


Photometric test report

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| Family Licross® Protected | Order number: 51TP12TNT8XW EAN: 4058352210291 | LP number 58523_18 |
|  | Version prismatic cover, frosted, wide distribution, tunable white | serial documentation 12.12.2019 |
| | Lamps LED 2700 K ... 6500 K CRI ≥ 80 Controlgear ECG-DALI Setting individual position Rated values at 2700 K Net luminous flux = 8100 lm Power consumption = 57.4 W Luminous efficacy = 141.1 lm/W |  |

Luminous intensity in cd/klm C180-0 C270-90 **Imax: 630 cd/klm**



| Classifications | |
|-----------------|-----------------------------------|
| DIN 5040 | A 5 1 |
| CIE | N1=70 N2=91 N3=97 N4=98 N5=100 |

| Luminaire light output ratios | |
|-------------------------------|--------|
| η_{LB} | 100.0% |
| ϕ_u | 98.3% |
| ϕ_o | 1.7% |

| 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 |
| | | 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° | 568.0 | 568.0 | 568.0 | 568.0 | 568.0 | 568.0 | 568.0 | 3.4 | 3.4 |
| 5° | 570.0 | 568.0 | 563.9 | 564.4 | 565.6 | 564.2 | 564.6 | 27.0 | 30.4 |
| 10° | 575.1 | 572.9 | 563.4 | 557.9 | 553.3 | 549.0 | 548.2 | 53.3 | 83.7 |
| 15° | 590.1 | 586.0 | 566.8 | 548.5 | 532.2 | 519.9 | 516.5 | 78.2 | 161.9 |
| 20° | 611.6 | 603.6 | 568.7 | 531.0 | 496.5 | 471.9 | 464.3 | 100.3 | 262.2 |
| 25° | 630.0 | 617.6 | 564.2 | 499.9 | 441.6 | 401.0 | 387.5 | 117.1 | 379.3 |
| 30° | 598.0 | 589.4 | 536.5 | 452.4 | 368.0 | 311.9 | 293.8 | 123.5 | 502.8 |
| 35° | 487.1 | 490.1 | 463.2 | 383.1 | 284.6 | 222.1 | 203.0 | 114.7 | 617.4 |
| 40° | 351.1 | 360.8 | 359.1 | 297.2 | 205.7 | 150.3 | 134.3 | 94.9 | 712.3 |
| 45° | 241.7 | 250.7 | 257.1 | 211.9 | 140.4 | 100.6 | 89.9 | 72.8 | 785.1 |
| 50° | 168.3 | 174.0 | 178.9 | 144.5 | 94.4 | 69.8 | 63.7 | 54.4 | 839.5 |
| 55° | 118.9 | 121.8 | 123.3 | 97.4 | 64.6 | 50.4 | 47.5 | 40.5 | 880.0 |
| 60° | 85.1 | 85.8 | 84.4 | 66.1 | 45.7 | 37.4 | 36.1 | 30.1 | 910.0 |
| 65° | 63.8 | 62.6 | 58.2 | 45.7 | 33.4 | 28.1 | 27.2 | 22.6 | 932.7 |
| 70° | 50.4 | 47.7 | 40.8 | 32.1 | 24.8 | 20.7 | 19.9 | 17.3 | 949.9 |
| 75° | 41.3 | 37.6 | 29.5 | 22.7 | 17.9 | 14.5 | 13.5 | 13.2 | 963.2 |
| 80° | 34.0 | 30.0 | 21.9 | 15.9 | 12.4 | 9.4 | 8.0 | 10.0 | 973.1 |
| 85° | 27.2 | 23.7 | 16.4 | 11.2 | 8.0 | 5.3 | 3.6 | 7.3 | 980.4 |
| 90° | 20.7 | 17.9 | 12.0 | 7.4 | 4.6 | 2.2 | 0.4 | 5.0 | 985.4 |
| 95° | 16.6 | 14.7 | 10.2 | 6.3 | 3.6 | 1.3 | 0.3 | 4.0 | 989.4 |
| 100° | 13.2 | 11.9 | 8.5 | 5.2 | 2.7 | 0.8 | 0.3 | 3.2 | 992.6 |
| 105° | 10.4 | 9.5 | 6.9 | 4.1 | 1.9 | 0.4 | 0.3 | 2.5 | 995.1 |
| 110° | 8.2 | 7.4 | 5.5 | 3.1 | 1.2 | 0.3 | 0.3 | 1.9 | 997.0 |
| 115° | 6.5 | 5.8 | 4.2 | 2.2 | 0.7 | 0.4 | 0.4 | 1.4 | 998.4 |
| 120° | 4.9 | 4.3 | 3.0 | 1.4 | 0.6 | 0.5 | 0.5 | 1.0 | 999.4 |
| 125° | 3.5 | 3.0 | 2.0 | 0.9 | 0.6 | 0.5 | 0.5 | 0.7 | 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 | 21.2 | 22.7 | 21.6 | 23.0 | 23.3 | 17.1 | 18.5 | 17.4 | 18.8 | 19.2 |
| | 3H | 21.8 | 23.1 | 22.2 | 23.5 | 23.8 | 17.5 | 18.8 | 17.9 | 19.1 | 19.5 |
| | 4H | 22.2 | 23.4 | 22.6 | 23.7 | 24.1 | 17.7 | 18.9 | 18.1 | 19.3 | 19.6 |
| | 6H | 22.6 | 23.7 | 23.0 | 24.0 | 24.4 | 17.8 | 19.0 | 18.2 | 19.3 | 19.7 |
| | 8H | 22.9 | 23.8 | 23.3 | 24.2 | 24.6 | 17.9 | 19.0 | 18.3 | 19.4 | 19.8 |
| | 12H | 23.1 | 24.0 | 23.6 | 24.4 | 24.8 | 18.0 | 18.9 | 18.4 | 19.3 | 19.8 |
| 4H | 2H | 21.3 | 22.5 | 21.7 | 22.9 | 23.2 | 17.8 | 18.9 | 18.1 | 19.3 | 19.7 |
| | 3H | 22.0 | 23.0 | 22.4 | 23.4 | 23.8 | 18.3 | 19.3 | 18.7 | 19.7 | 20.1 |
| | 4H | 22.5 | 23.4 | 22.9 | 23.8 | 24.2 | 18.6 | 19.5 | 19.0 | 19.9 | 20.3 |
| | 6H | 23.0 | 23.8 | 23.5 | 24.2 | 24.7 | 18.8 | 19.6 | 19.2 | 20.0 | 20.5 |
| | 8H | 23.4 | 24.0 | 23.8 | 24.5 | 25.0 | 18.9 | 19.6 | 19.3 | 20.0 | 20.5 |
| | 12H | 23.7 | 24.3 | 24.2 | 24.8 | 25.3 | 18.9 | 19.6 | 19.4 | 20.0 | 20.5 |
| 8H | 4H | 22.5 | 23.2 | 22.9 | 23.6 | 24.1 | 18.9 | 19.6 | 19.4 | 20.0 | 20.5 |
| | 6H | 23.1 | 23.7 | 23.6 | 24.2 | 24.7 | 19.2 | 19.8 | 19.7 | 20.2 | 20.8 |
| | 8H | 23.5 | 24.1 | 24.0 | 24.5 | 25.1 | 19.3 | 19.9 | 19.8 | 20.3 | 20.9 |
| | 12H | 24.0 | 24.5 | 24.6 | 25.0 | 25.5 | 19.5 | 19.9 | 20.0 | 20.4 | 20.9 |
| 12H | 4H | 22.5 | 23.1 | 23.0 | 23.6 | 24.1 | 19.0 | 19.6 | 19.5 | 20.0 | 20.5 |
| | 6H | 23.1 | 23.6 | 23.6 | 24.1 | 24.7 | 19.3 | 19.8 | 19.9 | 20.3 | 20.8 |
| | 8H | 23.6 | 24.0 | 24.1 | 24.5 | 25.1 | 19.5 | 19.9 | 20.0 | 20.4 | 21.0 |

