

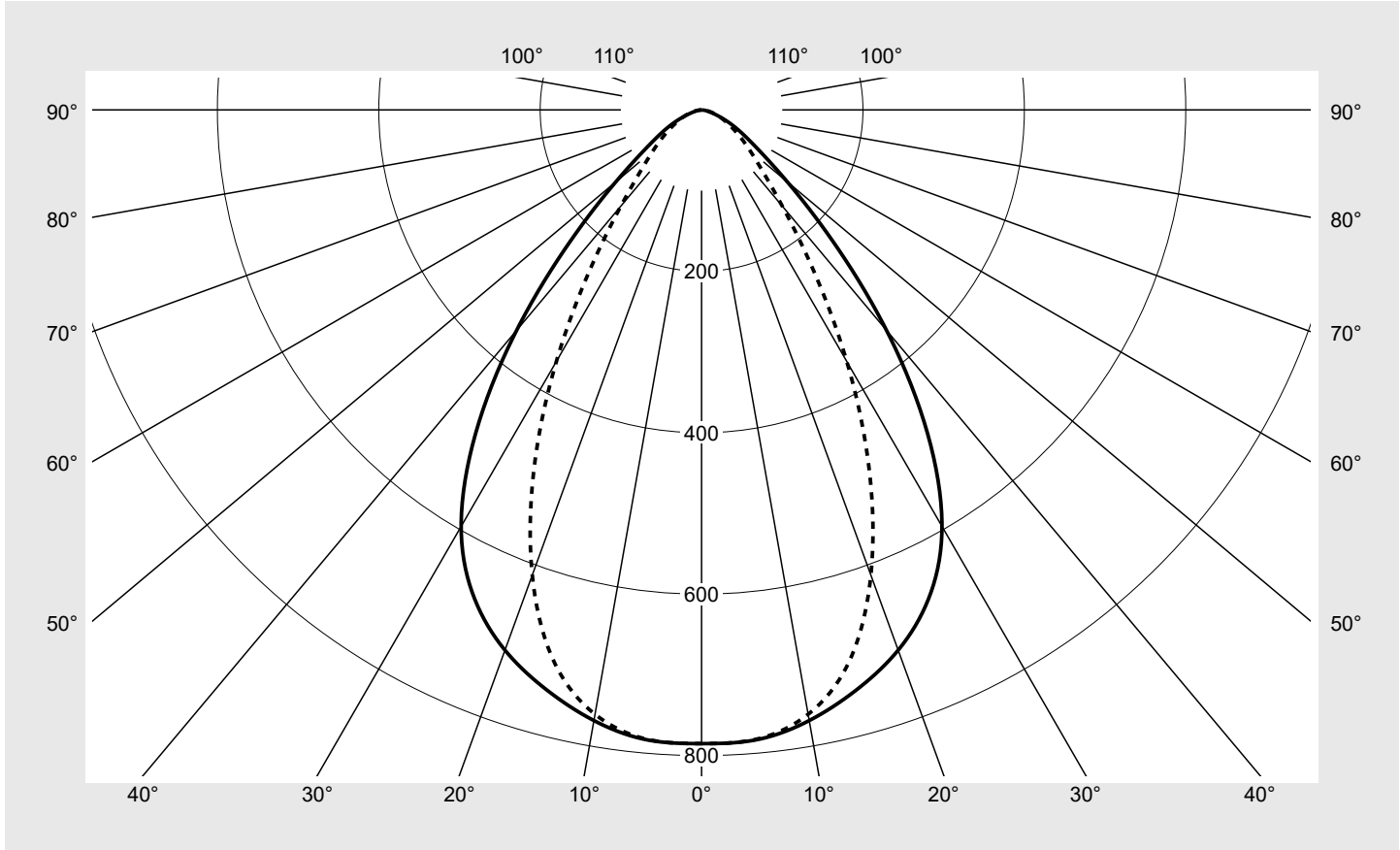


Photometric test report

| | | |
|--|--|---|
| Family Licross® Recessed | Order number: 51TL18CN4CXL EAN: 4058352296110 | LP number 58690_6 |
|  | Version cover frosted, wide distribution, high visual comfort Lamps LED 4000 K CRI ≥ 80 Controlgear ECG-Multilumen CLOi Rated values Net luminous flux = 12000 lm Power consumption = 68.8 W Luminous efficacy = 174.4 lm/W | serial documentation 19.11.2019 |
| | |  |

