.4 | 0.8 | 994.6 |
| 115° | 2.2 | 2.1 | 1.9 | 1.7 | 1.1 | 0.7 | 0.5 | 0.7 | 995.4 |
| 120° | 2.3 | 2.0 | 1.7 | 1.5 | 1.1 | 0.7 | 0.7 | 0.7 | 996.0 |
| 125° | 2.7 | 2.1 | 1.8 | 1.4 | 1.0 | 0.7 | 0.7 | 0.7 | 996.7 |
| 130° | 2.0 | 1.9 | 2.0 | 1.4 | 1.1 | 0.9 | 0.9 | 0.6 | 997.3 |
| 135° | 2.0 | 1.9 | 1.8 | 1.5 | 1.2 | 1.2 | 1.2 | 0.6 | 997.9 |
| 140° | 2.0 | 2.0 | 1.8 | 1.6 | 1.4 | 1.4 | 1.4 | 0.6 | 998.5 |
| 145° | 2.1 | 2.0 | 1.9 | 1.7 | 1.6 | 1.6 | 1.6 | 0.6 | 999.1 |
| 150° | 2.1 | 2.1 | 1.9 | 1.8 | 1.8 | 1.8 | 1.8 | 0.5 | 999.6 |
| 155° | 1.9 | 1.9 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 0.4 | 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-Table | Standard room | siteco |
|------------------|----------------------|---------------|

| | | | | | | | | | | | |
|------------------------------|---------------------|------|------|------|------|--------------------|------|------|------|------|------|
| Reflection factor of ceiling | 0.7 | 0.7 | 0.5 | 0.5 | 0.3 | 0.7 | 0.7 | 0.5 | 0.5 | 0.3 | |
| Reflection factor of walls | 0.5 | 0.3 | 0.5 | 0.3 | 0.3 | 0.5 | 0.3 | 0.5 | 0.3 | 0.3 | |
| Reflection factor of floor | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | |
| Room dimensions | View crosswise (C0) | | | | | View endwise (C90) | | | | | |
| x | y | | | | | | | | | | |
| 2H | 2H | 22.0 | 23.5 | 22.4 | 23.8 | 24.1 | 22.1 | 23.6 | 22.4 | 23.9 | 24.2 |
| | 3H | 22.5 | 23.8 | 22.9 | 24.1 | 24.5 | 22.6 | 23.9 | 22.9 | 24.2 | 24.6 |
| | 4H | 22.6 | 23.9 | 23.0 | 24.2 | 24.6 | 22.7 | 24.0 | 23.1 | 24.3 | 24.7 |
| | 6H | 22.7 | 23.9 | 23.1 | 24.2 | 24.6 | 22.8 | 23.9 | 23.2 | 24.3 | 24.7 |
| | 8H | 22.8 | 23.8 | 23.2 | 24.2 | 24.6 | 22.9 | 23.9 | 23.3 | 24.3 | 24.7 |
| | 12H | 22.8 | 23.8 | 23.2 | 24.2 | 24.6 | 22.9 | 23.8 | 23.3 | 24.2 | 24.7 |
| 4H | 2H | 22.3 | 23.5 | 22.7 | 23.9 | 24.2 | 22.3 | 23.6 | 22.7 | 23.9 | 24.3 |
| | 3H | 22.8 | 23.9 | 23.3 | 24.3 | 24.7 | 22.9 | 24.0 | 23.4 | 24.4 | 24.8 |
| | 4H | 23.1 | 24.0 | 23.5 | 24.4 | 24.8 | 23.2 | 24.1 | 23.6 | 24.5 | 24.9 |
| | 6H | 23.2 | 24.0 | 23.7 | 24.4 | 24.9 | 23.3 | 24.1 | 23.8 | 24.5 | 25.0 |
| | 8H | 23.3 | 24.0 | 23.7 | 24.4 | 24.9 | 23.4 | 24.1 | 23.8 | 24.5 | 25.0 |
| | 12H | 23.3 | 23.9 | 23.8 | 24.4 | 24.9 | 23.4 | 24.0 | 23.9 | 24.5 | 25.0 |
| 8H | 4H | 23.1 | 23.9 | 23.6 | 24.3 | 24.8 | 23.2 | 23.9 | 23.7 | 24.4 | 24.9 |
| | 6H | 23.3 | 23.9 | 23.8 | 24.4 | 24.9 | 23.4 | 24.0 | 23.9 | 24.5 | 25.0 |
| | 8H | 23.4 | 23.9 | 23.9 | 24.4 | 24.9 | 23.5 | 24.0 | 24.0 | 24.5 | 25.0 |
| | 12H | 23.5 | 23.9 | 24.0 | 24.4 | 24.9 | 23.5 | 24.0 | 24.1 | 24.5 | 25.0 |
| 12H | 4H | 23.1 | 23.8 | 23.6 | 24.2 | 24.7 | 23.2 | 23.9 | 23.7 | 24.3 | 24.8 |
| | 6H | 23.3 | 23.8 | 23.9 | 24.3 | 24.9 | 23.4 | 23.9 | 24.0 | 24.4 | 25.0 |
| | 8H | 23.4 | 23.9 | 23.9 | 24.4 | 24.9 | 23.5 | 23.9 | 24.0 | 24.4 | 25.0 |

