



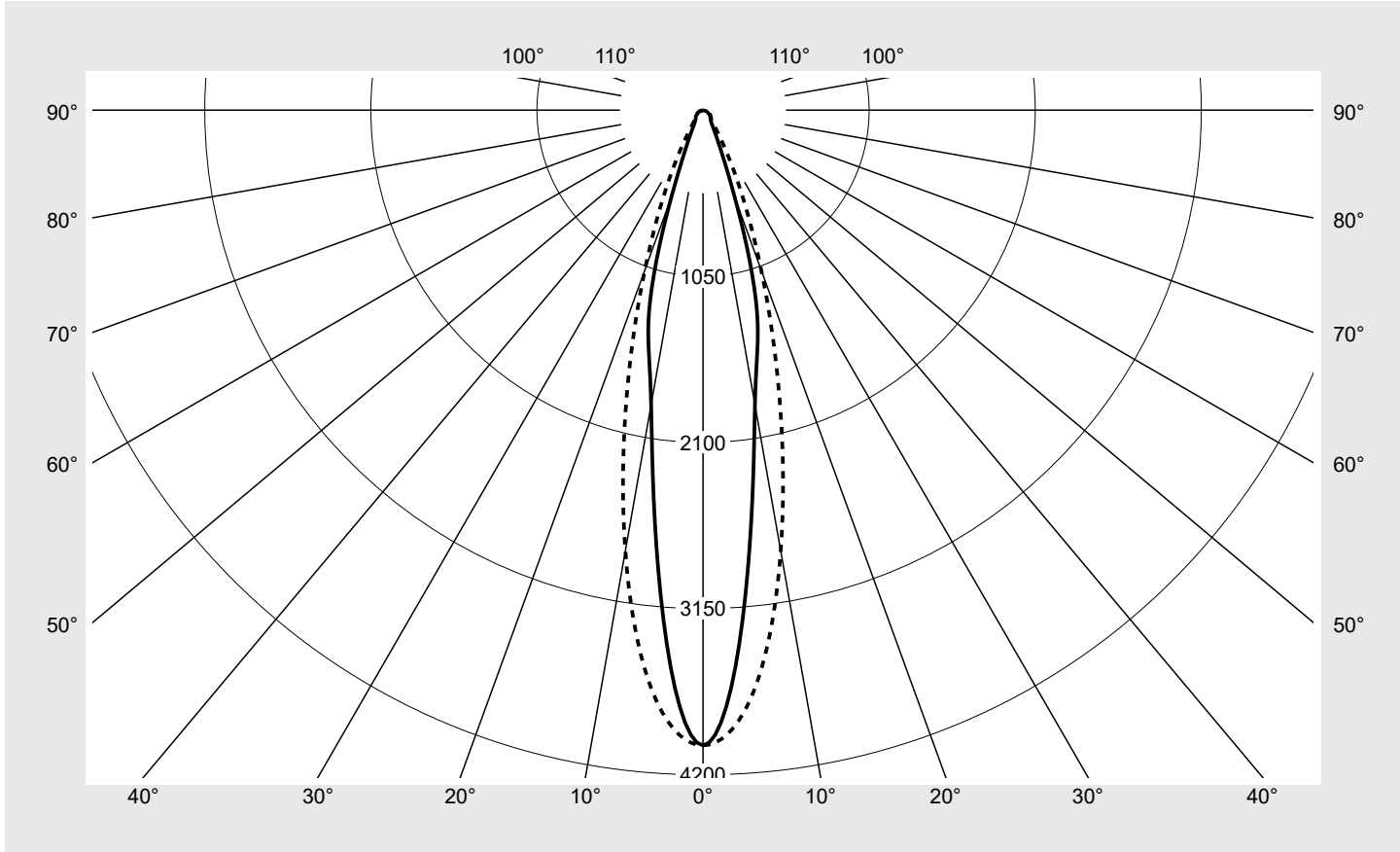
Photometric test report

| | | |
|---|--|--|
| Family Licross® 21 Protected | Order number: 52TD13CN4C5S EAN: 4058352902929 | LP number 58527_57 |
| | Version prismatic cover, frosted, extremely narrow distribution Lamps LED 4000 K CRI ≥ 80 Controlgear ECG-Multilumen CLOi Rated values Net luminous flux = 12680 lm Power consumption = 68.9 W Luminous efficacy = 184 lm/W | serial documentation 17.08.2023 |