Luminous intensity in cd/klm C180-0 C270-90 **Imax: 785 cd/klm**



| Classifications | |
|-----------------|------------------------------------|
| DIN 5040 | A 6 0 |
| CIE | N1=78 N2=94 N3=99 N4=100 N5=100 |

| Luminaire light output ratios | |
|-------------------------------|--------|
| η_{LB} | 100.0% |
| ϕ_u | 100.0% |
| ϕ_o | 0.0% |

Measurement conditions
 DIN EN 13032 and DIN 5032

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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° | 785.2 | 785.2 | 785.2 | 785.2 | 785.2 | 785.2 | 785.2 | 4.7 | 4.7 |
| 5° | 783.4 | 781.4 | 776.6 | 779.8 | 781.8 | 782.1 | 782.7 | 37.3 | 42.0 |
| 10° | 768.3 | 766.7 | 761.5 | 762.8 | 763.5 | 761.1 | 760.4 | 72.7 | 114.7 |
| 15° | 743.6 | 742.7 | 733.7 | 728.3 | 720.6 | 709.9 | 707.4 | 103.1 | 217.8 |
| 20° | 712.4 | 708.4 | 691.4 | 669.5 | 643.5 | 621.3 | 613.4 | 124.9 | 342.7 |
| 25° | 666.9 | 659.0 | 622.8 | 576.9 | 532.3 | 501.9 | 491.6 | 134.0 | 476.7 |
| 30° | 595.9 | 578.6 | 522.8 | 456.8 | 403.1 | 370.2 | 359.8 | 128.3 | 605.0 |
| 35° | 487.4 | 465.5 | 401.4 | 331.1 | 278.9 | 249.4 | 240.2 | 109.5 | 714.5 |
| 40° | 356.6 | 334.8 | 278.6 | 220.0 | 182.5 | 161.7 | 155.6 | 84.2 | 798.7 |
| 45° | 229.8 | 212.6 | 172.5 | 137.3 | 118.7 | 108.8 | 106.4 | 59.3 | 858.0 |
| 50° | 138.7 | 127.9 | 104.9 | 89.6 | 83.6 | 79.2 | 78.2 | 41.5 | 899.6 |
| 55° | 86.1 | 79.8 | 69.3 | 65.4 | 63.7 | 60.2 | 58.5 | 30.7 | 930.3 |
| 60° | 57.8 | 53.9 | 50.5 | 51.8 | 50.6 | 46.1 | 43.1 | 24.0 | 954.3 |
| 65° | 38.0 | 36.1 | 37.7 | 39.9 | 40.1 | 34.9 | 31.4 | 18.5 | 972.8 |
| 70° | 21.9 | 21.5 | 24.3 | 28.4 | 29.8 | 25.8 | 22.4 | 13.0 | 985.8 |
| 75° | 11.6 | 11.4 | 12.7 | 17.5 | 19.8 | 17.4 | 14.7 | 8.1 | 993.9 |
| 80° | 5.8 | 5.7 | 6.1 | 8.6 | 10.9 | 9.9 | 8.2 | 4.3 | 998.3 |
| 85° | 2.4 | 2.3 | 2.4 | 3.2 | 4.0 | 3.9 | 3.0 | 1.7 | 1000.0 |
| 90° | 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 | 22.3 | 23.7 | 22.7 | 24.0 | 24.3 | 19.7 | 21.1 | 20.1 | 21.4 | 21.7 |
| | 3H | 22.6 | 23.8 | 23.0 | 24.1 | 24.5 | 20.4 | 21.6 | 20.8 | 21.9 | 22.3 |
| | 4H | 22.7 | 23.7 | 23.0 | 24.1 | 24.5 | 20.7 | 21.8 | 21.1 | 22.1 | 22.5 |
| | 6H | 22.7 | 23.6 | 23.1 | 24.0 | 24.4 | 20.8 | 21.9 | 21.2 | 22.2 | 22.6 |
| | 8H | 22.7 | 23.6 | 23.2 | 24.0 | 24.4 | 20.9 | 21.8 | 21.4 | 22.2 | 22.6 |
| | 12H | 22.7 | 23.5 | 23.2 | 23.9 | 24.3 | 20.9 | 21.8 | 21.4 | 22.2 | 22.6 |
| 4H | 2H | 22.4 | 23.5 | 22.8 | 23.9 | 24.3 | 20.2 | 21.3 | 20.6 | 21.6 | 22.0 |
| | 3H | 22.8 | 23.7 | 23.2 | 24.1 | 24.5 | 21.1 | 22.0 | 21.5 | 22.4 | 22.8 |
| | 4H | 22.9 | 23.7 | 23.3 | 24.1 | 24.5 | 21.5 | 22.3 | 21.9 | 22.7 | 23.2 |
| | 6H | 22.9 | 23.6 | 23.3 | 24.0 | 24.5 | 21.7 | 22.5 | 22.2 | 22.9 | 23.4 |
| | 8H | 22.9 | 23.5 | 23.4 | 24.0 | 24.4 | 21.8 | 22.5 | 22.3 | 22.9 | 23.4 |
| | 12H | 22.9 | 23.4 | 23.4 | 23.9 | 24.4 | 21.9 | 22.4 | 22.4 | 22.9 | 23.4 |
| 8H | 4H | 22.9 | 23.5 | 23.4 | 24.0 | 24.5 | 21.6 | 22.3 | 22.1 | 22.7 | 23.2 |
| | 6H | 23.0 | 23.5 | 23.4 | 23.9 | 24.5 | 22.0 | 22.5 | 22.5 | 23.0 | 23.5 |
| | 8H | 22.9 | 23.4 | 23.5 | 23.9 | 24.4 | 22.1 | 22.6 | 22.6 | 23.1 | 23.6 |
| | 12H | 23.0 | 23.3 | 23.5 | 23.8 | 24.4 | 22.2 | 22.6 | 22.7 | 23.1 | 23.6 |
| 12H | 4H | 22.9 | 23.5 | 23.4 | 23.9 | 24.4 | 21.7 | 22.2 | 22.1 | 22.6 | 23.1 |
| | 6H | 23.0 | 23.4 | 23.5 | 23.9 | 24.4 | 22.0 | 22.4 | 22.5 | 22.9 | 23.5 |
| | 8H | 23.0 | 23.3 | 23.5 | 23.8 | 24.4 | 22.2 | 22.5 | 22.7 | 23.0 | 23.6 |