| | | | | | |
|------------------------|---|--------------------------------------|-----------------|-------------------|--------------------|
| Luminance table | Max. for $\gamma \geq 65^\circ$ | Photometric dimensions in mm: | L = 1433 | H(C0) = 5 | H(C180) = 5 |
| | | | B = 61 | H(C90) = 5 | H(C270) = 5 |

| C-planes | γ | Luminance in cd/m ² | | | | | | | |
|----------|----------|--------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-------------|--|
| | | 0° 180° | 15° 165° 195° 345° | 30° 150° 210° 330° | 45° 135° 225° 315° | 60° 120° 240° 300° | 75° 105° 255° 285° | 90° 270° | |
| | 45° | 28466.6 | 27830.2 | 29099.5 | 27988.8 | 28810.9 | 28648.2 | 30943.5 | |
| | 50° | 23222.4 | 22798.6 | 22984.8 | 22873.5 | 23485.0 | 23660.3 | 24850.3 | |
| | 55° | 18229.9 | 18185.9 | 17329.4 | 18271.3 | 18527.0 | 19005.7 | 18701.5 | |
| | 60° | 13870.0 | 14038.3 | 13238.0 | 14151.8 | 14304.9 | 14871.3 | 14486.8 | |
| | 65° | 10574.4 | 10749.6 | 10234.5 | 10971.8 | 11077.3 | 11675.8 | 11439.0 | |
| | 70° | 8209.5 | 8299.2 | 8011.8 | 8593.1 | 8741.3 | 9209.5 | 9146.7 | |
| | 75° | 6425.7 | 6466.1 | 6356.6 | 6783.5 | 6956.5 | 7368.4 | 7444.0 | |
| | 80° | 4916.5 | 4893.7 | 4883.6 | 5171.5 | 5386.1 | 5675.5 | 5829.1 | |
| | 85° | 3495.7 | 3408.5 | 3404.8 | 3520.4 | 3644.2 | 3778.9 | 4003.8 | |

