

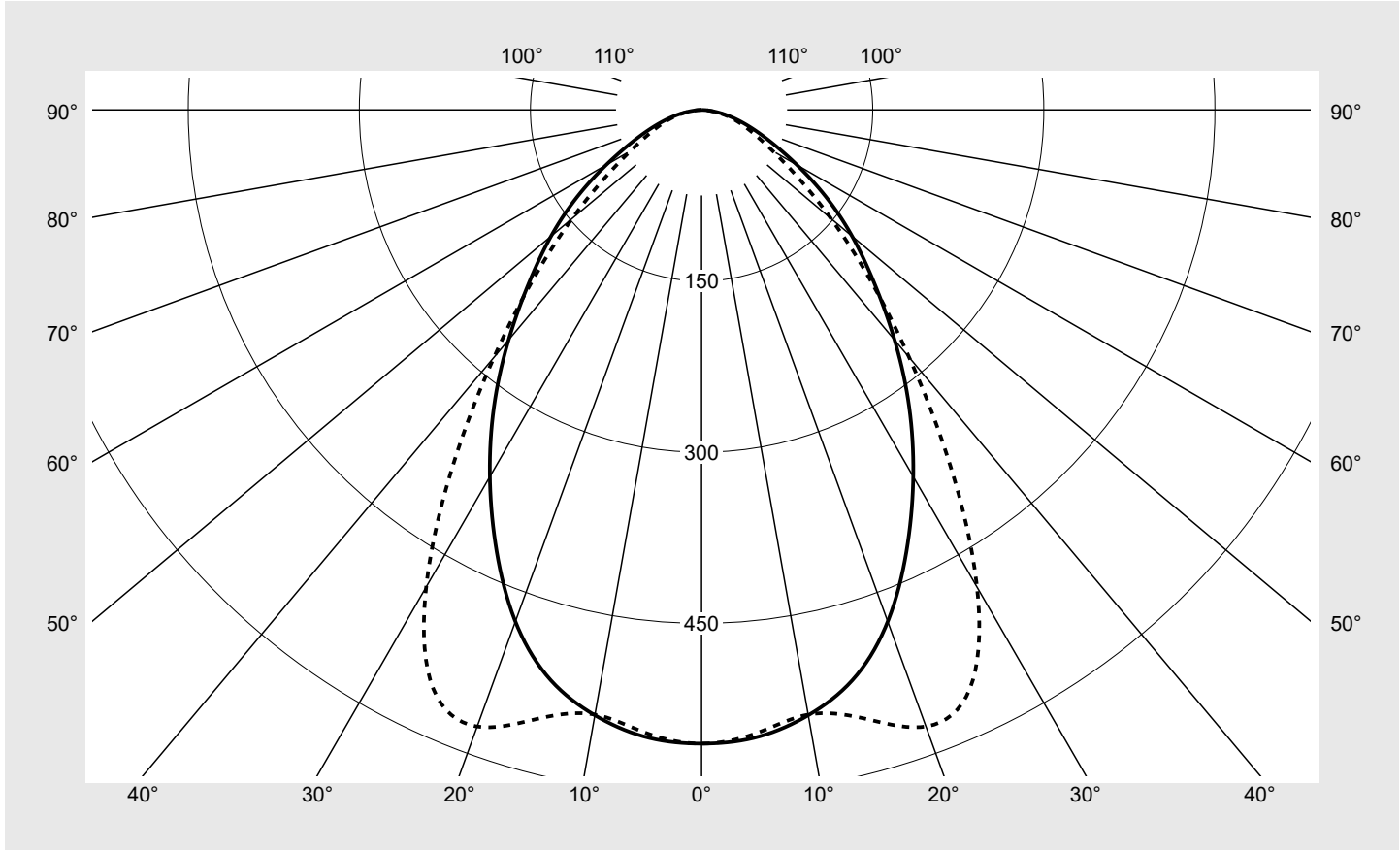


Photometric test report

| | | | | | | | | | | | | |
|--|--|-------------------------------------|---|--------------|-----------------------|--------------------|----------|----------------|---------|---------------------|--|---|
| Family Licross® 11 Recessed | Order number: 51TL12DN4DXL3S EAN: 4058352485286 | LP number 58689_33 | | | | | | | | | | |
|  | <table border="0"> <tr> <td>Version</td> <td>cover frosted, wide distribution, high visual comfort</td> </tr> <tr> <td>Lamps</td> <td>LED 4000 K CRI ≥ 80</td> </tr> <tr> <td>Controlgear</td> <td>ECG-DALI</td> </tr> <tr> <td>Setting</td> <td>AC-mode</td> </tr> <tr> <td>Rated values</td> <td> Net luminous flux = 13000 lm Power consumption = 79.8 W Luminous efficacy = 162.9 lm/W </td> </tr> </table> | Version | cover frosted, wide distribution, high visual comfort | Lamps | LED 4000 K CRI ≥ 80 | Controlgear | ECG-DALI | Setting | AC-mode | Rated values | Net luminous flux = 13000 lm Power consumption = 79.8 W Luminous efficacy = 162.9 lm/W | serial documentation 04.05.2021  |
| Version | cover frosted, wide distribution, high visual comfort | | | | | | | | | | | |
| Lamps | LED 4000 K CRI ≥ 80 | | | | | | | | | | | |
| Controlgear | ECG-DALI | | | | | | | | | | | |
| Setting | AC-mode | | | | | | | | | | | |
| Rated values | Net luminous flux = 13000 lm Power consumption = 79.8 W Luminous efficacy = 162.9 lm/W | | | | | | | | | | | |

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

| | | |
|---|--|-----------------------------------|
| Family Licross® 11 Recessed | Order number: 51TL12DN4DXL3S EAN: 4058352485286 | LP number 58689_33 |
