

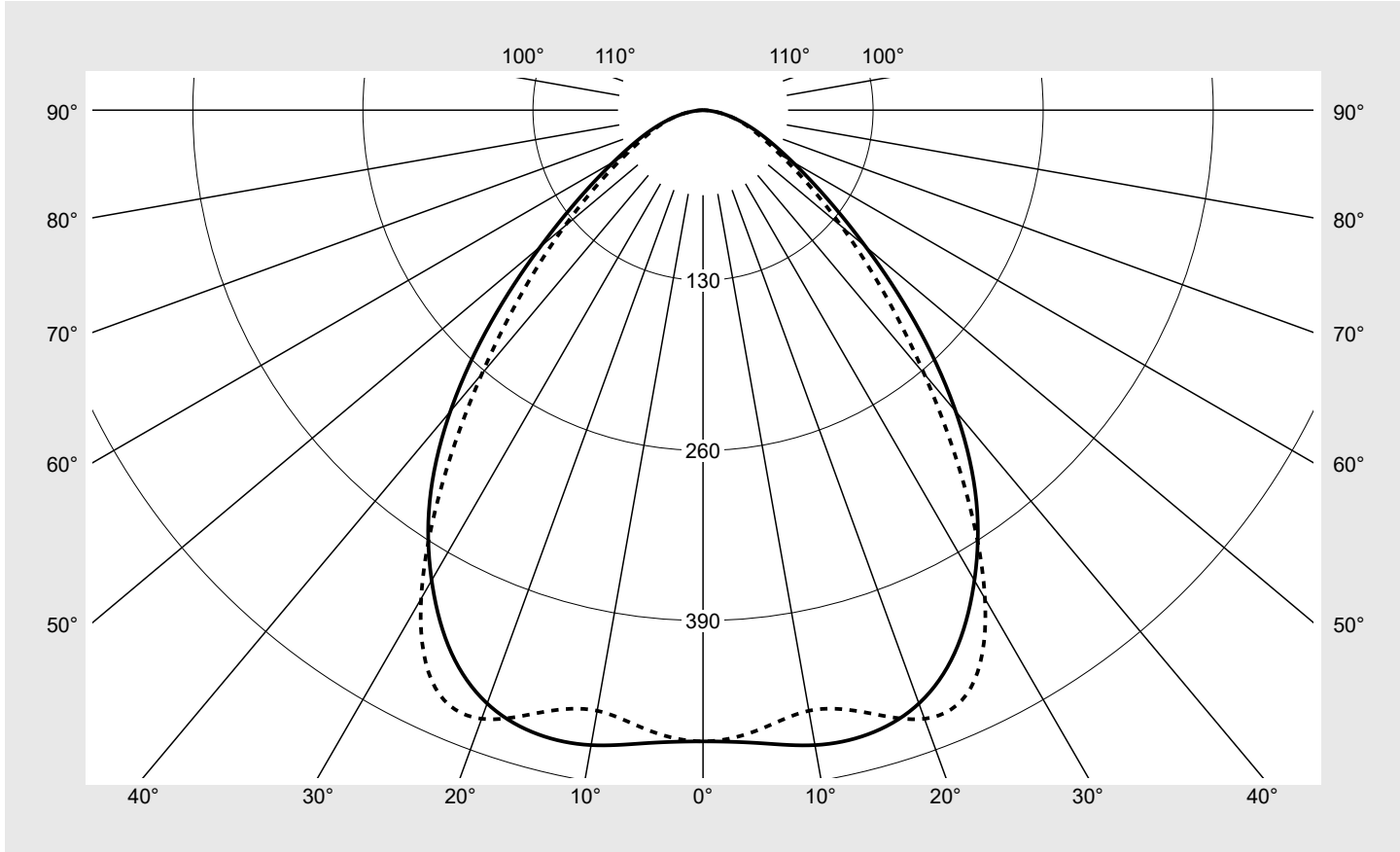


Photometric test report

| | | |
|--|--|---|
| Family Licross® 11 Recessed | Order number: 51TL12DV475F EAN: 4058352448984 | LP number 58637_36 |
|  | Version cover frosted, wide distribution, high visual comfort Lamps LED 4000 K CRI ≥ 80 Controlgear ECG-DALI Rated values Net luminous flux = 7640 lm Power consumption = 42.1 W Luminous efficacy = 181.5 lm/W | serial documentation 28.09.2020  |

