
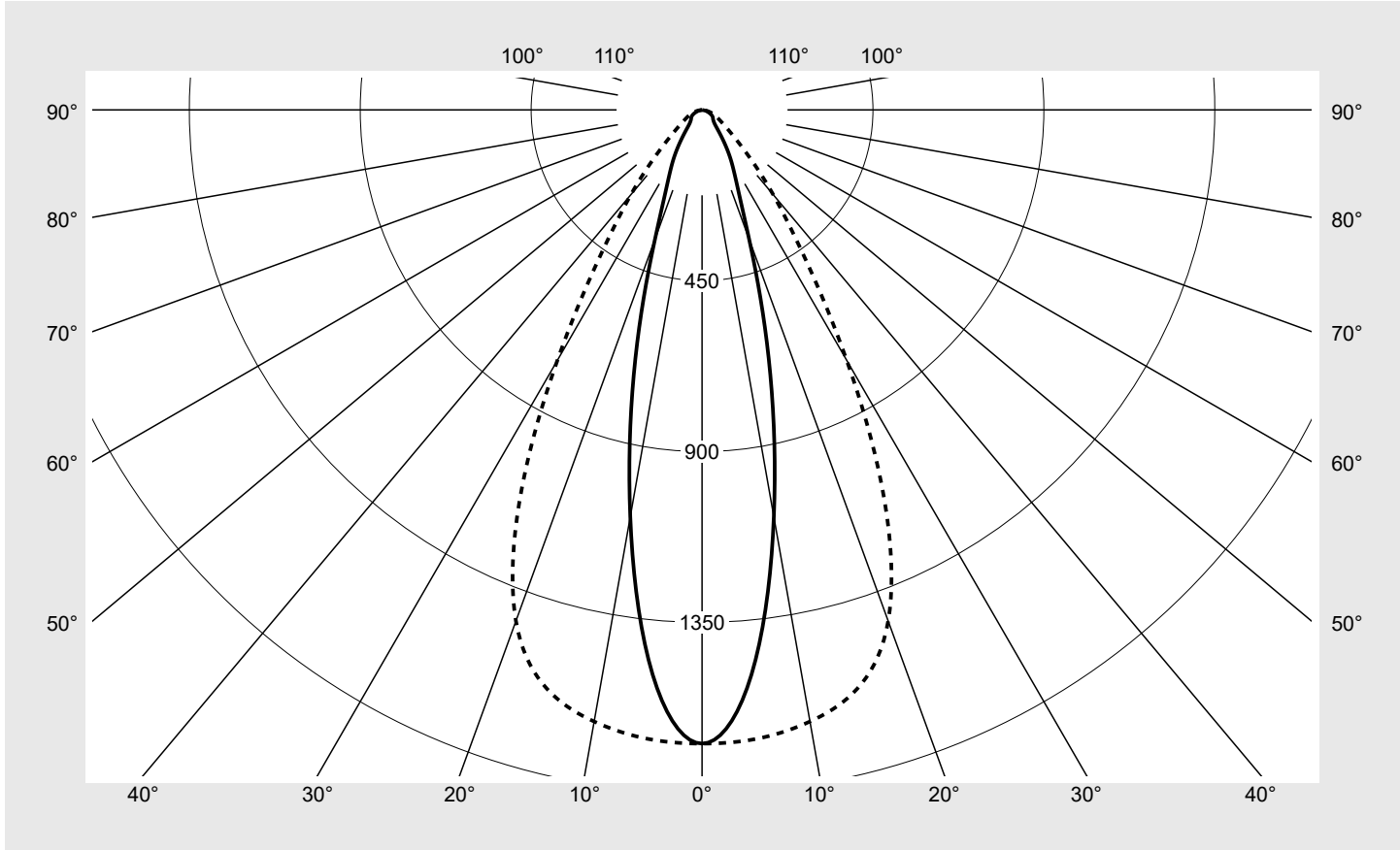


Photometric test report

| | | |
|--|---|--|
| Family Licross® 21 Recessed | Order number: 52TL1ECN485G EAN: 4058352891629 | LP number 59263_120 |
|  | Version cover frosted, elliptical narrow distribution | serial documentation 17.08.2023 |
| | Lamps LED 4000 K CRI ≥ 80 | |
| | Controlgear ECG-Multilumen CLOi | |
| | Rated values <ul style="list-style-type: none"> Net luminous flux = 8960 lm Power consumption = 49.9 W Luminous efficacy = 179.6 lm/W | |