| 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 | 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 | 23.8 | 25.3 | 24.2 | 25.6 | 25.9 | 23.3 | 24.7 | 23.6 | 25.1 | 25.4 |
| | 3H | 24.5 | 25.8 | 24.9 | 26.2 | 26.5 | 23.8 | 25.2 | 24.2 | 25.5 | 25.9 |
| | 4H | 24.8 | 26.0 | 25.2 | 26.4 | 26.8 | 24.1 | 25.3 | 24.5 | 25.7 | 26.1 |
| | 6H | 25.0 | 26.2 | 25.4 | 26.5 | 26.9 | 24.3 | 25.4 | 24.7 | 25.8 | 26.2 |
| | 8H | 25.2 | 26.2 | 25.6 | 26.6 | 27.0 | 24.4 | 25.5 | 24.9 | 25.8 | 26.3 |
| 12H | 25.2 | 26.2 | 25.6 | 26.5 | 27.0 | 24.5 | 25.4 | 24.9 | 25.8 | 26.2 | |
| 4H | 2H | 24.1 | 25.4 | 24.5 | 25.7 | 26.1 | 23.7 | 24.9 | 24.1 | 25.3 | 25.6 |
| | 3H | 24.9 | 26.0 | 25.4 | 26.4 | 26.8 | 24.5 | 25.5 | 24.9 | 25.9 | 26.3 |
| | 4H | 25.3 | 26.2 | 25.7 | 26.6 | 27.1 | 24.8 | 25.7 | 25.3 | 26.1 | 26.6 |
| | 6H | 25.6 | 26.4 | 26.0 | 26.8 | 27.3 | 25.1 | 25.9 | 25.6 | 26.3 | 26.8 |
| | 8H | 25.7 | 26.4 | 26.2 | 26.8 | 27.3 | 25.2 | 25.9 | 25.7 | 26.4 | 26.8 |
| 12H | 25.8 | 26.4 | 26.2 | 26.8 | 27.3 | 25.3 | 25.9 | 25.8 | 26.3 | 26.8 | |
| 8H | 4H | 25.4 | 26.1 | 25.9 | 26.5 | 27.0 | 24.9 | 25.7 | 25.4 | 26.1 | 26.6 |
| | 6H | 25.7 | 26.3 | 26.2 | 26.8 | 27.3 | 25.3 | 25.9 | 25.8 | 26.4 | 26.9 |
| | 8H | 25.8 | 26.4 | 26.3 | 26.8 | 27.4 | 25.4 | 25.9 | 25.9 | 26.4 | 26.9 |
| | 12H | 25.9 | 26.4 | 26.4 | 26.9 | 27.4 | 25.5 | 25.9 | 26.0 | 26.4 | 27.0 |
| 12H | 4H | 25.4 | 26.0 | 25.9 | 26.5 | 27.0 | 25.0 | 25.6 | 25.4 | 26.0 | 26.5 |
| | 6H | 25.7 | 26.2 | 26.2 | 26.7 | 27.2 | 25.3 | 25.8 | 25.8 | 26.3 | 26.8 |
| | 8H | 25.9 | 26.3 | 26.4 | 26.8 | 27.3 | 25.5 | 25.9 | 26.0 | 26.4 | 26.9 |

