

Photometric test report

Family
Licross® 21 Recessed

Order number: 52TL12DN1E5M
EAN: 4058352971277

LP number
59446_85



Version cover frosted, wide distribution, high visual comfort
Lamps LED 3500 K | CRI ≥ 80
Controlgear ECG-DALI
Rated values Net luminous flux = 14510 lm
 Power consumption = 84.6 W
 Luminous efficacy = 171.5 lm/W

serial
documentation
28.09.2023

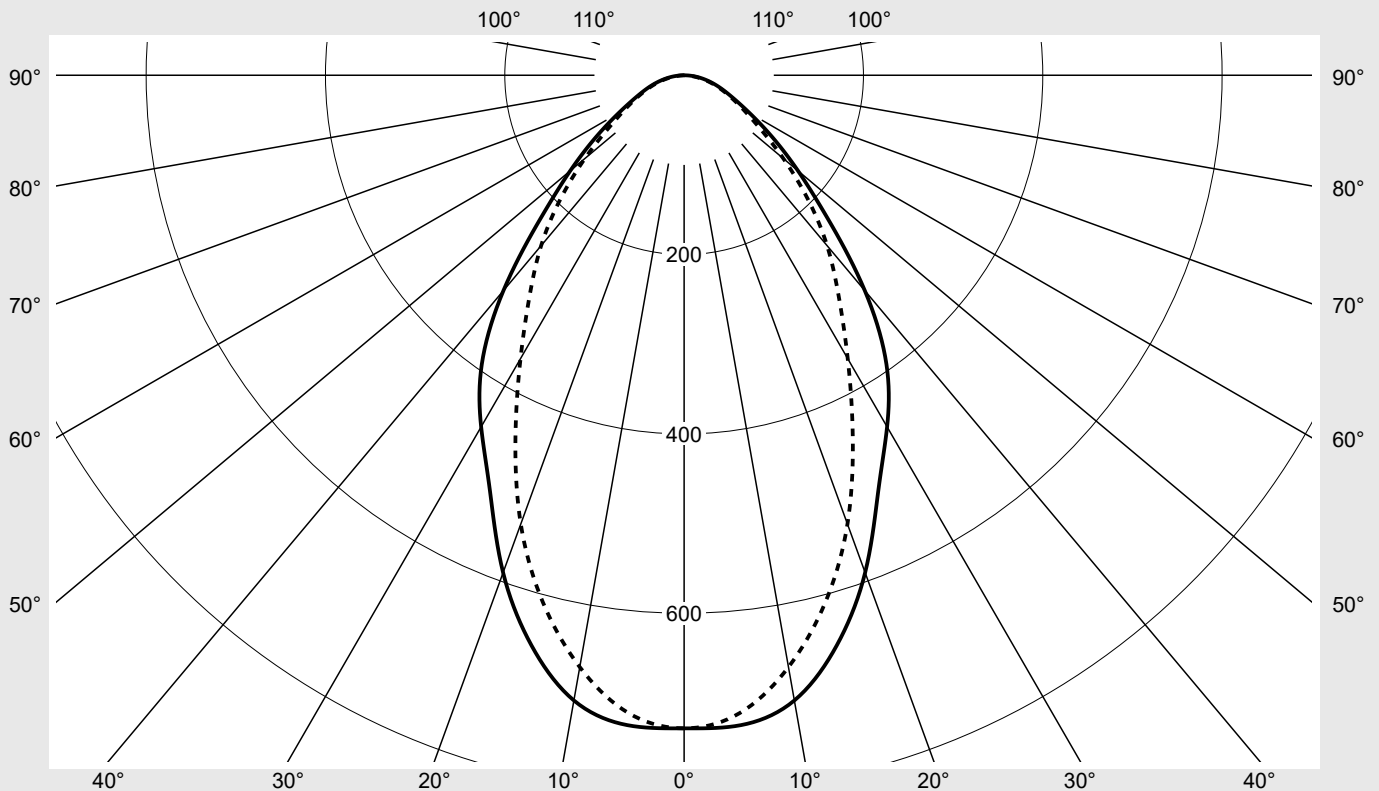
sitEco

Luminous intensity in cd/klm

C180-0

C270-90

Imax: 728 cd/klm



Classifications

DIN 5040 A 5 0
 CIE N1=69 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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|---|--|-------------------------------------|
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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° | 728.4 | 728.4 | 728.4 | 728.4 | 728.4 | 728.4 | 728.4 | 4.4 | 4.4 |
| 5° | 727.5 | 724.8 | 717.6 | 716.9 | 716.5 | 714.4 | 713.9 | 34.3 | 38.7 |
| 10° | 708.0 | 704.6 | 693.5 | 687.1 | 680.0 | 672.5 | 670.2 | 65.5 | 104.1 |
| 15° | 658.1 | 653.2 | 637.7 | 629.5 | 623.7 | 612.7 | 608.6 | 89.6 | 193.8 |
| 20° | 590.3 | 582.5 | 562.9 | 551.9 | 546.6 | 538.5 | 532.6 | 104.5 | 298.2 |
| 25° | 512.2 | 499.8 | 475.2 | 461.5 | 453.8 | 449.4 | 445.1 | 108.8 | 407.1 |
| 30° | 452.8 | 433.7 | 396.2 | 371.8 | 363.4 | 365.0 | 364.9 | 106.8 | 513.9 |
| 35° | 393.4 | 374.1 | 335.3 | 295.7 | 285.6 | 295.2 | 300.5 | 101.3 | 615.2 |
| 40° | 313.5 | 300.8 | 276.8 | 238.3 | 224.4 | 239.2 | 248.1 | 91.6 | 706.8 |
| 45° | 227.2 | 217.7 | 208.5 | 191.4 | 176.2 | 187.2 | 194.9 | 77.0 | 783.8 |
| 50° | 165.8 | 151.3 | 143.3 | 147.8 | 138.9 | 142.4 | 144.5 | 61.5 | 845.3 |
| 55° | 119.7 | 105.2 | 93.7 | 108.9 | 109.4 | 104.2 | 103.2 | 47.4 | 892.7 |
| 60° | 84.3 | 73.0 | 63.0 | 78.5 | 83.8 | 75.4 | 76.1 | 35.9 | 928.6 |
| 65° | 60.6 | 51.5 | 43.5 | 55.3 | 61.5 | 55.5 | 56.9 | 27.0 | 955.6 |
| 70° | 44.8 | 36.9 | 29.5 | 37.3 | 40.5 | 40.0 | 42.0 | 19.5 | 975.1 |
| 75° | 31.9 | 25.4 | 19.2 | 23.6 | 27.6 | 27.0 | 29.3 | 13.5 | 988.6 |
