

## Photometric test report

**Family**  
**Licross® 11 Recessed**

**Order number: 51TL12CN46XM**  
**EAN: 4058352918395**

**LP number**  
**58689\_142**



**Version** cover frosted, wide distribution, high visual comfort  
**Lamps** LED 4000 K | CRI ≥ 80  
**Controlgear** ECG-Multilumen CLOi  
**Rated values** Net luminous flux = 6020 lm  
Power consumption = 30.1 W  
Luminous efficacy = 200 lm/W

**serial**  
**documentation**  
**12.10.2023**

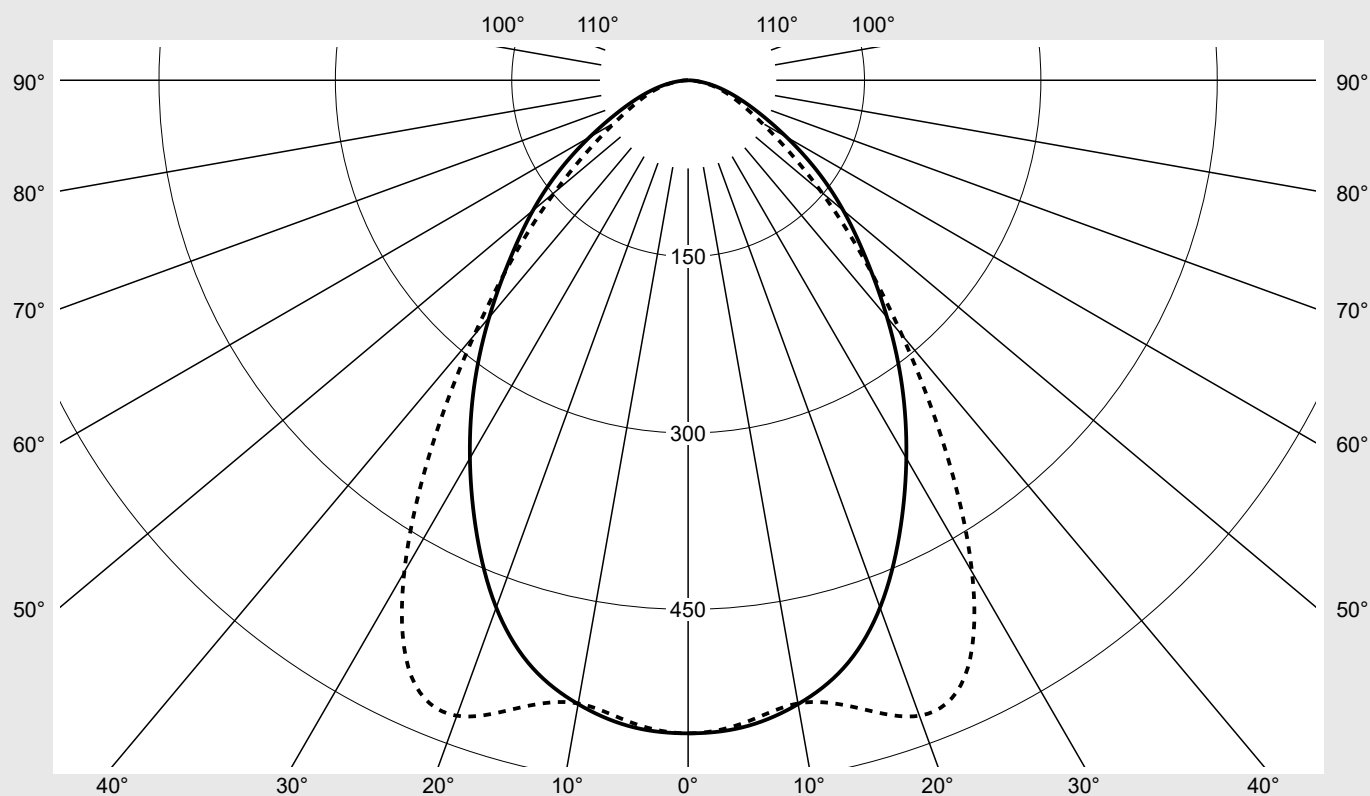
**siteco**

**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

$\eta_{LB}$  100.0%  
 $\phi_u$  100.0%  
 $\phi_o$  0.0%

### Measurement conditions

DIN EN 13032 and DIN 5032

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|                                          |                                                  |                            |
|------------------------------------------|--------------------------------------------------|----------------------------|
| Family<br>Licross® 11 Recessed           | Order number: 51TL12CN46XM<br>EAN: 4058352918395 | LP number<br>58689_142     |
| Table of values for luminous intensities |                                                  | Maximum luminous intensity |
|                                          |                                                  | siteco                     |