Luminous intensity in cd/klm C180-0 C270-90 **Imax: 4014 cd/klm**



| Classifications | |
|-----------------|------------------------------------|
| DIN 5040 | A 8 1 |
| CIE | N1=89 N2=96 N3=99 N4=100 N5=100 |

| Luminaire light output ratios | |
|-------------------------------|--------|
| η_{LB} | 100.0% |
| ϕ_u | 99.7% |
| ϕ_o | 0.3% |

Measurement conditions
DIN EN 13032 and DIN 5032

Photometric test report

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|---|--|-------------------------------------|
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| 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° | 4014.0 | 4014.0 | 4014.0 | 4014.0 | 4014.0 | 4014.0 | 4014.0 | 24.0 | 24.0 |
| 5° | 3075.0 | 3073.4 | 3140.6 | 3286.7 | 3470.0 | 3619.0 | 3684.9 | 159.0 | 183.0 |
| 10° | 1889.9 | 1876.2 | 1856.5 | 1927.7 | 2182.7 | 2591.5 | 2828.1 | 203.0 | 386.0 |
| 15° | 1318.5 | 1331.1 | 1324.1 | 1227.2 | 1167.4 | 1498.4 | 1861.2 | 192.4 | 578.4 |
| 20° | 585.4 | 606.8 | 689.8 | 798.0 | 693.5 | 737.0 | 1075.9 | 136.1 | 714.5 |
| 25° | 239.7 | 246.3 | 276.4 | 361.8 | 426.5 | 351.4 | 567.8 | 79.8 | 794.2 |
| 30° | 128.7 | 127.4 | 129.3 | 152.0 | 214.6 | 178.7 | 273.1 | 45.8 | 840.1 |
| 35° | 88.6 | 83.8 | 76.3 | 80.1 | 101.4 | 103.4 | 134.8 | 29.2 | 869.2 |
| 40° | 73.1 | 66.6 | 55.1 | 52.3 | 60.4 | 70.8 | 85.4 | 22.6 | 891.8 |
| 45° | 65.6 | 58.2 | 44.9 | 39.5 | 42.7 | 55.1 | 71.6 | 20.0 | 911.8 |
| 50° | 58.1 | 50.6 | 38.4 | 32.4 | 32.8 | 44.4 | 65.0 | 18.2 | 930.0 |
| 55° | 47.1 | 41.7 | 33.1 | 27.2 | 26.3 | 35.1 | 57.2 | 16.1 | 946.1 |
| 60° | 37.8 | 33.0 | 27.8 | 22.9 | 21.3 | 27.1 | 47.5 | 13.8 | 959.9 |
| 65° | 30.0 | 25.5 | 22.6 | 19.4 | 17.3 | 20.3 | 35.6 | 11.4 | 971.3 |
| 70° | 23.9 | 19.8 | 17.3 | 16.1 | 13.9 | 14.7 | 23.4 | 9.1 | 980.4 |
| 75° | 19.2 | 15.7 | 12.9 | 12.9 | 10.8 | 10.0 | 13.4 | 6.9 | 987.3 |
| 80° | 14.6 | 12.1 | 9.7 | 9.6 | 7.9 | 6.2 | 6.6 | 5.0 | 992.4 |
| 85° | 10.5 | 9.0 | 7.3 | 6.7 | 5.6 | 3.2 | 2.3 | 3.5 | 995.8 |
| 90° | 7.5 | 6.5 | 5.5 | 4.5 | 3.7 | 1.4 | 0.2 | 2.3 | 998.2 |
| 95° | 6.1 | 5.4 | 4.5 | 3.6 | 2.8 | 0.8 | 0.2 | 1.8 | 1000.0 |
| 100° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1000.0 |
| 105° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1000.0 |
| 110° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1000.0 |
| 115° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1000.0 |
| 120° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1000.0 |
| 125° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1000.0 |
| 130° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1000.0 |
| 135° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1000.0 |
| 140° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1000.0 |
| 145° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1000.0 |
| 150° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1000.0 |
| 155° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 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 | 14.3 | 15.4 | 14.7 | 15.7 | 16.0 | 14.9 | 16.0 | 15.2 | 16.3 | 16.6 |
| | 3H | 15.9 | 16.7 | 16.3 | 17.0 | 17.4 | 16.4 | 17.1 | 16.8 | 17.5 | 17.8 |
| | 4H | 16.3 | 17.2 | 16.7 | 17.6 | 18.0 | 16.5 | 17.4 | 16.9 | 17.8 | 18.2 |
| | 6H | 16.8 | 17.8 | 17.2 | 18.1 | 18.5 | 16.6 | 17.6 | 17.0 | 17.9 | 18.3 |
| | 8H | 17.4 | 18.1 | 17.8 | 18.4 | 18.8 | 16.7 | 17.6 | 17.2 | 18.0 | 18.4 |
| | 12H | 17.4 | 18.2 | 17.8 | 18.6 | 19.1 | 16.7 | 17.6 | 17.2 | 18.0 | 18.4 |
| 4H | 2H | 14.6 | 15.4 | 15.0 | 15.8 | 16.2 | 15.0 | 15.9 | 15.4 | 16.3 | 16.6 |
| | 3H | 16.1 | 16.8 | 16.5 | 17.2 | 17.6 | 16.3 | 17.1 | 16.8 | 17.5 | 17.9 |
| | 4H | 16.8 | 17.5 | 17.3 | 17.9 | 18.4 | 16.8 | 17.5 | 17.3 | 17.9 | 18.4 |
| | 6H | 17.4 | 18.2 | 17.8 | 18.6 | 19.1 | 16.9 | 17.7 | 17.4 | 18.2 | 18.6 |
| | 8H | 18.0 | 18.5 | 18.5 | 19.0 | 19.5 | 17.3 | 17.8 | 17.8 | 18.3 | 18.7 |
| | 12H | 18.2 | 18.8 | 18.6 | 19.3 | 19.8 | 17.1 | 17.8 | 17.6 | 18.2 | 18.7 |
| 8H | 4H | 17.0 | 17.5 | 17.5 | 17.9 | 18.4 | 17.0 | 17.5 | 17.5 | 18.0 | 18.4 |
| | 6H | 18.2 | 18.4 | 18.7 | 18.8 | 19.4 | 17.5 | 17.9 | 18.0 | 18.4 | 18.9 |
| | 8H | 18.4 | 18.7 | 18.9 | 19.2 | 19.7 | 17.6 | 18.0 | 18.1 | 18.5 | 19.0 |
| | 12H | 18.6 | 19.1 | 19.1 | 19.6 | 20.1 | 17.4 | 18.0 | 17.9 | 18.5 | 19.0 |
| 12H | 4H | 16.7 | 17.4 | 17.2 | 17.9 | 18.3 | 16.8 | 17.4 | 17.3 | 17.9 | 18.4 |
| | 6H | 17.7 | 18.2 | 18.2 | 18.7 | 19.2 | 17.3 | 17.8 | 17.8 | 18.3 | 18.8 |
| | 8H | 18.2 | 18.7 | 18.7 | 19.2 | 19.7 | 17.4 | 18.0 | 18.0 | 18.5 | 19.0 |