| 80° | 20.2 | 15.5 | 11.1 | 12.8 | 15.3 | 15.6 | 17.2 | 8.0 | 996.7 |
| 85° | 9.4 | 7.2 | 4.9 | 5.0 | 5.8 | 6.0 | 6.3 | 3.3 | 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 |
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| | | | | | | | | | | | |
|------------------------------|---------------------|------|------|------|------|--------------------|------|------|------|------|------|
| 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 | 23.6 | 25.1 | 24.0 | 25.4 | 25.7 | 23.2 | 24.7 | 23.6 | 25.0 | 25.3 |
| | 3H | 24.3 | 25.6 | 24.7 | 25.9 | 26.3 | 24.0 | 25.3 | 24.4 | 25.7 | 26.0 |
| | 4H | 24.6 | 25.8 | 25.0 | 26.2 | 26.6 | 24.4 | 25.6 | 24.8 | 25.9 | 26.3 |
| | 6H | 25.0 | 26.1 | 25.4 | 26.4 | 26.8 | 24.7 | 25.8 | 25.1 | 26.1 | 26.5 |
| | 8H | 25.2 | 26.1 | 25.6 | 26.5 | 26.9 | 24.8 | 25.8 | 25.2 | 26.2 | 26.6 |
| | 12H | 25.3 | 26.2 | 25.7 | 26.6 | 27.0 | 24.9 | 25.8 | 25.3 | 26.2 | 26.6 |
| 4H | 2H | 23.9 | 25.1 | 24.3 | 25.5 | 25.8 | 23.6 | 24.8 | 24.0 | 25.2 | 25.5 |
| | 3H | 24.6 | 25.7 | 25.1 | 26.0 | 26.5 | 24.6 | 25.6 | 25.0 | 26.0 | 26.4 |
| | 4H | 25.0 | 25.9 | 25.5 | 26.4 | 26.8 | 25.0 | 25.9 | 25.5 | 26.4 | 26.8 |
| | 6H | 25.5 | 26.2 | 25.9 | 26.6 | 27.1 | 25.4 | 26.2 | 25.9 | 26.6 | 27.1 |
| | 8H | 25.6 | 26.3 | 26.1 | 26.8 | 27.2 | 25.5 | 26.2 | 26.0 | 26.7 | 27.2 |
| | 12H | 25.8 | 26.4 | 26.3 | 26.9 | 27.3 | 25.6 | 26.2 | 26.1 | 26.7 | 27.2 |
| 8H | 4H | 25.2 | 25.9 | 25.6 | 26.3 | 26.8 | 25.2 | 25.9 | 25.6 | 26.3 | 26.8 |
| | 6H | 25.6 | 26.2 | 26.1 | 26.6 | 27.1 | 25.6 | 26.2 | 26.1 | 26.6 | 27.2 |
| | 8H | 25.8 | 26.3 | 26.3 | 26.8 | 27.3 | 25.8 | 26.3 | 26.3 | 26.8 | 27.3 |
| | 12H | 26.0 | 26.4 | 26.5 | 26.9 | 27.5 | 25.9 | 26.3 | 26.4 | 26.8 | 27.3 |
| 12H | 4H | 25.2 | 25.8 | 25.7 | 26.2 | 26.7 | 25.2 | 25.8 | 25.7 | 26.2 | 26.7 |
| | 6H | 25.6 | 26.1 | 26.1 | 26.6 | 27.1 | 25.6 | 26.1 | 26.1 | 26.6 | 27.1 |
| | 8H | 25.8 | 26.2 | 26.3 | 26.7 | 27.3 | 25.8 | 26.2 | 26.3 | 26.7 | 27.3 |