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

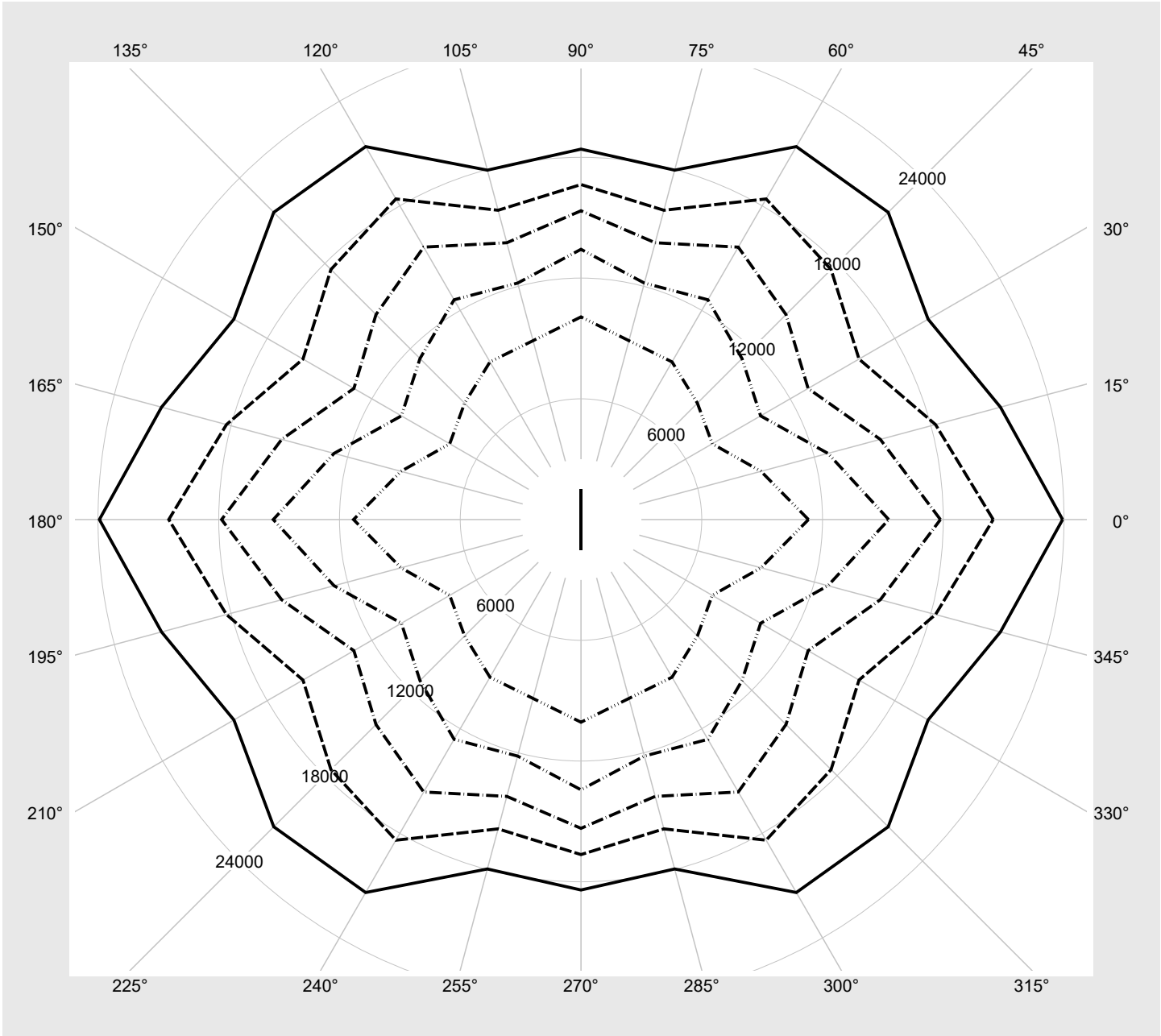
| C-planes | γ | Luminance in cd/m ² | | | | | | |
|----------|----------|--------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-------------|
| | | 0° 180° | 15° 165° 195° 345° | 30° 150° 210° 330° | 45° 135° 225° 315° | 60° 120° 240° 300° | 75° 105° 255° 285° | 90° 270° |
| 45° | | 45160.0 | 43106.6 | 48616.1 | 48701.3 | 42858.7 | 42300.8 | 43749.9 |
| 50° | | 40046.7 | 37250.6 | 41197.4 | 41060.9 | 34778.5 | 33312.4 | 34403.6 |
| 55° | | 34733.7 | 31667.4 | 32918.7 | 33625.7 | 29118.8 | 26319.8 | 26833.6 |
| 60° | | 28890.8 | 26262.1 | 25470.7 | 26950.0 | 24844.0 | 21221.1 | 21535.5 |
| 65° | | 23930.7 | 21577.7 | 19915.6 | 21590.4 | 21399.8 | 17975.9 | 18407.6 |
| 70° | | 20483.6 | 18237.5 | 15951.3 | 17572.6 | 18397.5 | 15912.9 | 16648.1 |
| 75° | | 17859.3 | 15396.9 | 13030.5 | 14406.2 | 15631.9 | 14241.1 | 15343.8 |
| 80° | | 15291.2 | 12703.6 | 10305.4 | 11314.8 | 12611.6 | 12166.7 | 13429.1 |
| 85° | | 11303.5 | 9259.8 | 7531.6 | 8179.7 | 9047.2 | 9203.2 | 10070.8 |

