

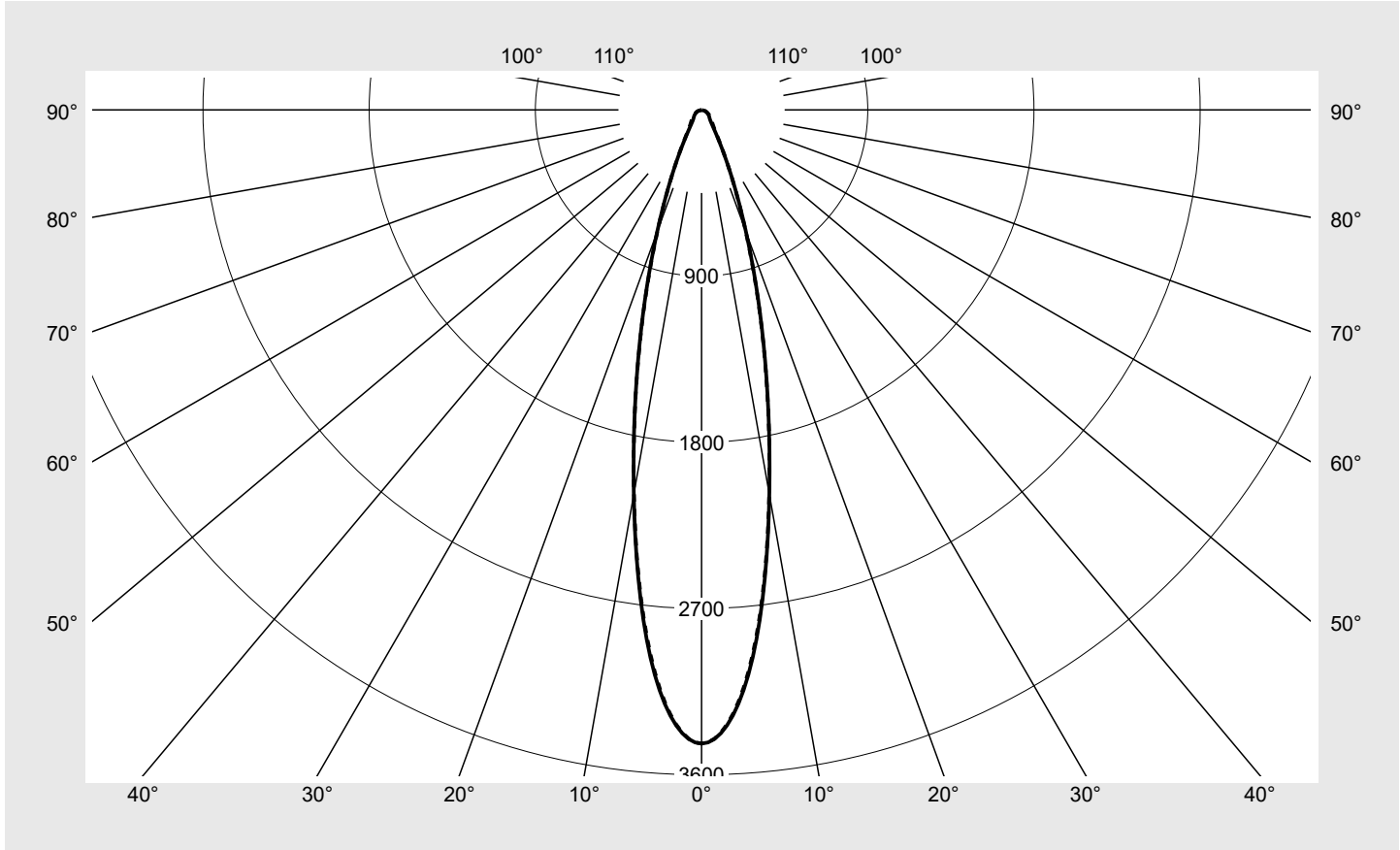


# Photometric test report

|                                                                                  |                                                                                                                                                                                                                                                  |                                                                                     |
|----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>Family</b><br><b>Licross® 21 Recessed</b>                                     | <b>Order number: 52TE11MN4FXS</b><br><b>EAN: 4058352889480</b>                                                                                                                                                                                   | <b>LP number</b><br><b>58784_292</b>                                                |
|  | <b>Version</b> cover frosted, narrow distribution<br><b>Lamps</b> LED 4000 K   CRI ≥ 80<br><b>Controlgear</b> ECG Multilumen<br><b>Rated values</b> Net luminous flux = 15070 lm<br>Power consumption = 83.1 W<br>Luminous efficacy = 181.4 lm/W | <b>serial documentation</b><br><b>24.08.2023</b>                                    |
|                                                                                  |                                                                                                                                                                                                                                                  |  |

**Luminous intensity in cd/klm** C180-0 C270-90 **Imax: 3431 cd/klm**



| Classifications |                                    |
|-----------------|------------------------------------|
| DIN 5040        | A 7 0                              |
| CIE             | N1=87 N2=95 N3=99<br>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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|                                              |                                                                |                                      |
|----------------------------------------------|----------------------------------------------------------------|--------------------------------------|
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|----------------------------------------------|----------------------------------------------------------------|--------------------------------------|

**sitEco**

|                                                 |                                   |
|-------------------------------------------------|-----------------------------------|
| <b>Table of values for luminous intensities</b> | <b>Maximum luminous intensity</b> |
|-------------------------------------------------|-----------------------------------|

| C-planes | 0°<br>180°                   | 15°                  | 30°                  | 45°                  | 60°                  | 75°                  | 90°<br>270° | Phi-zone                | Total<br>Phi-zone |
|----------|------------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|-------------|-------------------------|-------------------|
|          |                              | 165°<br>195°<br>345° | 150°<br>210°<br>330° | 135°<br>225°<br>315° | 120°<br>240°<br>300° | 105°<br>255°<br>285° |             |                         |                   |
| γ        | Luminous intensity in cd/klm |                      |                      |                      |                      |                      |             | Luminous flux in lm/klm |                   |
| 0°       | 3431.3                       | 3431.3               | 3431.3               | 3431.3               | 3431.3               | 3431.3               | 3431.3      | 20.5                    | 20.5              |
| 5°       | 3030.0                       | 3009.9               | 2995.2               | 3008.4               | 3015.8               | 3015.7               | 3017.5      | 143.9                   | 164.4             |