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

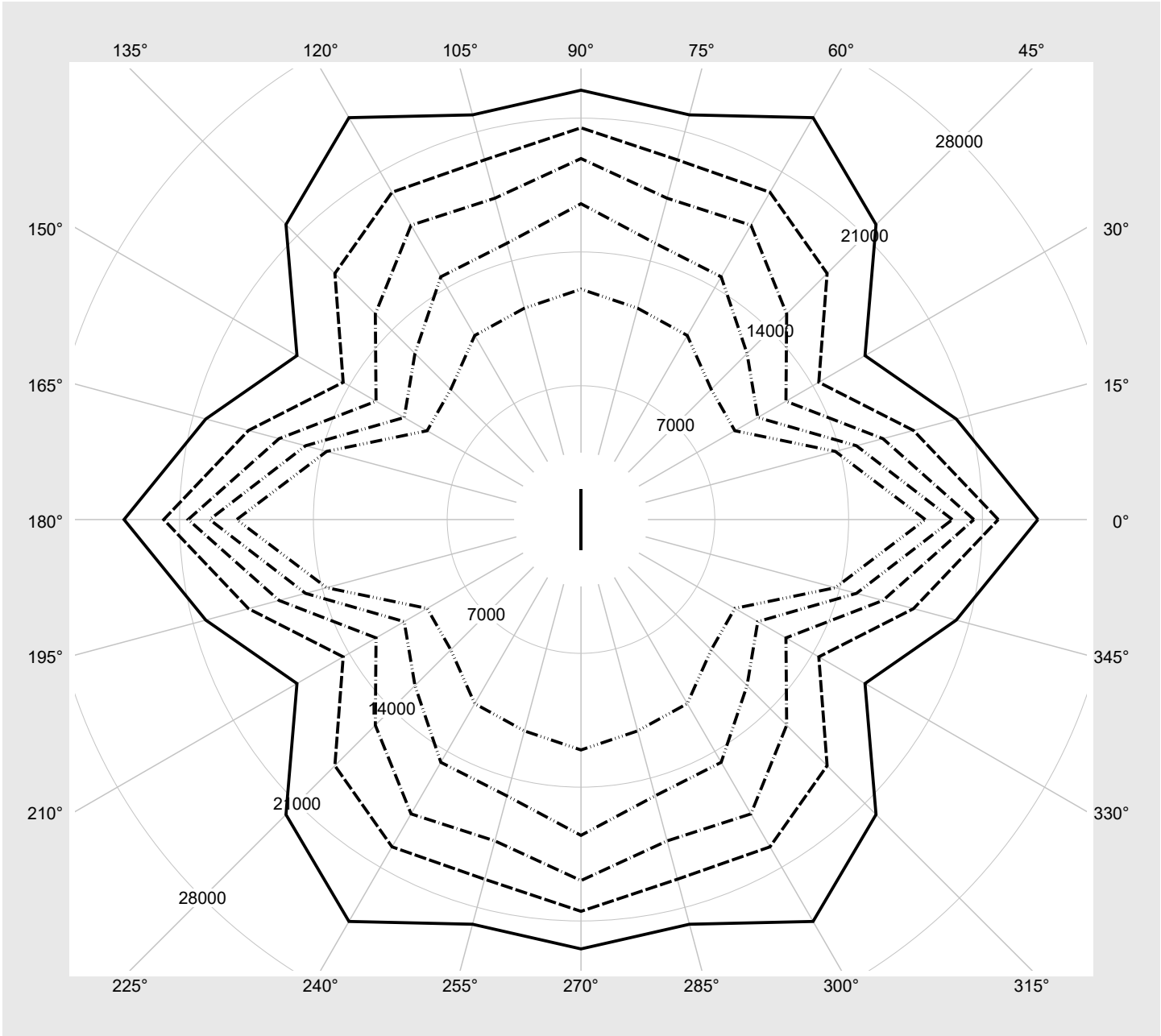
| C-planes | γ | Luminance in cd/m ² | | | | | | | |
|----------|----------|--------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-------------|--|
| | | 0° 180° | 15° 165° 195° 345° | 30° 150° 210° 330° | 45° 135° 225° 315° | 60° 120° 240° 300° | 75° 105° 255° 285° | 90° 270° | |
| 45° | 45° | 53599.8 | 51345.2 | 49178.3 | 45151.4 | 41562.9 | 44142.8 | 45962.5 | |
| 50° | 50° | 43028.6 | 39253.9 | 37179.7 | 38337.2 | 36050.0 | 36942.3 | 37480.9 | |
| 55° | 55° | 34813.9 | 30601.7 | 27250.3 | 31669.5 | 31822.7 | 30295.5 | 30011.7 | |
| 60° | 60° | 28133.7 | 24340.4 | 21007.1 | 26180.0 | 27942.3 | 25151.7 | 25394.5 | |
| 65° | 65° | 23906.0 | 20323.1 | 17156.5 | 21827.1 | 24279.0 | 21919.0 | 22462.8 | |
| 70° | 70° | 21830.5 | 18008.4 | 14365.3 | 18209.3 | 19771.7 | 19481.6 | 20496.4 | |
| 75° | 75° | 20553.6 | 16352.8 | 12380.8 | 15216.7 | 17780.8 | 17405.1 | 18886.6 | |