Luminous intensity in cd/klm C180-0 C270-90 **Imax: 498 cd/klm**



| Classifications | |
|-----------------|------------------------------------|
| DIN 5040 | A 5 0 |
| CIE | N1=67 N2=92 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° | 482.3 | 482.3 | 482.3 | 482.3 | 482.3 | 482.3 | 482.3 | 2.9 | 2.9 |
| 5° | 485.4 | 482.8 | 478.2 | 477.5 | 477.4 | 475.9 | 475.7 | 22.9 | 25.8 |
| 10° | 492.7 | 488.2 | 477.9 | 471.3 | 467.6 | 465.9 | 466.0 | 45.2 | 71.0 |
| 15° | 493.2 | 486.1 | 471.9 | 467.9 | 471.0 | 473.7 | 476.3 | 67.5 | 138.5 |
| 20° | 482.5 | 473.5 | 462.5 | 471.9 | 487.1 | 492.8 | 494.9 | 89.9 | 228.4 |
| 25° | 456.4 | 447.1 | 449.2 | 479.4 | 497.6 | 491.1 | 485.8 | 109.5 | 337.8 |
| 30° | 414.9 | 406.8 | 427.0 | 475.1 | 479.0 | 447.1 | 431.1 | 121.4 | 459.2 |
| 35° | 364.2 | 358.0 | 387.7 | 436.7 | 420.7 | 368.9 | 346.8 | 122.0 | 581.2 |
| 40° | 300.5 | 296.3 | 322.5 | 357.9 | 336.0 | 284.8 | 262.9 | 110.4 | 691.6 |
| 45° | 229.2 | 226.3 | 238.5 | 259.8 | 247.2 | 211.8 | 193.4 | 90.1 | 781.7 |
| 50° | 162.3 | 159.3 | 161.6 | 173.6 | 174.5 | 155.2 | 138.5 | 68.2 | 849.9 |
| 55° | 112.5 | 108.0 | 105.1 | 112.3 | 121.6 | 110.9 | 97.2 | 49.6 | 899.5 |
| 60° | 78.7 | 73.1 | 68.3 | 73.1 | 83.7 | 77.4 | 68.5 | 35.5 | 935.0 |
| 65° | 56.0 | 50.2 | 45.0 | 48.4 | 56.8 | 54.5 | 49.6 | 25.5 | 960.5 |
| 70° | 39.5 | 34.5 | 29.5 | 32.1 | 37.8 | 38.5 | 36.6 | 18.1 | 978.6 |
| 75° | 26.0 | 22.0 | 18.4 | 20.2 | 23.9 | 25.9 | 25.8 | 12.0 | 990.6 |
| 80° | 14.9 | 12.2 | 9.9 | 10.8 | 13.0 | 14.8 | 15.3 | 6.8 | 997.4 |
| 85° | 5.4 | 4.3 | 3.6 | 4.0 | 4.7 | 5.6 | 5.8 | 2.5 | 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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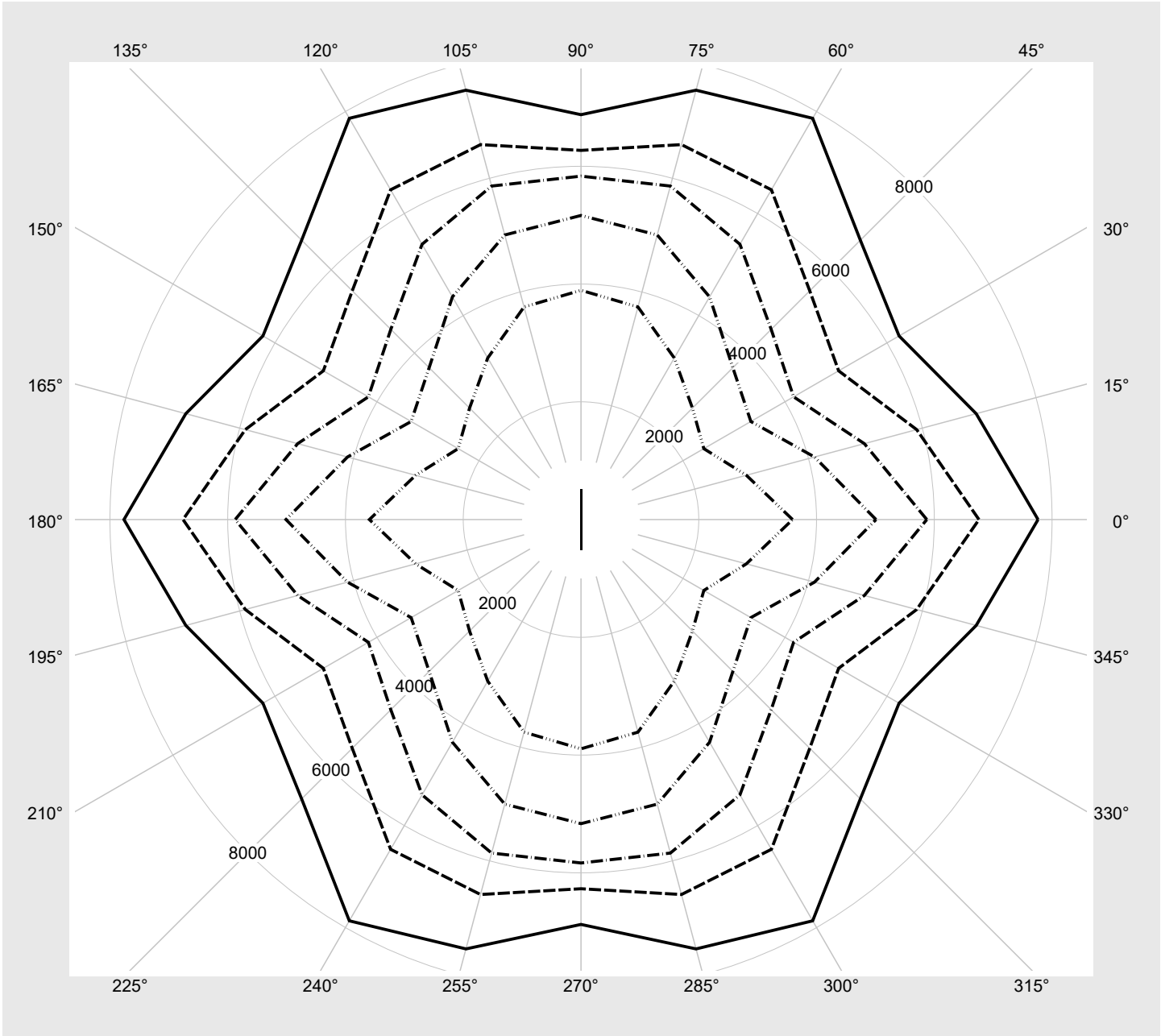
| UGR-Table | | Standard room | | | | | | | | | |