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|------------------------|---|--------------------------------------|-----------------|
| Luminance table | Max. for $\gamma \geq 65^\circ$ | Photometric dimensions in mm: | L = 1500 |
| | | | B = 58 |

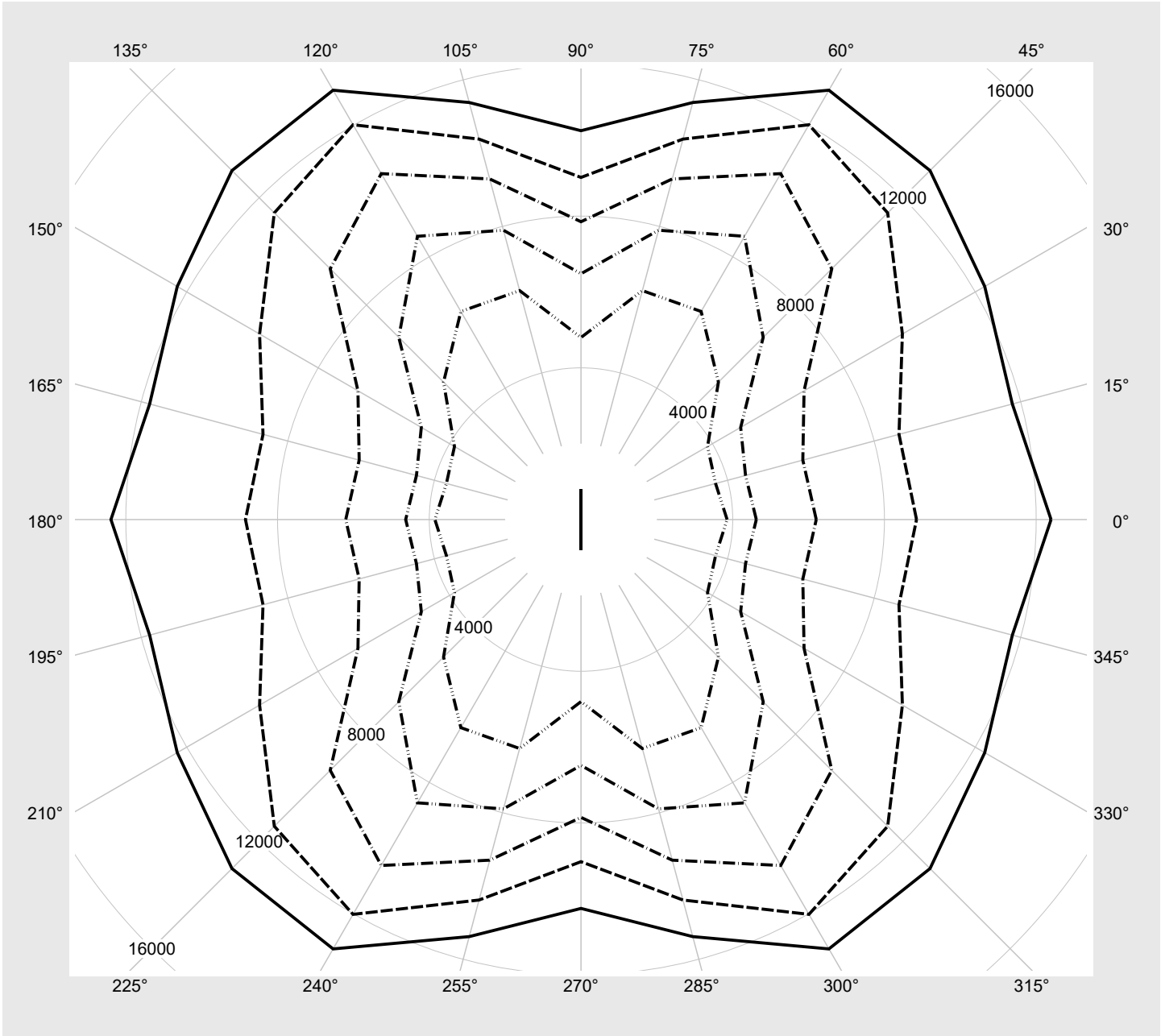
| | | | | | | | | |
|----------|----------|------------|----------------------|----------------------|----------------------|----------------------|----------------------|-------------|
| C-planes | γ | 0° 180° | 15° | 30° | 45° | 60° | 75° | 90° 270° |
| | | | 165° 195° 345° | 150° 210° 330° | 135° 225° 315° | 120° 240° 300° | 105° 255° 285° | |
| | | | Luminance in cd/m² | | | | | |
| | 45° | 44828.2 | 41478.2 | 33649.1 | 26774.5 | 23155.5 | 21218.1 | 20763.6 |
| | 50° | 29757.7 | 27449.6 | 22502.8 | 19229.4 | 17933.1 | 16994.3 | 16771.3 |
| | 55° | 20709.0 | 19183.0 | 16656.8 | 15738.6 | 15320.4 | 14471.3 | 14070.5 |
| | 60° | 15947.0 | 14869.0 | 13938.5 | 14276.1 | 13961.1 | 12729.4 | 11887.2 |
