
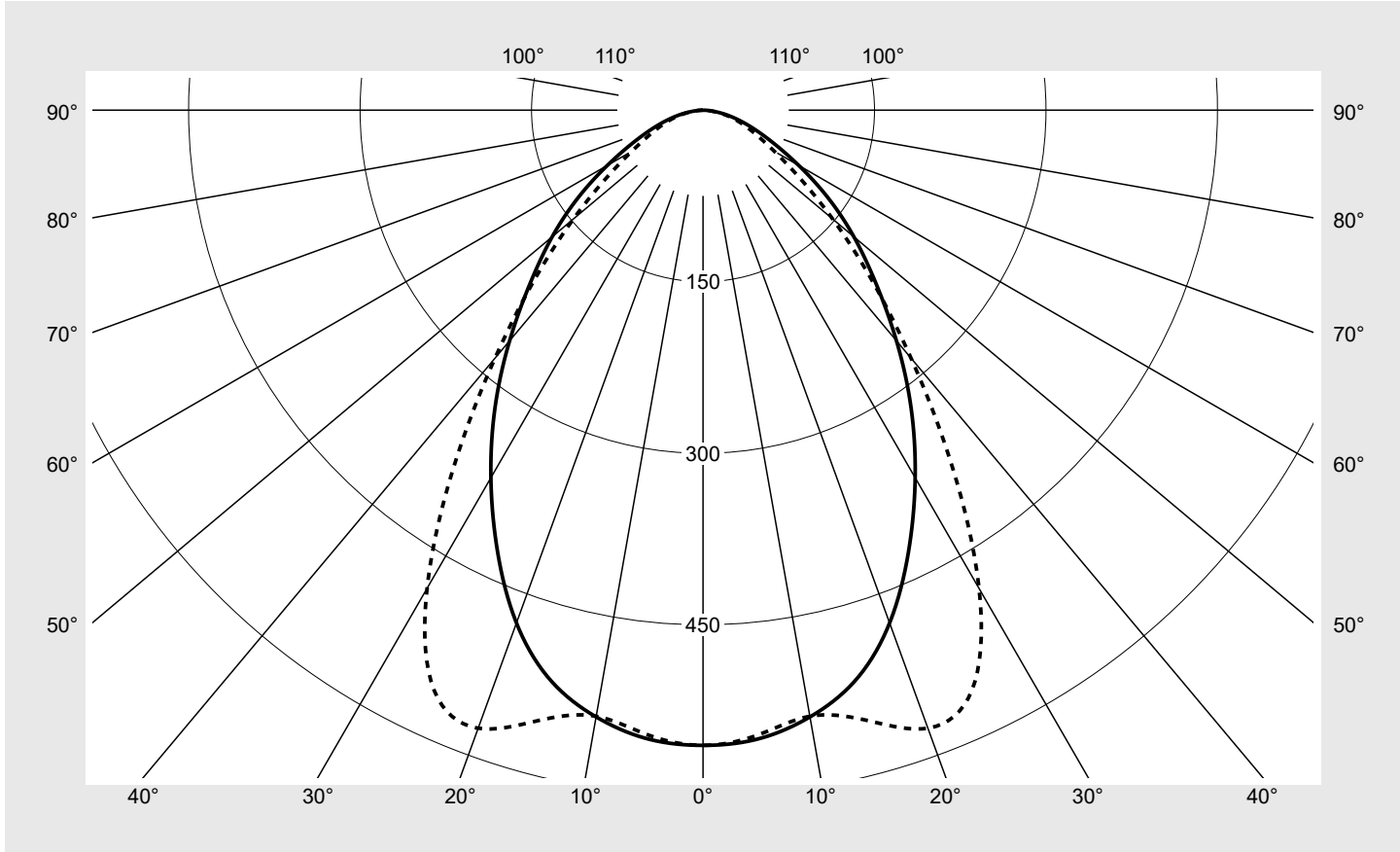


Photometric test report

| | | |
|--|---|--|
| Family Licross® 11 Recessed | Order number: 51TL12DN3DXM EAN: 4069025012791 | LP number 58689_164 |
| | Version cover frosted, wide distribution, high visual comfort Lamps LED 3000 K CRI ≥ 80 Controlgear ECG-DALI Rated values Net luminous flux = 13490 lm Power consumption = 76.8 W Luminous efficacy = 175.7 lm/W | serial documentation 22.01.2024 |