|------------------------------|-----|---------------------|------|------|------|------|--------------------|------|------|------|------|
| Reflection factor of ceiling | 0.7 | 0.7 | 0.5 | 0.5 | 0.3 | 0.7 | 0.7 | 0.5 | 0.5 | 0.3 | |
| Reflection factor 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 | 20.3 | 21.8 | 20.6 | 22.1 | 22.4 | 20.4 | 21.9 | 20.7 | 22.2 | 22.5 |
| | 3H | 20.8 | 22.1 | 21.2 | 22.5 | 22.8 | 20.9 | 22.2 | 21.3 | 22.6 | 22.9 |
| | 4H | 21.0 | 22.3 | 21.4 | 22.6 | 23.0 | 21.2 | 22.4 | 21.6 | 22.7 | 23.1 |
| | 6H | 21.2 | 22.3 | 21.6 | 22.7 | 23.1 | 21.4 | 22.5 | 21.8 | 22.9 | 23.2 |
| | 8H | 21.3 | 22.3 | 21.7 | 22.7 | 23.1 | 21.5 | 22.5 | 21.9 | 22.9 | 23.3 |
| | 12H | 21.3 | 22.3 | 21.8 | 22.7 | 23.1 | 21.5 | 22.5 | 21.9 | 22.8 | 23.3 |
| 4H | 2H | 20.5 | 21.7 | 20.9 | 22.1 | 22.5 | 20.6 | 21.8 | 21.0 | 22.2 | 22.6 |
| | 3H | 21.1 | 22.1 | 21.5 | 22.5 | 22.9 | 21.3 | 22.3 | 21.7 | 22.7 | 23.1 |
| | 4H | 21.4 | 22.3 | 21.8 | 22.7 | 23.2 | 21.6 | 22.6 | 22.1 | 23.0 | 23.4 |
| | 6H | 21.6 | 22.4 | 22.1 | 22.8 | 23.3 | 21.9 | 22.7 | 22.4 | 23.1 | 23.6 |
| | 8H | 21.7 | 22.4 | 22.2 | 22.9 | 23.3 | 22.0 | 22.7 | 22.5 | 23.2 | 23.7 |
| | 12H | 21.8 | 22.4 | 22.3 | 22.8 | 23.3 | 22.1 | 22.7 | 22.6 | 23.2 | 23.7 |
| 8H | 4H | 21.5 | 22.2 | 21.9 | 22.6 | 23.1 | 21.7 | 22.4 | 22.2 | 22.9 | 23.3 |
| | 6H | 21.7 | 22.3 | 22.2 | 22.8 | 23.3 | 22.0 | 22.6 | 22.5 | 23.1 | 23.6 |
| | 8H | 21.8 | 22.3 | 22.3 | 22.8 | 23.3 | 22.2 | 22.7 | 22.7 | 23.2 | 23.7 |
| | 12H | 21.9 | 22.3 | 22.4 | 22.8 | 23.4 | 22.3 | 22.7 | 22.8 | 23.2 | 23.7 |
| 12H | 4H | 21.5 | 22.1 | 22.0 | 22.6 | 23.0 | 21.7 | 22.3 | 22.2 | 22.8 | 23.3 |
| | 6H | 21.7 | 22.2 | 22.2 | 22.7 | 23.2 | 22.0 | 22.5 | 22.6 | 23.0 | 23.6 |
| | 8H | 21.8 | 22.3 | 22.4 | 22.8 | 23.3 | 22.2 | 22.6 | 22.7 | 23.1 | 23.7 |