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|------------------------|---------------------------------------------------|--------------------------------------|-----------------|-------------------|---------------------|
| 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° | 20558.5 | 21423.9 | 22297.4 | 18806.8 | 12859.3 | 9570.2 | 8924.2 | | |
| | 50° | 15328.2 | 15938.2 | 16666.9 | 13830.8 | 9372.0 | 7241.8 | 6955.3 | | |
| | 55° | 11746.5 | 12119.0 | 12510.1 | 10196.8 | 7060.7 | 5804.4 | 5813.7 | | |
| | 60° | 9266.4 | 9419.9 | 9472.7 | 7706.0 | 5602.6 | 4881.0 | 5060.7 | | |
| | 65° | 7801.8 | 7722.9 | 7382.5 | 6052.6 | 4704.0 | 4263.0 | 4511.8 | | |
| | 70° | 7088.0 | 6782.5 | 5997.8 | 4975.0 | 4133.9 | 3796.1 | 4077.4 | | |
| | 75° | 6897.5 | 6367.8 | 5198.5 | 4276.0 | 3711.5 | 3383.8 | 3661.0 | | |
| | 80° | 7057.7 | 6340.1 | 4876.4 | 3860.6 | 3389.0 | 3050.7 | 3239.8 | | |
| | 85° | 7528.0 | 6707.6 | 4981.5 | 3832.1 | 3293.7 | 2836.2 | 2915.2 | | |

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Luminance values in cd/m²

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

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