| C-<br>planes | 0°<br>180°                   | 15°<br>165°<br>195°<br>345° | 30°<br>150°<br>210°<br>330° | 45°<br>135°<br>225°<br>315° | 60°<br>120°<br>240°<br>300° | 75°<br>105°<br>255°<br>285° | 90°<br>270° | Phi-zone                | Total<br>Phi-zone |
|--------------|------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-------------|-------------------------|-------------------|
| γ            | 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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|                                |     |                     |                                                  |      |      |      |                    |      |      |                        |      |        |  |
|--------------------------------|-----|---------------------|--------------------------------------------------|------|------|------|--------------------|------|------|------------------------|------|--------|--|
| Family<br>Licross® 11 Recessed |     |                     | Order number: 51TL12CN46XM<br>EAN: 4058352918395 |      |      |      |                    |      |      | LP number<br>58689_142 |      |        |  |
| 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  | 21.1                | 22.6                                             | 21.5 | 22.9 | 23.2 | 20.6               | 22.1 | 20.9 | 22.4                   | 22.7 |        |  |
|                                | 3H  | 21.8                | 23.2                                             | 22.2 | 23.5 | 23.9 | 21.2               | 22.5 | 21.6 | 22.8                   | 23.2 |        |  |
|                                | 4H  | 22.1                | 23.4                                             | 22.5 | 23.7 | 24.1 | 21.4               | 22.7 | 21.8 | 23.0                   | 23.4 |        |  |
|                                | 6H  | 22.4                | 23.5                                             | 22.8 | 23.9 | 24.3 | 21.6               | 22.8 | 22.1 | 23.1                   | 23.5 |        |  |
|                                | 8H  | 22.5                | 23.5                                             | 22.9 | 23.9 | 24.3 | 21.8               | 22.8 | 22.2 | 23.2                   | 23.6 |        |  |
|                                | 12H | 22.5                | 23.5                                             | 23.0 | 23.9 | 24.3 | 21.8               | 22.8 | 22.2 | 23.2                   | 23.6 |        |  |
| 4H                             | 2H  | 21.4                | 22.7                                             | 21.8 | 23.0 | 23.4 | 21.0               | 22.3 | 21.4 | 22.6                   | 23.0 |        |  |
|                                | 3H  | 22.3                | 23.3                                             | 22.7 | 23.7 | 24.1 | 21.8               | 22.8 | 22.2 | 23.2                   | 23.6 |        |  |
|                                | 4H  | 22.6                | 23.5                                             | 23.1 | 23.9 | 24.4 | 22.1               | 23.1 | 22.6 | 23.5                   | 23.9 |        |  |
|                                | 6H  | 22.9                | 23.7                                             | 23.4 | 24.1 | 24.6 | 22.4               | 23.2 | 22.9 | 23.6                   | 24.1 |        |  |
|                                | 8H  | 23.0                | 23.7                                             | 23.5 | 24.2 | 24.6 | 22.5               | 23.2 | 23.0 | 23.7                   | 24.2 |        |  |
|                                | 12H | 23.1                | 23.7                                             | 23.6 | 24.2 | 24.7 | 22.6               | 23.2 | 23.1 | 23.7                   | 24.2 |        |  |
| 8H                             | 4H  | 22.7                | 23.4                                             | 23.2 | 23.9 | 24.4 | 22.3               | 23.0 | 22.7 | 23.4                   | 23.9 |        |  |
|                                | 6H  | 23.0                | 23.6                                             | 23.5 | 24.1 | 24.6 | 22.6               | 23.2 | 23.1 | 23.7                   | 24.2 |        |  |
|                                | 8H  | 23.2                | 23.7                                             | 23.7 | 24.2 | 24.7 | 22.7               | 23.3 | 23.2 | 23.8                   | 24.3 |        |  |
|                                | 12H | 23.3                | 23.7                                             | 23.8 | 24.2 | 24.7 | 22.8               | 23.3 | 23.4 | 23.8                   | 24.3 |        |  |
| 12H                            | 4H  | 22.7                | 23.3                                             | 23.2 | 23.8 | 24.3 | 22.3               | 22.9 | 22.8 | 23.4                   | 23.9 |        |  |
|                                | 6H  | 23.1                | 23.6                                             | 23.6 | 24.0 | 24.6 | 22.6               | 23.1 | 23.1 | 23.6                   | 24.1 |        |  |
|                                | 8H  | 23.2                | 23.6                                             | 23.7 | 24.1 | 24.7 | 22.8               | 23.2 | 23.3 | 23.7                   | 24.3 |        |  |