| 10°      | 2113.5                       | 2098.5               | 2092.1               | 2104.8               | 2111.9               | 2109.7               | 2109.2      | 200.3                   | 364.7             |
| 15°      | 1287.2                       | 1281.7               | 1283.9               | 1294.7               | 1294.7               | 1286.2               | 1283.2      | 182.7                   | 547.4             |
| 20°      | 703.4                        | 705.4                | 717.6                | 726.5                | 719.3                | 702.5                | 697.3       | 133.5                   | 680.9             |
| 25°      | 354.0                        | 358.8                | 370.9                | 376.0                | 367.5                | 355.6                | 354.0       | 84.3                    | 765.2             |
| 30°      | 176.2                        | 179.2                | 185.6                | 185.7                | 179.6                | 178.8                | 183.6       | 49.7                    | 814.9             |
| 35°      | 102.4                        | 102.6                | 103.9                | 102.5                | 99.6                 | 107.7                | 116.7       | 32.8                    | 847.7             |
| 40°      | 73.1                         | 72.4                 | 71.7                 | 70.6                 | 70.7                 | 80.9                 | 90.2        | 26.3                    | 874.0             |
| 45°      | 60.7                         | 58.7                 | 57.0                 | 56.9                 | 57.9                 | 66.7                 | 75.5        | 23.6                    | 897.6             |
| 50°      | 52.7                         | 51.5                 | 51.2                 | 50.6                 | 50.0                 | 56.0                 | 63.2        | 22.2                    | 919.8             |
| 55°      | 44.8                         | 43.4                 | 45.4                 | 45.0                 | 43.0                 | 46.3                 | 51.7        | 20.3                    | 940.1             |
| 60°      | 37.3                         | 36.1                 | 38.2                 | 39.8                 | 37.2                 | 38.0                 | 41.8        | 18.1                    | 958.2             |
| 65°      | 29.8                         | 28.9                 | 31.0                 | 34.0                 | 31.7                 | 30.7                 | 33.0        | 15.5                    | 973.8             |
| 70°      | 21.9                         | 21.7                 | 22.9                 | 26.9                 | 25.3                 | 23.3                 | 24.3        | 12.3                    | 986.1             |
| 75°      | 12.2                         | 12.7                 | 14.5                 | 18.5                 | 17.7                 | 15.7                 | 16.0        | 8.2                     | 994.3             |
| 80°      | 5.5                          | 5.6                  | 6.4                  | 9.0                  | 10.0                 | 8.8                  | 8.6         | 4.2                     | 998.5             |
| 85°      | 2.2                          | 2.1                  | 2.4                  | 3.2                  | 3.5                  | 3.4                  | 3.0         | 1.6                     | 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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|                                       |                                                                |                               |
|---------------------------------------|----------------------------------------------------------------|-------------------------------|
| <b>Family</b><br>Licross® 21 Recessed | <b>Order number: 52TE11MN4FXS</b><br><b>EAN: 4058352889480</b> | <b>LP number</b><br>58784_292 |
|---------------------------------------|----------------------------------------------------------------|-------------------------------|

