

## Lichttechnischer Prüfbefund

**Familie**  
**Licross® 11 Protected**

**Bestell-Nr.: 51TD12DN4FXM3S**  
**EAN: 4058352934708**

**LP-Nummer**  
**58523\_211**



**Ausführung** Prismenabdeckung, satiniert, breit strahlend  
**Bestückung** LED 4000 K | CRI ≥ 80  
**Betriebsgerät** EVG-DALI  
**Einstellung** Notlichtbetrieb: 3 h  
**Bemessungswerte** Nettolichtstrom = 970 lm  
 Systemleistung = 7.4 W  
 Lichtausbeute = 131.1 lm/W

**Seriendokumentation**  
29.09.2023

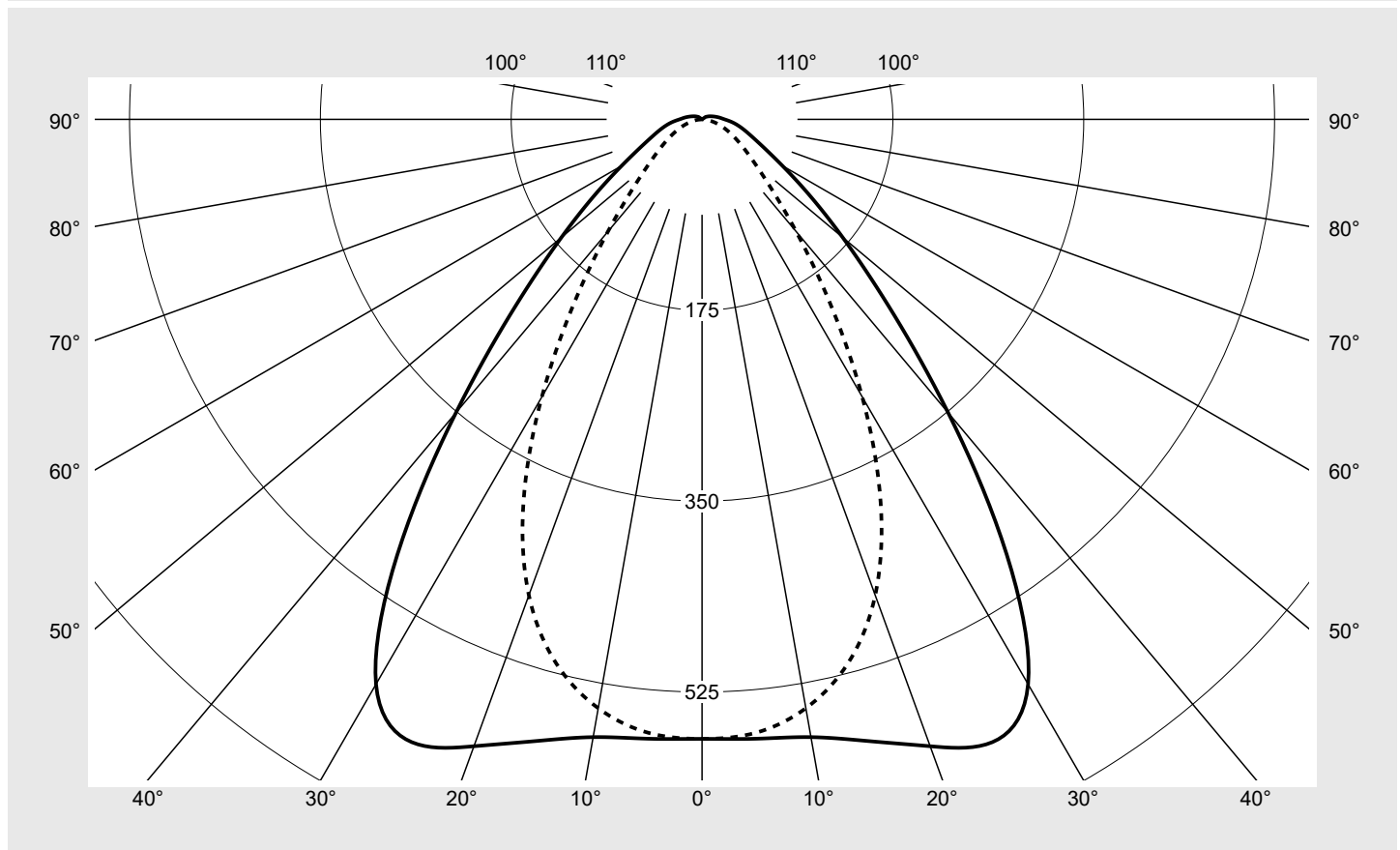
**sITeco**

**Lichtstärke in cd/klm**

**C180-0**

**C270-90**

**Imax: 630 cd/klm**



**Klassifizierungen**

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

**Leuchtenbetriebswirkungsgrade**

$\eta_{LB}$  100,0%  
 $\phi_u$  98,3%  
 $\phi_o$  1,7%

**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° |             |                      |                   |
| γ            |            | Lichtstärke in cd/klm |                      |                      |                      |                      |             | Lichtstrom 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-Tabelle     |     | Standardraum                        |      |      |      |      |                                       |      |      |      |      |
|-----------------|-----|-------------------------------------|------|------|------|------|---------------------------------------|------|------|------|------|
| Raumabmessungen |     | Blickrichtung quer zur Leuchte (C0) |      |      |      |      | Blickrichtung längs zur Leuchte (C90) |      |      |      |      |
| x               | y   |                                     |      |      |      |      |                                       |      |      |      |      |
| 2H              | 2H  | 13,9                                | 15,3 | 14,2 | 15,6 | 16,0 | 9,7                                   | 11,2 | 10,1 | 11,5 | 11,8 |
|                 | 3H  | 14,5                                | 15,7 | 14,8 | 16,1 | 16,4 | 10,1                                  | 11,4 | 10,5 | 11,8 | 12,1 |
|                 | 4H  | 14,8                                | 16,0 | 15,2 | 16,3 | 16,7 | 10,3                                  | 11,5 | 10,7 | 11,9 | 12,3 |
|                 | 6H  | 15,2                                | 16,3 | 15,6 | 16,7 | 17,0 | 10,5                                  | 11,6 | 10,9 | 12,0 | 12,4 |
|                 | 8H  | 15,5                                | 16,4 | 15,9 | 16,8 | 17,2 | 10,5                                  | 11,6 | 11,0 | 12,0 | 12,4 |
|                 | 12H | 15,7                                | 16,6 | 16,2 | 17,0 | 17,4 | 10,6                                  | 11,6 | 11,0 | 12,0 | 12,4 |
| 4H              | 2H  | 13,9                                | 15,1 | 14,3 | 15,5 | 15,9 | 10,4                                  | 11,6 | 10,8 | 11,9 | 12,3 |
|                 | 3H  | 14,6                                | 15,7 | 15,1 | 16,1 | 16,5 | 10,9                                  | 11,9 | 11,4 | 12,3 | 12,7 |
|                 | 4H  | 15,1                                | 16,0 | 15,5 | 16,4 | 16,8 | 11,2                                  | 12,1 | 11,6 | 12,5 | 12,9 |
|                 | 6H  | 15,7                                | 16,4 | 16,1 | 16,9 | 17,3 | 11,4                                  | 12,2 | 11,9 | 12,6 | 13,1 |
|                 | 8H  | 16,0                                | 16,7 | 16,5 | 17,1 | 17,6 | 11,5                                  | 12,2 | 12,0 | 12,7 | 13,1 |
|                 | 12H | 16,4                                | 16,9 | 16,8 | 17,4 | 17,9 | 11,6                                  | 12,2 | 12,0 | 12,7 | 13,2 |
