

Photometric test report

Family
Licross® 11 Protected

Order number: 51TS12VN4CXLD
EAN: 4058352493571

LP number
58521_39



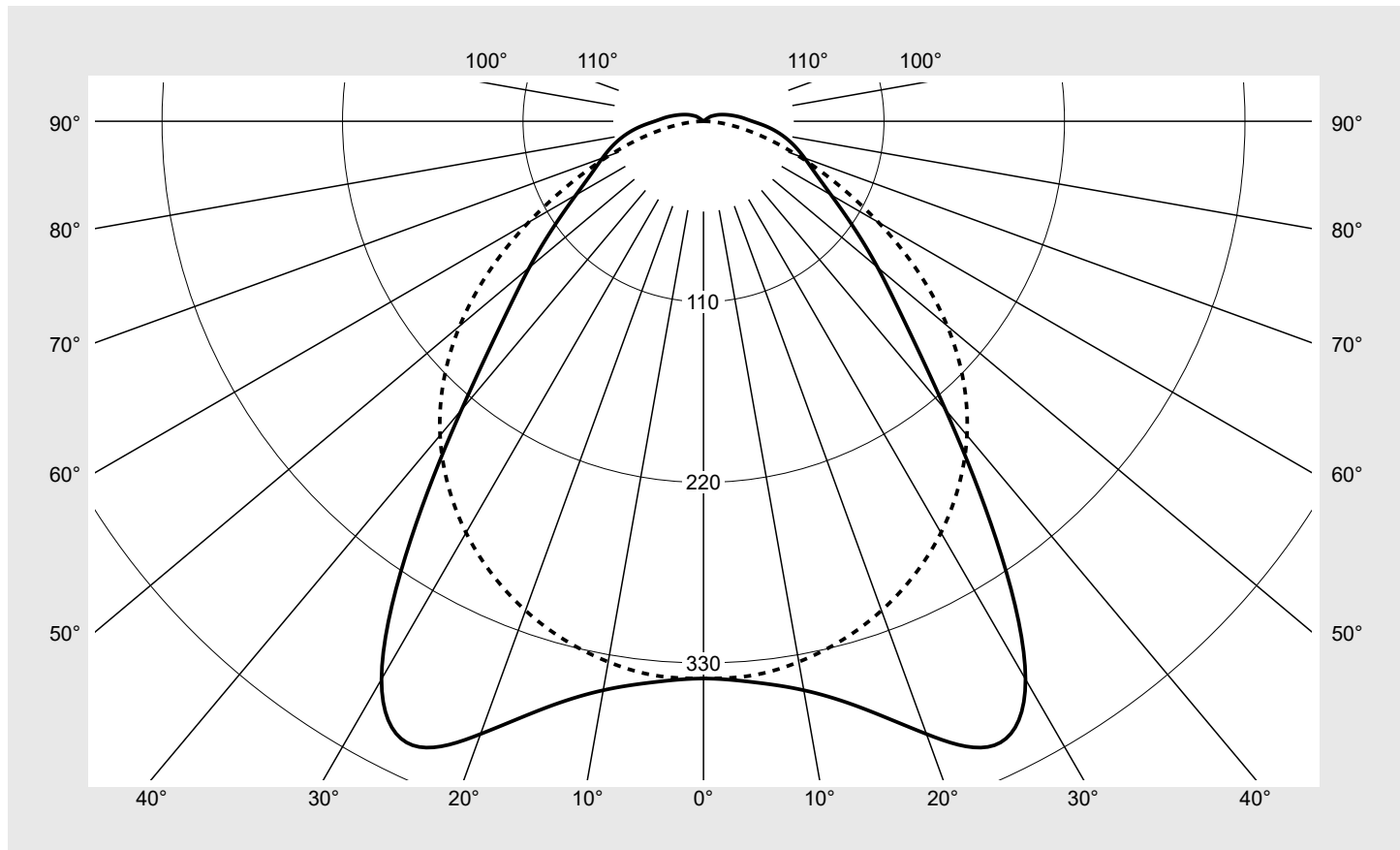
Version prismatic cover, frosted, wide distribution
Lamps LED 4000 K | CRI ≥ 80
Controlgear ECG-DALI CLO
Setting DC mode (central or group accumulator) initial emergency light level
Rated values Net luminous flux = 1920 lm
 Power consumption = 13.7 W
 Luminous efficacy = 140.1 lm/W