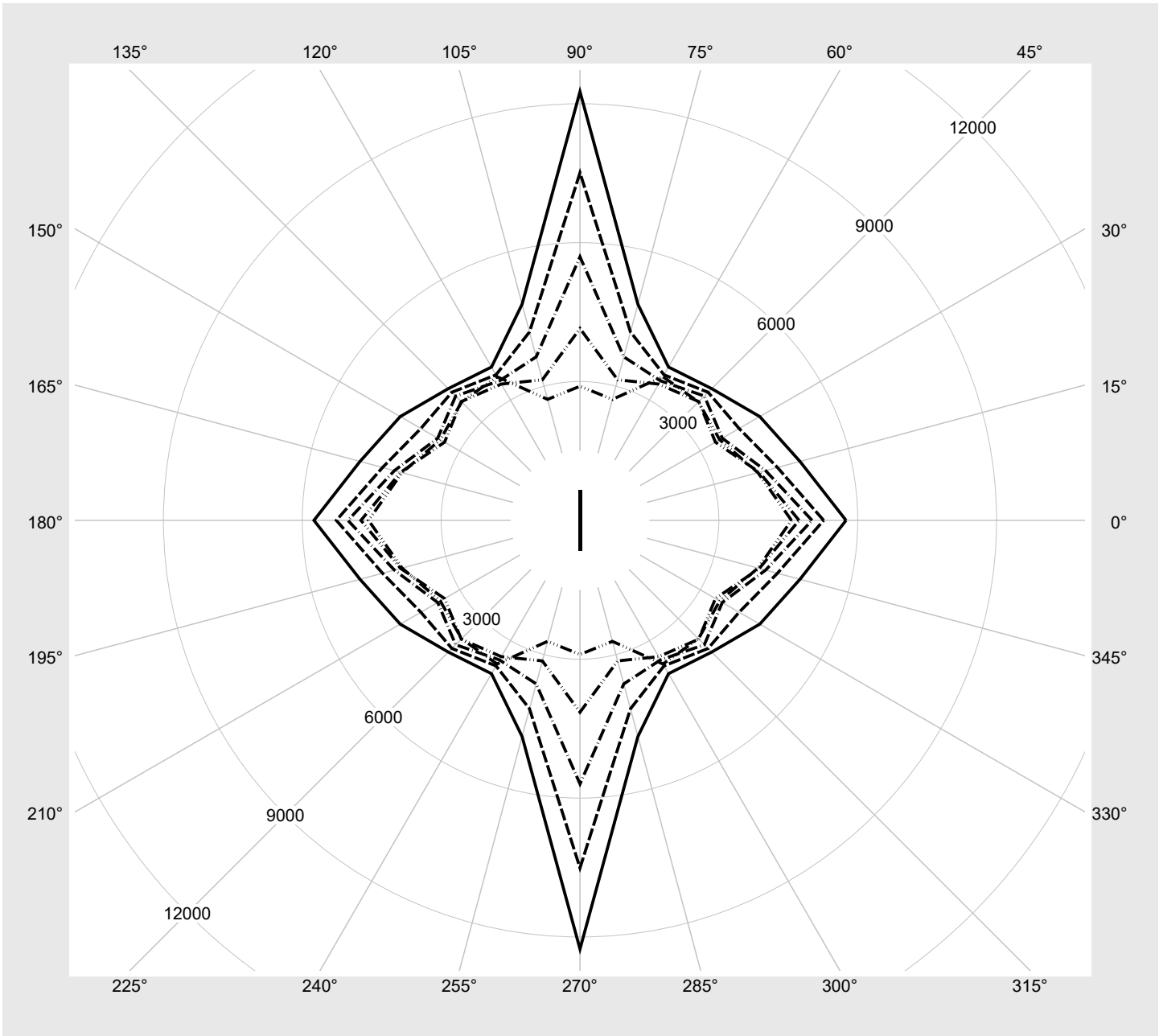
| | | | | | | |
|------------------------|---------------------------------|-------------------------------|--|----------|------------|--------------|
| Luminance table | Max. for $\gamma \geq 65^\circ$ | Photometric dimensions in mm: | | L = 1480 | H(C0) = 13 | H(C180) = 13 |
| | | | | B = 78 | H(C90) = 0 | H(C270) = 0 |