| | 65° | 12392.7 | 11773.2 | 12290.9 | 13013.5 | 13071.6 | 11383.6 | 10252.7 |
| | 70° | 8846.0 | 8679.5 | 9784.1 | 11434.7 | 12019.5 | 10384.9 | 9020.6 |
| | 75° | 6202.2 | 6054.6 | 6790.5 | 9349.6 | 10531.7 | 9297.4 | 7852.6 |
| | 80° | 4622.1 | 4491.0 | 4861.2 | 6793.8 | 8624.7 | 7897.1 | 6481.6 |
| | 85° | 3852.0 | 3673.2 | 3852.0 | 5124.4 | 6335.1 | 6249.6 | 4800.0 |

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Luminance values in cd/m²

γ 65°
γ 70°
γ 75°
γ 80°
γ 85°



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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 | 12000 | 68.8 | 76.9 | 72.8 |
| 2 | A | C | F | 10960 | 62.1 | 69.3 | 65.7 |
| 3 | A | D | E | 9980 | 56.0 | 62.2 | 59.1 |
| 4 | A | D | F | 8980 | 49.9 | 55.2 | 52.6 |
| 5 | B | C | E | 7960 | 43.9 | 48.6 | 46.2 |
| 6 | B | C | F | 7000 | 38.4 | 42.2 | 40.3 |
| 7 | B | D | E | 6020 | 32.9 | 36.3 | 34.6 |
| 8 | B | D | F | 5030 | 27.5 | 30.0 | 28.8 |