Luminous intensity in cd/klm C180-0 C270-90 **Imax: 575 cd/klm**



| Classifications | |
|-----------------|------------------------------------|
| DIN 5040 | A 5 0 |
| CIE | N1=66 N2=91 N3=98 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

Photometric test report

| | | |
|---|--|-----------------------------------|
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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° | 555.4 | 555.4 | 555.4 | 555.4 | 555.4 | 555.4 | 555.4 | 3.3 | 3.3 |
| 5° | 551.9 | 549.3 | 545.0 | 546.0 | 548.1 | 548.0 | 548.5 | 26.2 | 29.5 |
| 10° | 538.7 | 535.0 | 528.7 | 529.1 | 532.7 | 535.9 | 538.2 | 50.8 | 80.3 |
| 15° | 515.9 | 510.9 | 504.6 | 513.1 | 530.5 | 544.7 | 552.3 | 74.2 | 154.5 |
| 20° | 477.2 | 471.4 | 470.1 | 497.6 | 537.0 | 563.7 | 575.1 | 95.8 | 250.2 |
| 25° | 425.5 | 419.5 | 426.9 | 469.4 | 521.2 | 548.6 | 558.0 | 111.1 | 361.3 |
| 30° | 371.2 | 364.3 | 378.4 | 421.3 | 459.9 | 477.2 | 482.9 | 115.5 | 476.8 |
| 35° | 317.2 | 309.8 | 328.6 | 357.7 | 367.8 | 374.7 | 379.7 | 109.4 | 586.2 |
| 40° | 263.2 | 255.5 | 280.4 | 291.4 | 277.2 | 277.7 | 283.1 | 97.2 | 683.4 |
| 45° | 213.7 | 204.0 | 230.1 | 230.5 | 202.8 | 200.2 | 207.0 | 82.5 | 765.9 |
| 50° | 172.3 | 160.2 | 177.2 | 176.6 | 149.6 | 143.3 | 148.0 | 67.7 | 833.6 |
| 55° | 133.3 | 121.6 | 126.4 | 129.1 | 111.8 | 101.0 | 103.0 | 53.0 | 886.6 |
| 60° | 96.7 | 87.9 | 85.2 | 90.2 | 83.1 | 71.0 | 72.1 | 39.7 | 926.3 |
| 65° | 67.7 | 61.0 | 56.3 | 61.1 | 60.5 | 50.8 | 52.1 | 29.0 | 955.3 |
| 70° | 46.9 | 41.7 | 36.5 | 40.2 | 42.1 | 36.4 | 38.1 | 20.6 | 975.8 |
| 75° | 30.9 | 26.7 | 22.6 | 25.0 | 27.1 | 24.7 | 26.6 | 13.7 | 989.5 |
| 80° | 17.8 | 14.8 | 12.0 | 13.1 | 14.7 | 14.1 | 15.6 | 7.7 | 997.1 |
| 85° | 6.6 | 5.4 | 4.4 | 4.8 | 5.3 | 5.4 | 5.9 | 2.9 | 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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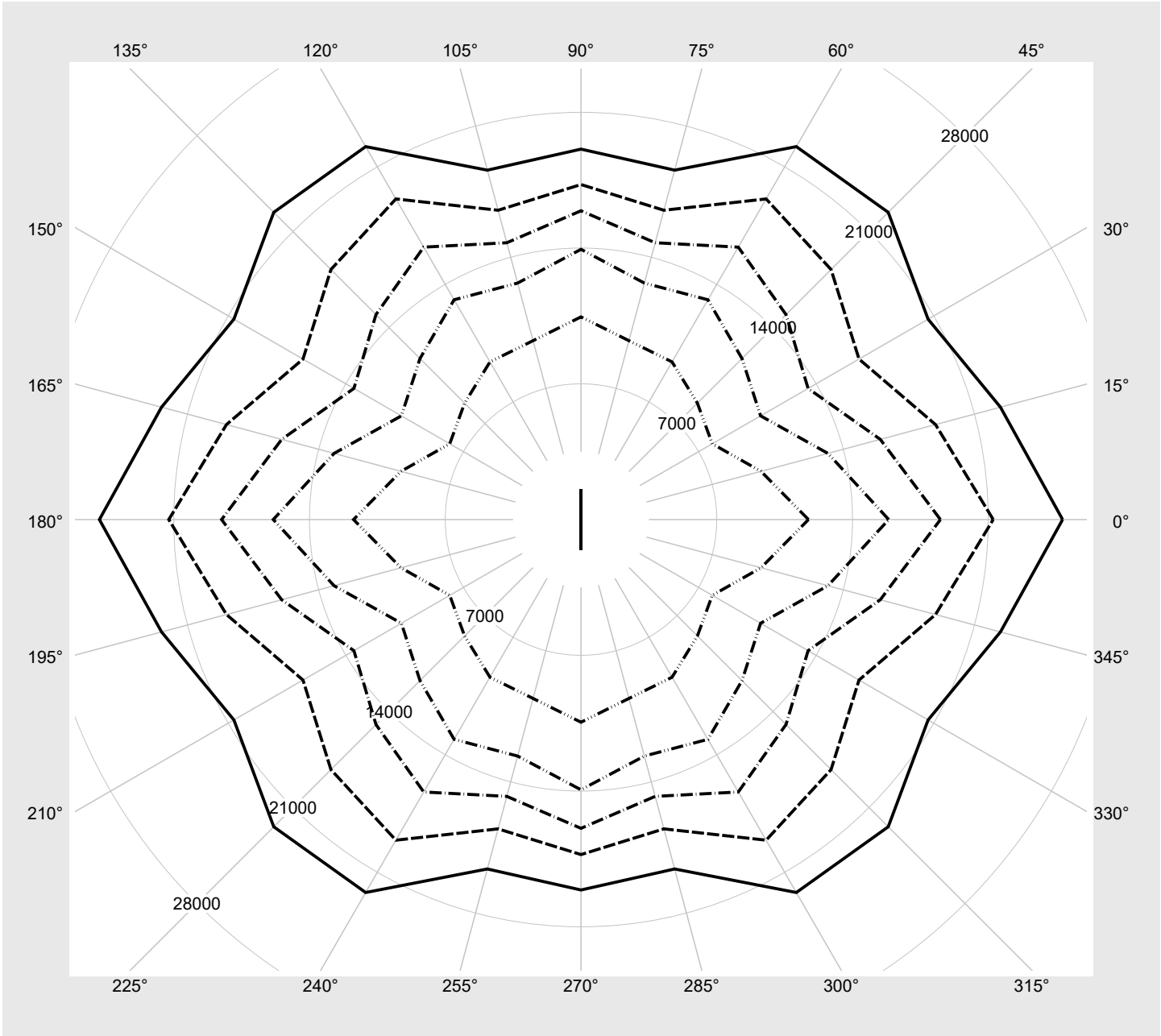