| Luminance table |                    | Max. for $\gamma \geq 65^\circ$ |                             | Photometric dimensions in mm: |                             | L = 1500<br>B = 58          |             |
|-----------------|--------------------|---------------------------------|-----------------------------|-------------------------------|-----------------------------|-----------------------------|-------------|
| C-planes        | 0°<br>180°         | 15°<br>165°<br>195°<br>345°     | 30°<br>150°<br>210°<br>330° | 45°<br>135°<br>225°<br>315°   | 60°<br>120°<br>240°<br>300° | 75°<br>105°<br>255°<br>285° | 90°<br>270° |
| $\gamma$        | Luminance in cd/m² |                                 |                             |                               |                             |                             |             |
| 45°             | 20912.5            | 19961.7                         | 22513.0                     | 22552.4                       | 19846.9                     | 19588.5                     | 20259.5     |
| 50°             | 18544.7            | 17249.9                         | 19077.5                     | 19014.4                       | 16105.1                     | 15426.2                     | 15931.5     |
| 55°             | 16084.4            | 14664.5                         | 15243.9                     | 15571.3                       | 13484.2                     | 12188.1                     | 12426.0     |
| 60°             | 13378.7            | 12161.4                         | 11794.9                     | 12479.9                       | 11504.7                     | 9827.0                      | 9972.6      |
| 65°             | 11081.8            | 9992.1                          | 9222.4                      | 9998.0                        | 9909.8                      | 8324.2                      | 8524.1      |
| 70°             | 9485.5             | 8445.4                          | 7386.7                      | 8137.5                        | 8519.4                      | 7368.9                      | 7709.4      |
| 75°             | 8270.2             | 7130.0                          | 6034.1                      | 6671.2                        | 7238.8                      | 6594.7                      | 7105.4      |
| 80°             | 7081.0             | 5882.8                          | 4772.2                      | 5239.6                        | 5840.1                      | 5634.1                      | 6218.7      |
| 85°             | 5234.4             | 4288.0                          | 3487.7                      | 3787.8                        | 4189.6                      | 4261.8                      | 4663.5      |

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Family  
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Order number: 51TL12CN46XM  
EAN: 4058352918395

LP number  
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Luminance values in cd/m²