| Luminance table | | Max. for $\gamma \geq 65^\circ$ | | Photometric dimensions in mm: | | L = 2250 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° | | 18972.4 | 18736.7 | 19747.0 | 21508.8 | 20463.7 | 17539.0 | 16008.4 |
| 50° | | 14782.1 | 14512.4 | 14718.5 | 15814.7 | 15896.1 | 14138.6 | 12615.1 |
| 55° | | 11480.9 | 11022.0 | 10728.4 | 11466.7 | 12415.8 | 11324.1 | 9918.9 |
| 60° | | 9216.0 | 8563.9 | 7999.9 | 8563.0 | 9795.0 | 9058.6 | 8014.7 |
| 65° | | 7762.2 | 6948.4 | 6237.7 | 6709.7 | 7869.4 | 7549.6 | 6876.5 |
| 70° | | 6758.9 | 5902.3 | 5052.5 | 5494.1 | 6467.4 | 6593.0 | 6270.4 |
| 75° | | 5873.2 | 4981.8 | 4169.5 | 4568.0 | 5398.9 | 5864.4 | 5832.7 |
| 80° | | 5010.6 | 4105.7 | 3331.0 | 3647.2 | 4367.3 | 5003.9 | 5165.0 |
| 85° | | 3593.7 | 2907.2 | 2408.8 | 2676.8 | 3168.5 | 3738.1 | 3893.9 |

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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 | 7640 | 42.1 |
| 95 | 241 | 252 | 7259 | 40.1 |
| 90 | 228 | 250 | 6877 | 38.0 |
| 85 | 215 | 248 | 6492 | 35.9 |
| 80 | 202 | 246 | 6107 | 33.9 |
| 75 | 189 | 243 | 5719 | 31.8 |
| 70 | 177 | 241 | 5359 | 29.9 |
| 65 | 164 | 238 | 4967 | 27.9 |
| 60 | 151 | 235 | 4575 | 25.8 |
| 55 | 139 | 232 | 4211 | 24.0 |
| 50 | 126 | 228 | 3814 | 21.9 |
| 45 | 114 | 225 | 3447 | 20.0 |
| 40 | 101 | 220 | 3048 | 18.1 |
| 35 | 89 | 216 | 2677 | 16.2 |
| 30 | 77 | 210 | 2306 | 14.4 |
| 25 | 64 | 204 | 1902 | 12.3 |
| 20 | 52 | 196 | 1527 | 10.4 |
| 15 | 40 | 186 | 1151 | 8.7 |
| 10 | 28 | 173 | 773 | 6.8 |
| 5 | 16 | 153 | 394 | 5.0 |
| 3 | 12 | 142 | 267 | 4.4 |