| UGR-Table | | Standard room | | | | | | | | | |
|-----------------|-----|---------------------|------|------|------|------|--------------------|------|------|------|------|
| Room dimensions | | View crosswise (C0) | | | | | View endwise (C90) | | | | |
| x | y | | | | | | | | | | |
| 2H | 2H | 23.9 | 25.4 | 24.3 | 25.7 | 26.0 | 23.4 | 24.9 | 23.7 | 25.2 | 25.5 |
| | 3H | 24.7 | 26.0 | 25.0 | 26.3 | 26.7 | 24.0 | 25.3 | 24.4 | 25.6 | 26.0 |
| | 4H | 24.9 | 26.2 | 25.3 | 26.5 | 26.9 | 24.2 | 25.5 | 24.6 | 25.8 | 26.2 |
| | 6H | 25.2 | 26.3 | 25.6 | 26.7 | 27.1 | 24.4 | 25.6 | 24.9 | 25.9 | 26.3 |
| | 8H | 25.3 | 26.3 | 25.7 | 26.7 | 27.1 | 24.6 | 25.6 | 25.0 | 26.0 | 26.4 |
| | 12H | 25.3 | 26.3 | 25.8 | 26.7 | 27.1 | 24.6 | 25.6 | 25.0 | 26.0 | 26.4 |
| 4H | 2H | 24.3 | 25.5 | 24.6 | 25.8 | 26.2 | 23.8 | 25.1 | 24.2 | 25.4 | 25.8 |
| | 3H | 25.1 | 26.1 | 25.5 | 26.5 | 26.9 | 24.6 | 25.6 | 25.0 | 26.0 | 26.4 |
| | 4H | 25.4 | 26.3 | 25.9 | 26.8 | 27.2 | 24.9 | 25.9 | 25.4 | 26.3 | 26.7 |
| | 6H | 25.7 | 26.5 | 26.2 | 26.9 | 27.4 | 25.2 | 26.0 | 25.7 | 26.4 | 26.9 |
| | 8H | 25.8 | 26.5 | 26.3 | 27.0 | 27.5 | 25.3 | 26.0 | 25.8 | 26.5 | 27.0 |
| | 12H | 25.9 | 26.5 | 26.4 | 27.0 | 27.5 | 25.4 | 26.0 | 25.9 | 26.5 | 27.0 |
| 8H | 4H | 25.5 | 26.2 | 26.0 | 26.7 | 27.2 | 25.1 | 25.8 | 25.5 | 26.2 | 26.7 |
| | 6H | 25.8 | 26.4 | 26.3 | 26.9 | 27.4 | 25.4 | 26.0 | 25.9 | 26.5 | 27.0 |
| | 8H | 26.0 | 26.5 | 26.5 | 27.0 | 27.5 | 25.5 | 26.1 | 26.0 | 26.6 | 27.1 |
| | 12H | 26.1 | 26.5 | 26.6 | 27.0 | 27.5 | 25.6 | 26.1 | 26.2 | 26.6 | 27.1 |
| 12H | 4H | 25.5 | 26.2 | 26.0 | 26.6 | 27.1 | 25.1 | 25.7 | 25.6 | 26.2 | 26.7 |
| | 6H | 25.9 | 26.4 | 26.4 | 26.8 | 27.4 | 25.4 | 25.9 | 26.0 | 26.4 | 27.0 |
| | 8H | 26.0 | 26.4 | 26.5 | 26.9 | 27.5 | 25.6 | 26.0 | 26.1 | 26.5 | 27.1 |