| 8H              | 4H  | 15,1                                | 15,8 | 15,6 | 16,3 | 16,8 | 11,5                                  | 12,2 | 12,0 | 12,6 | 13,1 |
|                 | 6H  | 15,8                                | 16,4 | 16,3 | 16,8 | 17,3 | 11,8                                  | 12,4 | 12,3 | 12,9 | 13,4 |
|                 | 8H  | 16,2                                | 16,7 | 16,7 | 17,2 | 17,7 | 12,0                                  | 12,5 | 12,5 | 13,0 | 13,5 |
|                 | 12H | 16,7                                | 17,1 | 17,2 | 17,6 | 18,1 | 12,1                                  | 12,5 | 12,6 | 13,0 | 13,6 |
| 12H             | 4H  | 15,1                                | 15,7 | 15,6 | 16,2 | 16,7 | 11,6                                  | 12,2 | 12,1 | 12,6 | 13,1 |
|                 | 6H  | 15,8                                | 16,3 | 16,3 | 16,8 | 17,3 | 12,0                                  | 12,4 | 12,5 | 12,9 | 13,5 |
|                 | 8H  | 16,2                                | 16,6 | 16,7 | 17,1 | 17,7 | 12,1                                  | 12,6 | 12,7 | 13,1 | 13,6 |

|  |  |                        |                           |
|--|--|------------------------|---------------------------|
| <b>Leuchtdichten-Tabelle</b> Max. für $\gamma \geq 65^\circ$ | <b>Lichttechnische Abmessungen in mm:</b> L = 1480, B = 78 | H(C0) = 13, H(C90) = 0 | H(C180) = 13, H(C270) = 0 |
|--|--|------------------------|---------------------------|

| 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°      |          | 2461.9                            | 2565.6                      | 2670.2                      | 2252.2                      | 1539.9                      | 1146.1                      | 1068.7      |  |
| 50°      |          | 1835.6                            | 1908.6                      | 1995.9                      | 1656.3                      | 1122.3                      | 867.2                       | 832.9       |  |
| 55°      |          | 1406.7                            | 1451.3                      | 1498.1                      | 1221.1                      | 845.5                       | 695.1                       | 696.2       |  |
| 60°      |          | 1109.7                            | 1128.1                      | 1134.4                      | 922.8                       | 670.9                       | 584.5                       | 606.0       |  |
| 65°      |          | 934.3                             | 924.8                       | 884.1                       | 724.8                       | 563.3                       | 510.5                       | 540.3       |  |
| 70°      |          | 848.8                             | 812.2                       | 718.3                       | 595.8                       | 495.0                       | 454.6                       | 488.3       |  |
| 75°      |          | 826.0                             | 762.6                       | 622.5                       | 512.1                       | 444.5                       | 405.2                       | 438.4       |  |
| 80°      |          | 845.2                             | 759.2                       | 584.0                       | 462.3                       | 405.8                       | 365.3                       | 388.0       |  |
| 85°      |          | 901.5                             | 803.3                       | 596.5                       | 458.9                       | 394.4                       | 339.6                       | 349.1       |  |

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Leuchtdichten in cd/m<sup>2</sup>      γ 65°    γ 70°    γ 75°    γ 80°    γ 85°      **siteco**

