

## Lichttechnischer Prüfbefund

**Familie**  
**Licross® 21 Recessed**

**Bestell-Nr.: 52TL12DN4FXM3S4**  
**EAN: 4058352908198**

**LP-Nummer**  
**59446\_72**



**Ausführung** Abdeckung satiniert, breit strahlend, hoher Sehkomfort

**Bestückung** LED 4000 K | CRI ≥ 80

**Betriebsgerät** EVG-DALI

**Einstellung** Notlichtbetrieb: 3 h

**Bemessungswerte** Nettolichtstrom = 930 lm  
Systemleistung = 7.5 W  
Lichtausbeute = 124 lm/W

**Seriendokumentation**  
17.08.2023

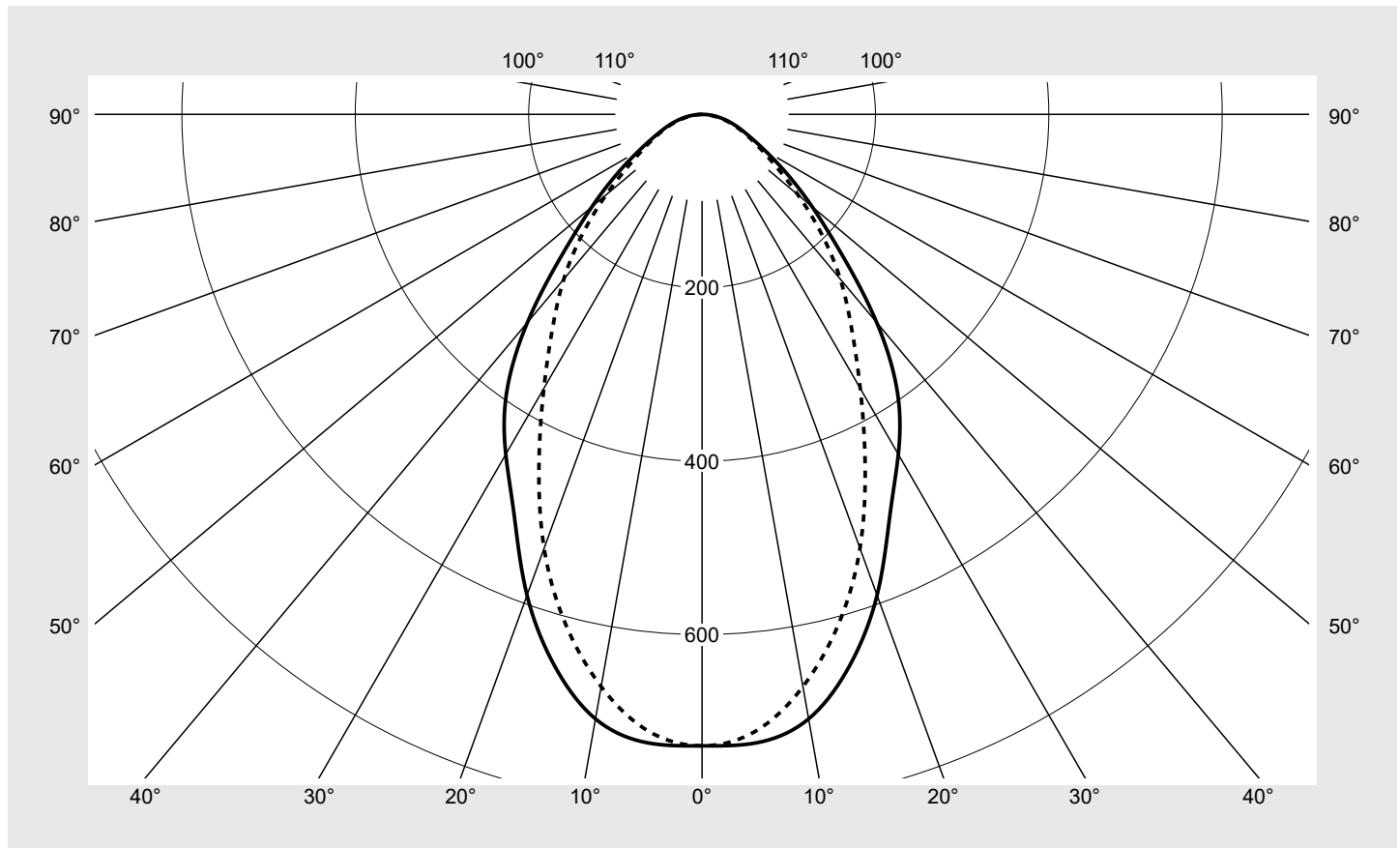
sitEco

Lichtstärke in cd/klm

C180-0

C270-90

Imax: 728 cd/klm



**Klassifizierungen**

DIN 5040 A 5 0  
CIE N1=69 N2=91 N3=98  
N4=100 N5=100

**Leuchtenbetriebswirkungsgrade**

$\eta_{LB}$  100,0%  
 $\phi_u$  100,0%  
 $\phi_o$  0,0%

**Messbedingungen**

DIN EN 13032 und DIN 5032

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|   |  |                                     |
|---|--|-------------------------------------|
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|---|--|-------------------------------------|

|  |                             |               |
|--|-----------------------------|---------------|
| <b>Wertetabelle Lichtstärkemessung</b> | <b>Maximale Lichtstärke</b> | <b>sITeCO</b> |
|--|-----------------------------|---------------|