serial
documentation
15.03.2021

sitEco

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

Imax: 419 cd/klm



Classifications

DIN 5040 A 4 1
 CIE N1=54 N2=82 N3=95
 N4=97 N5=100

Luminaire light output ratios

η_{LB} 100.0%
 ϕ_u 96.8%
 ϕ_o 3.2%

Measurement conditions

DIN EN 13032 and DIN 5032

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| | | |
|---|---|-----------------------------------|
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| Table of values for luminous intensities | | Maximum luminous intensity |
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| 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° | 339.5 | 339.5 | 339.5 | 339.5 | 339.5 | 339.5 | 339.5 | 2.0 | 2.0 |
| 5° | 343.0 | 342.0 | 339.2 | 339.3 | 339.7 | 338.8 | 338.9 | 16.2 | 18.3 |
| 10° | 352.0 | 350.9 | 345.1 | 341.6 | 338.4 | 335.1 | 334.4 | 32.6 | 50.9 |
| 15° | 369.7 | 367.9 | 356.8 | 346.8 | 337.2 | 329.4 | 327.1 | 49.3 | 100.2 |
| 20° | 397.2 | 393.9 | 374.9 | 354.6 | 335.9 | 321.8 | 317.2 | 66.8 | 167.0 |
| 25° | 419.5 | 416.9 | 395.3 | 365.3 | 334.4 | 312.1 | 304.6 | 84.4 | 251.4 |
| 30° | 392.5 | 397.1 | 392.3 | 370.7 | 332.1 | 300.1 | 289.4 | 97.4 | 348.9 |
| 35° | 311.0 | 322.2 | 341.8 | 350.7 | 323.8 | 285.3 | 271.2 | 100.3 | 449.2 |
| 40° | 229.5 | 240.6 | 267.7 | 298.9 | 299.5 | 266.8 | 249.8 | 94.7 | 543.9 |
| 45° | 174.0 | 182.0 | 204.5 | 237.4 | 256.3 | 239.9 | 224.1 | 85.2 | 629.1 |
| 50° | 138.5 | 144.4 | 161.2 | 187.1 | 207.0 | 203.8 | 193.9 | 74.9 | 704.0 |
| 55° | 110.9 | 115.6 | 129.9 | 149.5 | 163.4 | 162.9 | 159.6 | 64.1 | 768.1 |
| 60° | 89.8 | 92.9 | 103.5 | 120.2 | 127.5 | 124.1 | 123.1 | 53.4 | 821.5 |
| 65° | 75.3 | 77.0 | 82.7 | 94.9 | 98.6 | 91.3 | 89.2 | 43.6 | 865.1 |
| 70° | 65.6 | 65.8 | 66.8 | 73.1 | 74.5 | 64.6 | 61.3 | 35.1 | 900.1 |
| 75° | 57.2 | 56.6 | 54.5 | 55.3 | 53.6 | 43.2 | 39.2 | 27.5 | 927.6 |
| 80° | 48.6 | 47.5 | 44.1 | 40.6 | 36.2 | 26.8 | 21.9 | 20.7 | 948.4 |
| 85° | 39.1 | 38.1 | 34.6 | 29.4 | 22.8 | 14.4 | 9.2 | 14.9 | 963.2 |
| 90° | 29.7 | 28.9 | 25.8 | 20.2 | 13.1 | 5.9 | 0.8 | 10.0 | 973.2 |
| 95° | 24.0 | 23.5 | 21.5 | 16.6 | 10.0 | 3.6 | 0.7 | 8.0 | 981.2 |
| 100° | 19.1 | 18.8 | 17.3 | 13.3 | 7.4 | 1.9 | 0.7 | 6.2 | 987.3 |
| 105° | 15.1 | 14.8 | 13.5 | 10.2 | 5.0 | 0.8 | 0.6 | 4.6 | 991.9 |
| 110° | 11.8 | 11.4 | 10.2 | 7.3 | 2.9 | 0.6 | 0.6 | 3.3 | 995.3 |
| 115° | 9.1 | 8.6 | 7.4 | 4.7 | 1.4 | 0.7 | 0.7 | 2.3 | 997.5 |
| 120° | 6.7 | 6.2 | 4.9 | 2.7 | 0.8 | 0.7 | 0.8 | 1.5 | 999.1 |
| 125° | 4.5 | 4.0 | 2.9 | 1.3 | 0.8 | 0.8 | 0.8 | 0.9 | 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 | 15.4 | 17.1 | 15.8 | 17.4 | 17.7 | 17.3 | 18.9 | 17.6 | 19.2 | 19.5 |
| | 3H | 16.6 | 18.1 | 17.0 | 18.4 | 18.8 | 18.3 | 19.8 | 18.7 | 20.1 | 20.5 |
| | 4H | 17.3 | 18.7 | 17.7 | 19.1 | 19.4 | 18.7 | 20.0 | 19.0 | 20.4 | 20.8 |
| | 6H | 18.1 | 19.4 | 18.5 | 19.7 | 20.1 | 18.9 | 20.2 | 19.3 | 20.5 | 20.9 |
| | 8H | 18.5 | 19.7 | 18.9 | 20.1 | 20.5 | 19.0 | 20.2 | 19.4 | 20.6 | 21.0 |
| | 12H | 18.9 | 20.0 | 19.3 | 20.4 | 20.8 | 19.1 | 20.2 | 19.5 | 20.6 | 21.0 |
| 4H | 2H | 16.3 | 17.6 | 16.7 | 18.0 | 18.4 | 17.7 | 19.1 | 18.1 | 19.5 | 19.8 |
| | 3H | 17.6 | 18.8 | 18.1 | 19.2 | 19.6 | 19.0 | 20.2 | 19.4 | 20.6 | 21.0 |
| | 4H | 18.5 | 19.5 | 18.9 | 19.9 | 20.4 | 19.5 | 20.6 | 19.9 | 21.0 | 21.4 |
| | 6H | 19.4 | 20.3 | 19.8 | 20.7 | 21.2 | 19.9 | 20.8 | 20.3 | 21.2 | 21.7 |
| | 8H | 19.8 | 20.7 | 20.3 | 21.1 | 21.6 | 20.0 | 20.8 | 20.4 | 21.3 | 21.8 |
| | 12H | 20.3 | 21.1 | 20.8 | 21.5 | 22.0 | 20.1 | 20.8 | 20.6 | 21.3 | 21.8 |
| 8H | 4H | 18.9 | 19.7 | 19.3 | 20.2 | 20.6 | 19.8 | 20.6 | 20.2 | 21.1 | 21.5 |
| | 6H | 20.0 | 20.7 | 20.4 | 21.1 | 21.6 | 20.3 | 21.0 | 20.8 | 21.5 | 22.0 |
| | 8H | 20.6 | 21.2 | 21.0 | 21.7 | 22.2 | 20.5 | 21.1 | 21.0 | 21.6 | 22.1 |
| | 12H | 21.2 | 21.7 | 21.7 | 22.2 | 22.8 | 20.7 | 21.2 | 21.2 | 21.7 | 22.3 |
| 12H | 4H | 18.9 | 19.7 | 19.4 | 20.2 | 20.6 | 19.8 | 20.6 | 20.3 | 21.1 | 21.5 |
| | 6H | 20.1 | 20.7 | 20.6 | 21.2 | 21.7 | 20.4 | 21.0 | 20.9 | 21.5 | 22.0 |
| | 8H | 20.7 | 21.3 | 21.3 | 21.8 | 22.3 | 20.7 | 21.2 | 21.2 | 21.7 | 22.3 |