|                  |                      |               |
|------------------|----------------------|---------------|
| <b>UGR-Table</b> | <b>Standard room</b> | <b>siteco</b> |
|------------------|----------------------|---------------|

|                              |                     |      |      |      |      |                    |      |      |      |      |      |
|------------------------------|---------------------|------|------|------|------|--------------------|------|------|------|------|------|
| 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                  | 17.4 | 18.6 | 17.8 | 18.9 | 19.2               | 17.8 | 18.9 | 18.2 | 19.2 | 19.6 |
|                              | 3H                  | 18.8 | 19.8 | 19.2 | 20.1 | 20.5               | 19.2 | 20.2 | 19.6 | 20.5 | 20.9 |
|                              | 4H                  | 19.1 | 20.1 | 19.5 | 20.4 | 20.8               | 19.7 | 20.6 | 20.1 | 21.0 | 21.4 |
|                              | 6H                  | 19.3 | 20.1 | 19.7 | 20.5 | 20.9               | 20.1 | 20.9 | 20.5 | 21.3 | 21.7 |
|                              | 8H                  | 19.4 | 20.1 | 19.8 | 20.5 | 20.9               | 20.2 | 20.9 | 20.7 | 21.3 | 21.7 |
|                              | 12H                 | 19.4 | 20.1 | 19.8 | 20.5 | 20.9               | 20.2 | 20.9 | 20.7 | 21.3 | 21.7 |
| 4H                           | 2H                  | 18.2 | 19.1 | 18.6 | 19.4 | 19.8               | 18.5 | 19.4 | 18.9 | 19.7 | 20.1 |
|                              | 3H                  | 19.6 | 20.4 | 20.1 | 20.8 | 21.2               | 20.1 | 20.8 | 20.5 | 21.2 | 21.6 |
|                              | 4H                  | 20.1 | 20.8 | 20.5 | 21.2 | 21.6               | 20.7 | 21.4 | 21.1 | 21.8 | 22.2 |
|                              | 6H                  | 20.3 | 20.9 | 20.7 | 21.3 | 21.8               | 21.1 | 21.7 | 21.5 | 22.1 | 22.6 |
|                              | 8H                  | 20.3 | 20.8 | 20.8 | 21.3 | 21.8               | 21.2 | 21.7 | 21.7 | 22.2 | 22.7 |
|                              | 12H                 | 20.3 | 20.8 | 20.8 | 21.2 | 21.7               | 21.3 | 21.7 | 21.8 | 22.2 | 22.7 |
| 8H                           | 4H                  | 20.4 | 20.9 | 20.9 | 21.4 | 21.9               | 21.0 | 21.5 | 21.4 | 21.9 | 22.4 |
|                              | 6H                  | 20.7 | 21.1 | 21.2 | 21.6 | 22.1               | 21.5 | 21.9 | 22.0 | 22.4 | 22.9 |
|                              | 8H                  | 20.7 | 21.1 | 21.2 | 21.6 | 22.1               | 21.6 | 22.0 | 22.1 | 22.5 | 23.0 |
|                              | 12H                 | 20.7 | 21.0 | 21.2 | 21.5 | 22.1               | 21.7 | 22.0 | 22.2 | 22.5 | 23.1 |
| 12H                          | 4H                  | 20.4 | 20.9 | 20.9 | 21.3 | 21.8               | 20.9 | 21.4 | 21.4 | 21.8 | 22.3 |
|                              | 6H                  | 20.7 | 21.1 | 21.2 | 21.6 | 22.1               | 21.5 | 21.8 | 22.0 | 22.3 | 22.9 |
|                              | 8H                  | 20.8 | 21.1 | 21.3 | 21.6 | 22.1               | 21.7 | 22.0 | 22.2 | 22.5 | 23.0 |