| 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° | 46862.2 | 44731.4 | 50448.6 | 50536.9 | 44474.2 | 43895.3 | 45398.9 | | | | |
| | 50° | 41556.1 | 38654.6 | 42750.2 | 42608.6 | 36089.4 | 34568.0 | 35700.3 | | | | |
| | 55° | 36042.9 | 32861.0 | 34159.5 | 34893.1 | 30216.4 | 27311.9 | 27845.0 | | | | |
| | 60° | 29979.7 | 27252.0 | 26430.8 | 27965.9 | 25780.5 | 22021.0 | 22347.2 | | | | |
| | 65° | 24832.7 | 22391.0 | 20666.2 | 22404.2 | 22206.5 | 18653.4 | 19101.4 | | | | |
| | 70° | 21255.7 | 18925.0 | 16552.5 | 18235.0 | 19090.9 | 16512.6 | 17275.6 | | | | |
| | 75° | 18532.4 | 15977.3 | 13521.6 | 14949.2 | 16221.1 | 14777.9 | 15922.2 | | | | |
| | 80° | 15867.6 | 13182.5 | 10693.9 | 11741.3 | 13086.9 | 12625.3 | 13935.2 | | | | |
| | 85° | 11729.5 | 9608.8 | 7815.5 | 8488.0 | 9388.2 | 9550.1 | 10450.3 | | | | |

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



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|-----------------------------|---------------------------------|---------------|
| Dimming levels table | environmental temperature: 25°C | sITeco |
|-----------------------------|---------------------------------|---------------|

| Luminous flux % | Dimming level linear | Dimming level logarithmic | Luminous flux [lm] | Power consumption [W] |
|-----------------|----------------------|---------------------------|--------------------|-----------------------|
| 100 | 254 | 254 | 13490 | 76.8 |
| 95 | 240 | 252 | 12801 | 72.6 |
| 90 | 227 | 250 | 12155 | 68.6 |
| 85 | 213 | 248 | 11451 | 64.3 |
| 80 | 200 | 245 | 10795 | 60.3 |
| 75 | 187 | 243 | 10133 | 56.5 |
| 70 | 174 | 240 | 9466 | 52.6 |
| 65 | 160 | 237 | 8744 | 48.4 |
| 60 | 148 | 234 | 8117 | 44.8 |
| 55 | 135 | 231 | 7435 | 41.0 |
| 50 | 122 | 227 | 6744 | 37.3 |
| 45 | 109 | 223 | 6050 | 33.5 |
| 40 | 97 | 219 | 5402 | 30.0 |
| 35 | 85 | 214 | 4748 | 26.6 |
| 30 | 72 | 208 | 4036 | 22.9 |
| 25 | 60 | 201 | 3373 | 19.5 |
| 20 | 48 | 193 | 2703 | 16.1 |
| 15 | 36 | 182 | 2032 | 12.6 |
| 10 | 24 | 168 | 1355 | 9.2 |
| 5 | 12 | 142 | 670 | 5.9 |
| 2 | 4 | 102 | 211 | 3.6 |