| | | | | | |
|------------------------|---|--------------------------------------|-----------------|-------------------|---------------------|
| Luminance table | Max. for $\gamma \geq 65^\circ$ | Photometric dimensions in mm: | L = 1480 | H(C0) = 13 | H(C180) = 13 |
| | | | B = 78 | H(C90) = 0 | H(C270) = 0 |

| 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° | | 3507.9 | 3686.4 | 4204.2 | 4995.4 | 5565.3 | 5409.0 | 5270.4 | |
| 50° | | 2990.7 | 3135.3 | 3559.6 | 4243.9 | 4872.5 | 5015.8 | 5017.1 | |
| 55° | | 2596.6 | 2725.2 | 3123.2 | 3710.0 | 4233.5 | 4450.3 | 4626.8 | |
| 60° | | 2317.2 | 2416.3 | 2754.7 | 3319.5 | 3706.5 | 3842.4 | 4093.6 | |
| 65° | | 2184.1 | 2251.2 | 2484.8 | 2980.2 | 3292.2 | 3288.0 | 3509.4 | |
| 70° | | 2186.5 | 2218.2 | 2325.9 | 2686.1 | 2947.8 | 2810.3 | 2983.2 | |
| 75° | | 2266.0 | 2273.2 | 2275.2 | 2466.8 | 2629.2 | 2391.1 | 2520.5 | |
| 80° | | 2390.7 | 2378.0 | 2323.3 | 2332.4 | 2357.3 | 2061.0 | 2101.6 | |
| 85° | | 2568.5 | 2557.0 | 2489.3 | 2391.4 | 2231.6 | 1840.4 | 1759.8 | |

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Luminance values in cd/m²

| | | | | |
|--------------|--------------|--------------|--------------|--------------|
| γ 65° | γ 70° | γ 75° | γ 80° | γ 85° |
|--------------|--------------|--------------|--------------|--------------|

siteco