Luminous intensity in cd/klm C180-0 C270-90 Imax: 1670 cd/klm



| Classifications | |
|-----------------|------------------------------------|
| DIN 5040 | A 7 0 |
| CIE | N1=85 N2=95 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° | 1669.5 | 1669.5 | 1669.5 | 1669.5 | 1669.5 | 1669.5 | 1669.5 | 10.0 | 10.0 |
| 5° | 1493.3 | 1495.6 | 1516.6 | 1565.9 | 1616.3 | 1649.8 | 1662.9 | 75.0 | 85.0 |
| 10° | 1088.5 | 1106.7 | 1175.0 | 1303.4 | 1460.6 | 1586.1 | 1636.2 | 126.8 | 211.8 |
| 15° | 678.3 | 712.7 | 825.0 | 1006.5 | 1239.9 | 1474.8 | 1578.7 | 151.0 | 362.9 |
| 20° | 362.1 | 388.9 | 492.0 | 707.6 | 980.6 | 1275.8 | 1432.9 | 148.2 | 511.0 |
| 25° | 217.8 | 231.1 | 285.8 | 436.7 | 705.9 | 972.9 | 1137.5 | 127.8 | 638.8 |
| 30° | 151.3 | 158.5 | 185.3 | 264.1 | 455.8 | 646.3 | 761.7 | 99.0 | 737.8 |
| 35° | 95.4 | 107.0 | 131.3 | 171.8 | 268.4 | 391.1 | 463.8 | 70.7 | 808.5 |
| 40° | 57.7 | 64.5 | 93.9 | 120.6 | 157.9 | 239.7 | 291.4 | 50.0 | 858.5 |
| 45° | 43.5 | 45.9 | 58.2 | 86.3 | 99.5 | 145.4 | 176.9 | 35.2 | 893.7 |
| 50° | 37.7 | 39.0 | 42.8 | 61.0 | 68.3 | 89.3 | 109.1 | 26.2 | 919.9 |
| 55° | 34.6 | 35.0 | 36.7 | 43.5 | 50.5 | 59.6 | 73.7 | 20.9 | 940.8 |
| 60° | 30.2 | 31.1 | 32.8 | 34.2 | 38.6 | 42.0 | 53.5 | 17.5 | 958.3 |
| 65° | 23.9 | 25.4 | 29.1 | 28.1 | 30.1 | 30.8 | 41.3 | 14.6 | 972.8 |
| 70° | 17.0 | 18.4 | 22.5 | 23.3 | 23.4 | 22.7 | 30.8 | 11.5 | 984.3 |
| 75° | 10.9 | 12.0 | 16.2 | 17.9 | 17.4 | 15.7 | 20.7 | 8.4 | 992.7 |
| 80° | 6.2 | 6.7 | 9.0 | 10.7 | 11.0 | 9.3 | 11.6 | 5.0 | 997.7 |
| 85° | 3.1 | 3.3 | 4.2 | 5.0 | 4.8 | 3.9 | 4.2 | 2.3 | 1000.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1000.0 |
| 95° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 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 | 14.8 | 16.0 | 15.1 | 16.3 | 16.6 | 19.8 | 21.0 | 20.1 | 21.3 | 21.6 |
| | 3H | 15.9 | 17.0 | 16.3 | 17.4 | 17.7 | 20.4 | 21.4 | 20.7 | 21.7 | 22.1 |
| | 4H | 16.3 | 17.3 | 16.7 | 17.7 | 18.1 | 20.6 | 21.6 | 21.0 | 22.0 | 22.3 |
| | 6H | 16.5 | 17.5 | 16.9 | 17.9 | 18.2 | 20.9 | 21.7 | 21.3 | 22.1 | 22.5 |
| | 8H | 16.7 | 17.5 | 17.1 | 17.9 | 18.3 | 21.0 | 21.7 | 21.4 | 22.1 | 22.5 |
| | 12H | 16.7 | 17.5 | 17.2 | 17.9 | 18.3 | 21.0 | 21.7 | 21.5 | 22.1 | 22.5 |
| 4H | 2H | 15.6 | 16.6 | 16.0 | 16.9 | 17.3 | 19.8 | 20.8 | 20.2 | 21.1 | 21.5 |
| | 3H | 17.0 | 17.8 | 17.4 | 18.2 | 18.6 | 20.5 | 21.3 | 20.9 | 21.7 | 22.1 |
| | 4H | 17.5 | 18.3 | 18.0 | 18.7 | 19.1 | 20.9 | 21.6 | 21.3 | 22.0 | 22.4 |
| | 6H | 17.8 | 18.5 | 18.3 | 18.9 | 19.4 | 21.1 | 21.8 | 21.6 | 22.2 | 22.7 |
| | 8H | 17.9 | 18.5 | 18.4 | 19.0 | 19.4 | 21.3 | 21.8 | 21.8 | 22.3 | 22.7 |
| | 12H | 18.0 | 18.5 | 18.5 | 19.0 | 19.5 | 21.3 | 21.8 | 21.8 | 22.3 | 22.8 |
| 8H | 4H | 18.0 | 18.5 | 18.5 | 19.0 | 19.5 | 20.9 | 21.5 | 21.4 | 22.0 | 22.5 |
| | 6H | 18.5 | 18.9 | 19.0 | 19.4 | 19.9 | 21.4 | 21.8 | 21.9 | 22.3 | 22.8 |
| | 8H | 18.6 | 19.0 | 19.1 | 19.5 | 20.0 | 21.5 | 21.9 | 22.0 | 22.4 | 22.9 |
| | 12H | 18.7 | 19.1 | 19.2 | 19.6 | 20.1 | 21.6 | 21.9 | 22.1 | 22.4 | 23.0 |
| 12H | 4H | 18.1 | 18.5 | 18.5 | 19.0 | 19.5 | 20.9 | 21.4 | 21.4 | 21.9 | 22.4 |
| | 6H | 18.6 | 18.9 | 19.1 | 19.4 | 20.0 | 21.3 | 21.7 | 21.9 | 22.2 | 22.8 |
| | 8H | 18.8 | 19.1 | 19.3 | 19.6 | 20.1 | 21.5 | 21.9 | 22.0 | 22.4 | 22.9 |