| 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° | | 8741.0 | 7782.2 | 6098.1 | 5488.7 | 6129.2 | 8212.2 | 11124.8 | |
| 50° | | 8275.9 | 7249.6 | 5596.3 | 4853.5 | 5093.7 | 7218.6 | 11106.6 | |
| 55° | | 7293.0 | 6488.5 | 5256.2 | 4453.7 | 4498.4 | 6329.6 | 10947.9 | |
| 60° | | 6445.7 | 5662.1 | 4889.2 | 4177.3 | 4093.6 | 5533.6 | 10425.4 | |
| 65° | | 5747.9 | 4920.3 | 4484.5 | 4024.1 | 3824.6 | 4833.8 | 9260.9 | |
| 70° | | 5264.3 | 4416.1 | 3969.8 | 3913.9 | 3630.0 | 4214.7 | 7508.5 | |
| 75° | | 5013.9 | 4151.4 | 3549.8 | 3798.8 | 3480.6 | 3656.9 | 5694.1 | |
| 80° | | 4733.0 | 4011.5 | 3378.8 | 3628.4 | 3399.8 | 3143.3 | 4144.4 | |
| 85° | | 4568.7 | 3980.4 | 3484.4 | 3618.6 | 3583.6 | 2706.2 | 2897.4 | |

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Luminance values in cd/m² γ 65° γ 70° γ 75° γ 80° γ 85° **siteco**



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

| DIP-Step | Switch Setting | | | Luminous flux [lm] | Power consumption [W] | Power consumption | Power consumption |
|----------|----------------|---|---|-----------------------|--------------------------|------------------------|-------------------|
| | 1 | 2 | 3 | | | end of lifetime [W] | average [W] |
| 1 | A | C | E | 12680 | 68.9 | 83.2 | 76.1 |
| 2 | A | C | F | 12239 | 66.3 | 80.2 | 73.2 |
| 3 | A | D | E | 11210 | 60.3 | 72.4 | 66.4 |
| 4 | A | D | F | 10150 | 54.3 | 65.0 | 59.6 |
| 5 | B | C | E | 9164 | 48.8 | 58.1 | 53.4 |
| 6 | B | C | F | 8166 | 43.3 | 51.8 | 47.6 |
| 7 | B | D | E | 7159 | 37.9 | 45.0 | 41.4 |
| 8 | B | D | F | 6141 | 32.5 | 38.3 | 35.4 |