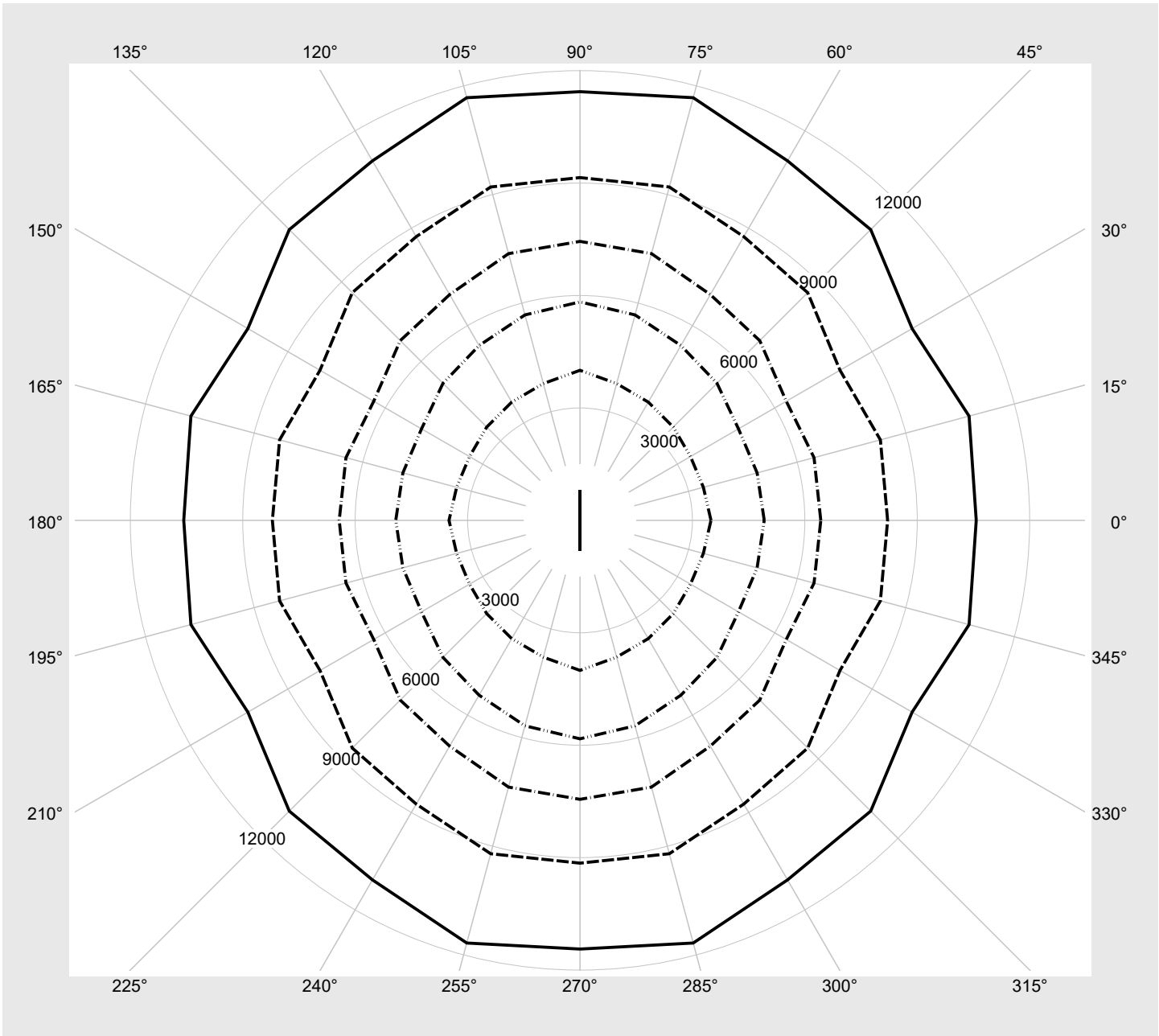
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|-----------------------------------|---|------------------------------|

Luminance values in cd/m²

γ 65°
 γ 70°
 γ 75°
 γ 80°
 γ 85°

siteco



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| | | |
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|-----------------------------------|---|------------------------------|

| | | |
|-------------------------|---------------------------------|---------------|
| Multilumen Table | environmental temperature: 25°C | siteco |
|-------------------------|---------------------------------|---------------|

| DIP-Step | Switch Setting | | Luminous flux [lm] | Power consumption [W] |
|----------|----------------|-----|--------------------|-----------------------|
| | 1 | 2 | | |
| 3 | ON | ON | 8000 | 50.0 |
| 2 | ON | OFF | 6850 | 42.0 |
| 1 | OFF | ON | 5610 | 34.0 |
| 0 | OFF | OFF | 4130 | 25.0 |