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

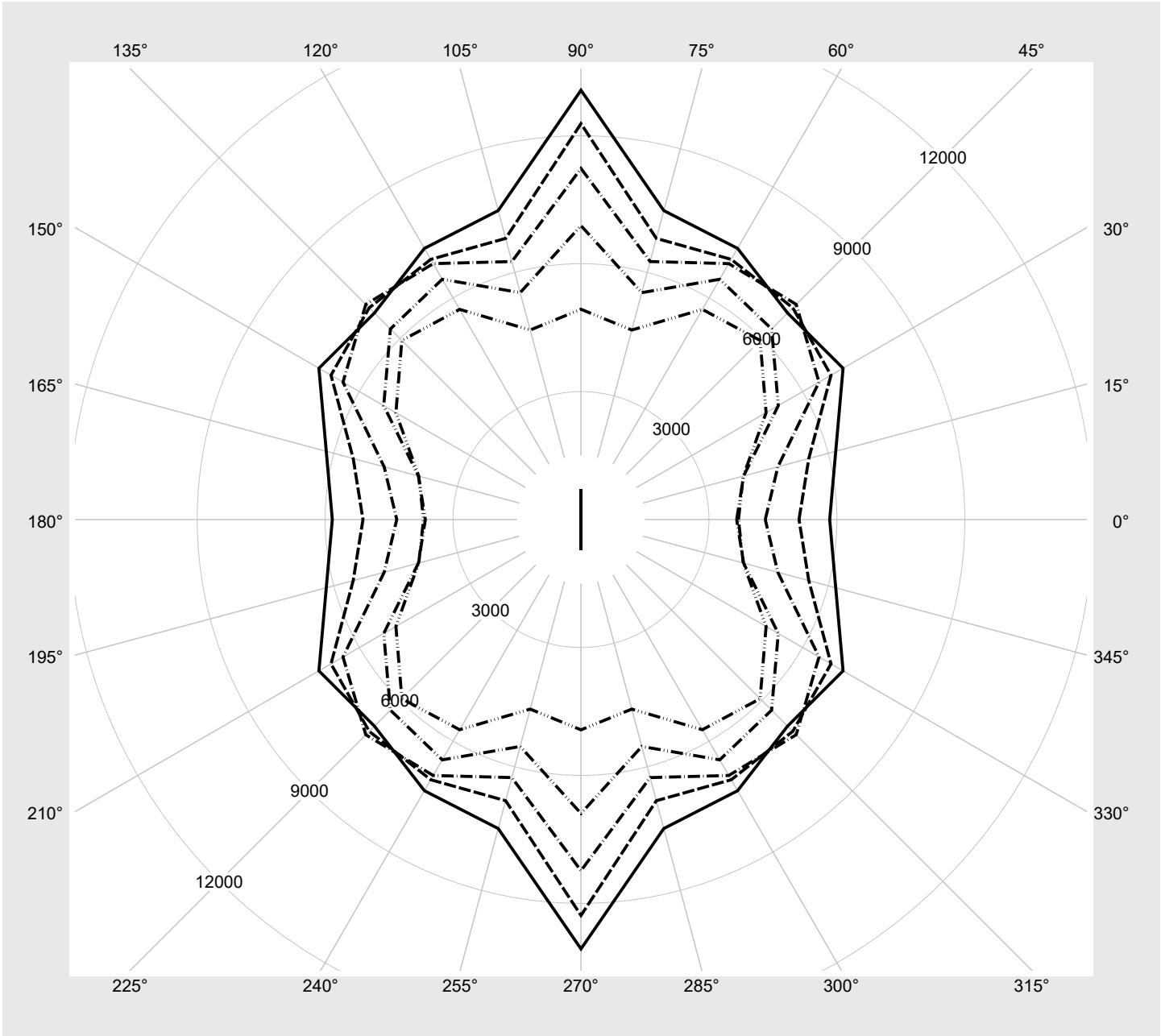
| C-planes | γ | Luminance in cd/m ² | | | | | | | |
|----------|----------|--------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-------------|--|
| | | 0° 180° | 15° 165° 195° 345° | 30° 150° 210° 330° | 45° 135° 225° 315° | 60° 120° 240° 300° | 75° 105° 255° 285° | 90° 270° | |
| 45° | | 6334.1 | 6681.6 | 8469.7 | 12566.2 | 14496.9 | 21177.2 | 25770.9 | |
| 50° | | 6046.6 | 6245.4 | 6857.0 | 9779.1 | 10944.9 | 14312.6 | 17486.0 | |
| 55° | | 6205.8 | 6281.0 | 6593.3 | 7806.2 | 9070.6 | 10706.1 | 13236.6 | |
| 60° | | 6211.4 | 6415.6 | 6759.1 | 7050.0 | 7949.3 | 8647.1 | 11018.1 | |
| 65° | | 5831.1 | 6183.4 | 7095.6 | 6849.9 | 7342.4 | 7500.6 | 10067.9 | |
| 70° | | 5112.1 | 5529.4 | 6768.8 | 7022.7 | 7045.0 | 6825.4 | 9282.9 | |