| 80° | 80° | 19427.2 | 14918.8 | 10678.4 | 12285.2 | 14666.2 | 14966.8 | 16522.7 | |
| 85° | 85° | 18012.8 | 13774.1 | 9294.4 | 9635.0 | 11120.0 | 11447.2 | 12053.8 | |

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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 | 14510 | 84.6 |
| 95 | 240 | 252 | 13783 | 80.0 |
| 90 | 226 | 250 | 13047 | 75.2 |
| 85 | 213 | 248 | 12358 | 71.0 |
| 80 | 199 | 245 | 11605 | 66.3 |
| 75 | 186 | 243 | 10893 | 62.0 |
| 70 | 173 | 240 | 10178 | 57.8 |
| 65 | 160 | 237 | 9452 | 53.6 |
| 60 | 147 | 234 | 8722 | 49.3 |
| 55 | 134 | 231 | 7984 | 45.1 |
| 50 | 121 | 227 | 7235 | 40.9 |
| 45 | 109 | 223 | 6541 | 37.1 |
| 40 | 96 | 218 | 5782 | 32.9 |
| 35 | 84 | 213 | 5072 | 29.1 |
| 30 | 72 | 208 | 4358 | 25.4 |
| 25 | 60 | 201 | 3640 | 21.6 |
| 20 | 48 | 193 | 2914 | 17.8 |
| 15 | 36 | 182 | 2186 | 14.0 |
| 10 | 24 | 168 | 1453 | 10.2 |
| 5 | 12 | 142 | 712 | 6.5 |
| 1 | 4 | 102 | 217 | 4.1 |