|                        |                                                   |                                      |                 |
|------------------------|---------------------------------------------------|--------------------------------------|-----------------|
| <b>Luminance table</b> | <b>Max. for <math>\gamma \geq 65^\circ</math></b> | <b>Photometric dimensions in mm:</b> | <b>L = 1500</b> |
|                        |                                                   |                                      | <b>B = 58</b>   |

| C-planes | $\gamma$ | Luminance in cd/m <sup>2</sup> |                             |                             |                             |                             |                             |             |  |
|----------|----------|--------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-------------|--|
|          |          | 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° |  |
| 45°      |          | 14873.2                        | 14385.2                     | 13971.5                     | 13934.3                     | 14182.4                     | 16333.2                     | 18504.6     |  |
| 50°      |          | 14214.0                        | 13885.5                     | 13809.8                     | 13643.0                     | 13465.4                     | 15094.4                     | 17034.9     |  |
| 55°      |          | 13542.8                        | 13119.1                     | 13719.1                     | 13595.9                     | 12992.5                     | 13994.5                     | 15606.9     |  |
| 60°      |          | 12921.1                        | 12499.1                     | 13222.1                     | 13781.9                     | 12899.2                     | 13164.9                     | 14494.6     |  |
| 65°      |          | 12207.1                        | 11859.2                     | 12702.7                     | 13917.1                     | 13010.9                     | 12596.1                     | 13522.0     |  |
| 70°      |          | 11075.2                        | 10980.5                     | 11591.8                     | 13601.4                     | 12814.4                     | 11799.4                     | 12325.6     |  |
| 75°      |          | 8190.5                         | 8486.3                      | 9679.6                      | 12357.3                     | 11828.6                     | 10477.3                     | 10685.5     |  |
| 80°      |          | 5527.3                         | 5578.2                      | 6415.1                      | 9003.7                      | 9933.4                      | 8741.3                      | 8579.7      |  |
| 85°      |          | 4348.6                         | 4265.1                      | 4708.3                      | 6302.2                      | 6906.4                      | 6703.7                      | 5912.7      |  |