| 75° | | 4320.2 | 4778.6 | 6443.9 | 7135.8 | 6929.7 | 6263.6 | 8232.5 | |
| 80° | | 3649.9 | 3947.0 | 5341.3 | 6320.5 | 6506.2 | 5508.6 | 6891.7 | |
| 85° | | 3692.7 | 3938.5 | 5011.4 | 5940.2 | 5690.9 | 4601.4 | 4931.1 | |

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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 [W] | Power consumption [W] |
|----------|----------------|---|---|--------------------|-----------------------|-----------------------|-----------------------|
| | 1 | 2 | 3 | | | end of lifetime | average |
| 1 | A | C | E | 8960 | 49.9 | 60.5 | 55.2 |
| 2 | A | C | F | 8529 | 47.3 | 56.9 | 52.1 |
| 3 | A | D | E | 8025 | 44.4 | 53.4 | 48.9 |
| 4 | A | D | F | 7521 | 41.4 | 49.5 | 45.4 |
| 5 | B | C | E | 6996 | 38.4 | 45.6 | 42.0 |
| 6 | B | C | F | 6471 | 35.3 | 42.2 | 38.8 |
| 7 | B | D | E | 6029 | 32.8 | 39.2 | 36.0 |
| 8 | B | D | F | 5494 | 29.9 | 35.3 | 32.6 |