| C-<br>Ebenen          | 0°<br>180° | 15°                  | 30°                  | 45°                  | 60°                  | 75°                  | 90°<br>270° | Phi-Zone | Summe<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° |             |          |                   |
| Lichtstärke in cd/klm |            |                      |                      |                      |                      |                      |             |          |                   |
| Lichtstrom 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-Tabelle     |     | Standardraum                        |      |      |      |      |                                       |      |      |      |      |
|-----------------|-----|-------------------------------------|------|------|------|------|---------------------------------------|------|------|------|------|
| Raumabmessungen |     | Blickrichtung quer zur Leuchte (C0) |      |      |      |      | Blickrichtung längs zur Leuchte (C90) |      |      |      |      |
| x               | y   |                                     |      |      |      |      |                                       |      |      |      |      |
| 2H              | 2H  | 14,1                                | 15,5 | 14,4 | 15,8 | 16,2 | 13,7                                  | 15,1 | 14,0 | 15,4 | 15,8 |
|                 | 3H  | 14,8                                | 16,0 | 15,1 | 16,4 | 16,7 | 14,5                                  | 15,8 | 14,9 | 16,1 | 16,5 |
|                 | 4H  | 15,1                                | 16,3 | 15,5 | 16,6 | 17,0 | 14,8                                  | 16,0 | 15,2 | 16,4 | 16,8 |
|                 | 6H  | 15,4                                | 16,5 | 15,8 | 16,9 | 17,3 | 15,1                                  | 16,2 | 15,5 | 16,6 | 17,0 |
|                 | 8H  | 15,6                                | 16,6 | 16,0 | 17,0 | 17,4 | 15,3                                  | 16,3 | 15,7 | 16,6 | 17,0 |
|                 | 12H | 15,7                                | 16,6 | 16,2 | 17,0 | 17,4 | 15,3                                  | 16,2 | 15,7 | 16,6 | 17,0 |
| 4H              | 2H  | 14,4                                | 15,6 | 14,7 | 15,9 | 16,3 | 14,1                                  | 15,3 | 14,5 | 15,6 | 16,0 |
|                 | 3H  | 15,1                                | 16,1 | 15,5 | 16,5 | 16,9 | 15,0                                  | 16,0 | 15,5 | 16,4 | 16,8 |
|                 | 4H  | 15,5                                | 16,4 | 15,9 | 16,8 | 17,2 | 15,5                                  | 16,4 | 15,9 | 16,8 | 17,2 |
|                 | 6H  | 15,9                                | 16,7 | 16,4 | 17,1 | 17,6 | 15,9                                  | 16,6 | 16,3 | 17,1 | 17,5 |
|                 | 8H  | 16,1                                | 16,8 | 16,6 | 17,2 | 17,7 | 16,0                                  | 16,7 | 16,5 | 17,1 | 17,6 |
|                 | 12H | 16,3                                | 16,8 | 16,7 | 17,3 | 17,8 | 16,1                                  | 16,7 | 16,6 | 17,1 | 17,6 |
| 8H              | 4H  | 15,6                                | 16,3 | 16,1 | 16,8 | 17,2 | 15,6                                  | 16,3 | 16,1 | 16,8 | 17,2 |
|                 | 6H  | 16,0                                | 16,6 | 16,5 | 17,1 | 17,6 | 16,1                                  | 16,6 | 16,6 | 17,1 | 17,6 |
|                 | 8H  | 16,2                                | 16,7 | 16,7 | 17,2 | 17,8 | 16,2                                  | 16,7 | 16,7 | 17,2 | 17,7 |
|                 | 12H | 16,5                                | 16,9 | 17,0 | 17,4 | 17,9 | 16,3                                  | 16,8 | 16,9 | 17,3 | 17,8 |
| 12H             | 4H  | 15,6                                | 16,2 | 16,1 | 16,7 | 17,2 | 15,6                                  | 16,2 | 16,1 | 16,7 | 17,2 |
|                 | 6H  | 16,1                                | 16,5 | 16,6 | 17,0 | 17,6 | 16,1                                  | 16,6 | 16,6 | 17,0 | 17,6 |
|                 | 8H  | 16,3                                | 16,7 | 16,8 | 17,2 | 17,7 | 16,3                                  | 16,7 | 16,8 | 17,2 | 17,7 |

## Leuchtdichten-Tabelle Max. für $\gamma \geq 65^\circ$

Lichttechnische Abmessungen in mm: **L = 1500**  
**B = 58**

| C-Ebenen | $\gamma$ | Leuchtdichte 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°      |          | 3435.4                            | 3290.9                      | 3152.0                      | 2893.9                      | 2663.9                      | 2829.3                      | 2945.9      |  |
| 50°      |          | 2757.9                            | 2515.9                      | 2383.0                      | 2457.2                      | 2310.6                      | 2367.8                      | 2402.3      |  |
| 55°      |          | 2231.4                            | 1961.4                      | 1746.6                      | 2029.8                      | 2039.6                      | 1941.8                      | 1923.6      |  |
| 60°      |          | 1803.2                            | 1560.1                      | 1346.4                      | 1678.0                      | 1790.9                      | 1612.1                      | 1627.6      |  |
| 65°      |          | 1532.2                            | 1302.6                      | 1099.6                      | 1399.0                      | 1556.1                      | 1404.9                      | 1439.7      |  |
| 70°      |          | 1399.2                            | 1154.2                      | 920.7                       | 1167.1                      | 1267.2                      | 1248.6                      | 1313.7      |  |
| 75°      |          | 1317.4                            | 1048.1                      | 793.5                       | 975.3                       | 1139.6                      | 1115.6                      | 1210.5      |  |
| 80°      |          | 1245.2                            | 956.2                       | 684.4                       | 787.4                       | 940.0                       | 959.3                       | 1059.0      |  |
| 85°      |          | 1154.5                            | 882.8                       | 595.7                       | 617.5                       | 712.7                       | 733.7                       | 772.6       |  |

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**Leuchtdichten in cd/m<sup>2</sup>**

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

**siteco**