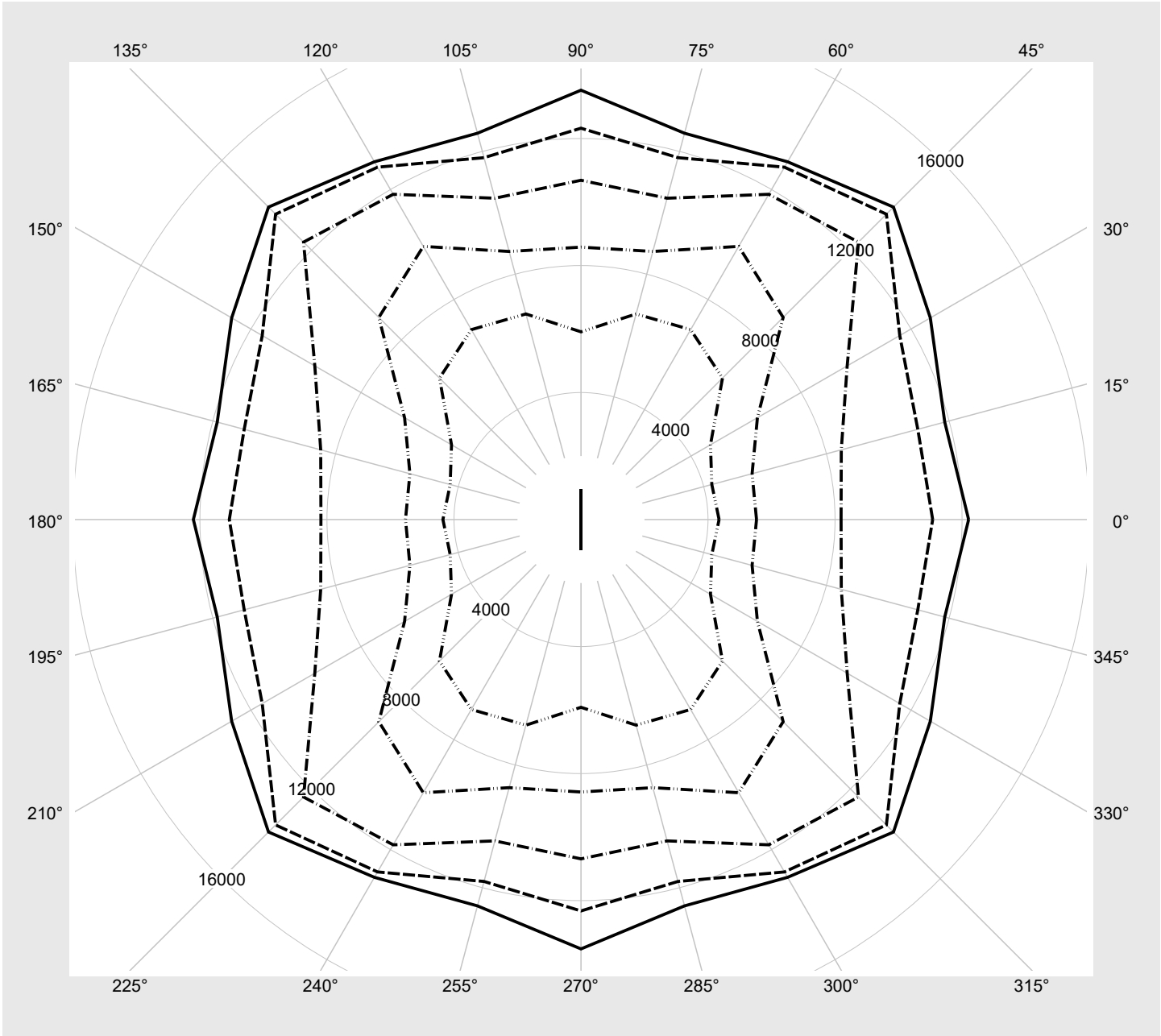
**Photometric test report**

|                                              |                                                                |                                      |
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**Luminance values in cd/m<sup>2</sup>**

$\gamma$  65°   
   $\gamma$  70°   
   $\gamma$  75°   
   $\gamma$  80°   
   $\gamma$  85°

**siteco**



## Photometric test report

Family  
Licross® 21 Recessed

Order number: 52TE11MN4FXS  
EAN: 4058352889480

LP number  
58784\_292

### Multilumen Table

environmental temperature: 25°C

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| DIP-Step | Switch Setting |   |   | Luminous flux<br>[lm] | Power consumption<br>[W] |
|----------|----------------|---|---|-----------------------|--------------------------|
|          | 1              | 2 | 3 |                       |                          |
| 1        | A              | C | E | 15070                 | 83.1                     |
| 2        | A              | C | F | 14146                 | 77.5                     |
| 3        | A              | D | E | 13075                 | 71.1                     |
| 4        | A              | D | F | 12130                 | 65.4                     |
| 5        | B              | C | E | 11100                 | 59.4                     |
| 6        | B              | C | F | 10124                 | 53.9                     |
| 7        | B              | D | E | 9063                  | 47.9                     |
| 8        | B              | D | F | 8055                  | 42.4                     |