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Luminance values in cd/m²

γ 65°
γ 70°
γ 75°
γ 80°
γ 85°



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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 | 13000 | 79.8 |
| 95 | 240 | 252 | 12337 | 75.5 |
| 90 | 227 | 250 | 11715 | 71.6 |
| 85 | 213 | 248 | 11035 | 67.4 |
| 80 | 200 | 245 | 10401 | 63.5 |
| 75 | 187 | 243 | 9759 | 59.6 |
| 70 | 174 | 240 | 9113 | 55.9 |
| 65 | 161 | 237 | 8461 | 52.0 |
| 60 | 148 | 234 | 7794 | 48.3 |
| 55 | 135 | 231 | 7128 | 44.4 |
| 50 | 123 | 227 | 6512 | 41.0 |
| 45 | 110 | 223 | 5840 | 37.2 |
| 40 | 98 | 219 | 5219 | 33.9 |
| 35 | 85 | 214 | 4534 | 30.1 |
| 30 | 73 | 208 | 3900 | 26.8 |
| 25 | 61 | 202 | 3260 | 23.4 |
| 20 | 49 | 194 | 2617 | 20.0 |
| 15 | 37 | 183 | 1969 | 16.6 |
| 10 | 25 | 169 | 1318 | 13.3 |
| 5 | 13 | 145 | 667 | 10.0 |
| 2 | 5 | 110 | 240 | 7.9 |