γ 65°

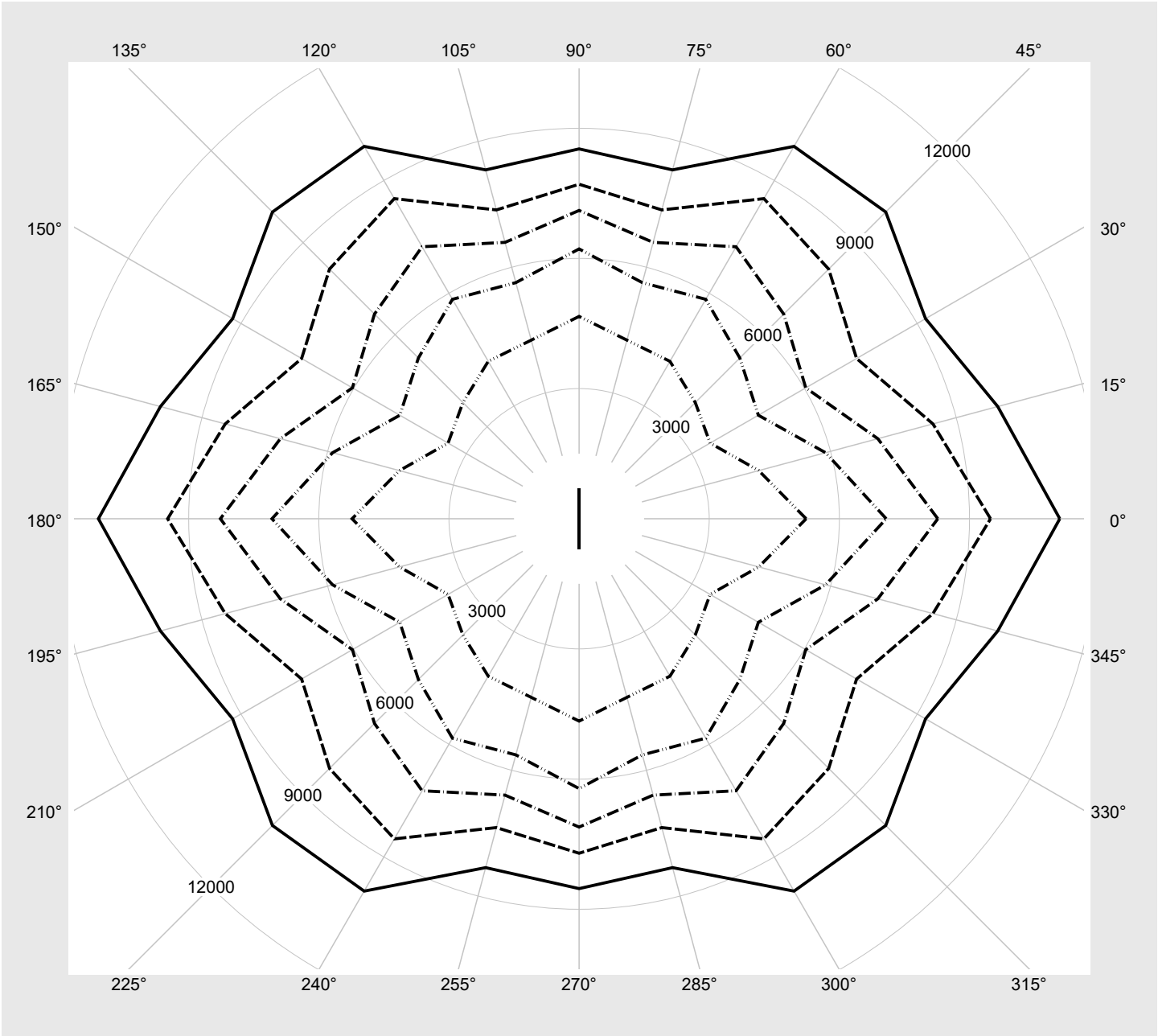
γ 70°

γ 75°

γ 80°

γ 85°

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|                                |                                                  |                                 |
|--------------------------------|--------------------------------------------------|---------------------------------|
| Family<br>Licross® 11 Recessed | Order number: 51TL12CN46XM<br>EAN: 4058352918395 | LP number<br>58689_142          |
| Multilumen Table               |                                                  | environmental temperature: 25°C |
|                                |                                                  | siteco                          |

| DIP-Step | Switch Setting |   |   | Luminous flux<br>[lm] | Power consumption<br>[W] | Power consumption<br>[W] | Power consumption<br>[W] |
|----------|----------------|---|---|-----------------------|--------------------------|--------------------------|--------------------------|
|          | 1              | 2 | 3 |                       |                          | end of lifetime          | average                  |
| 1        | A              | C | E | 6020                  | 30.1                     | 33.1                     | 31.6                     |
| 2        | A              | C | F | 5770                  | 28.9                     | 31.8                     | 30.4                     |
| 3        | A              | D | E | 5610                  | 28.0                     | 31.0                     | 29.5                     |
| 4        | A              | D | F | 5360                  | 26.8                     | 29.7                     | 28.2                     |
| 5        | B              | C | E | 5110                  | 25.6                     | 28.4                     | 27.0                     |
| 6        | B              | C | F | 4850                  | 24.3                     | 26.8                     | 25.6                     |
| 7        | B              | D | E | 4690                  | 23.5                     | 26.0                     | 24.8                     |
| 8        | B              | D | F | 4440                  | 22.3                     | 24.7                     | 23.5                     |