

## Lichttechnischer Prüfbefund

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

**Bestell-Nr.: 51TP12DN4FXMD**  
**EAN: 4069025295699**

**LP-Nummer**  
**58523\_208**



**Ausführung** Prismenabdeckung, satiniert, breit strahlend  
**Bestückung** LED 4000 K | CRI ≥ 80  
**Betriebsgerät** EVG-DALI  
**Einstellung** DC Betrieb (Zentral- / Gruppenakku) Initiales Notlichtlevel  
**Bemessungswerte** Nettolichtstrom = 2290 lm  
 Systemleistung = 13.9 W  
 Lichtausbeute = 164.8 lm/W

**Seriendokumentation**  
**04.10.2023**

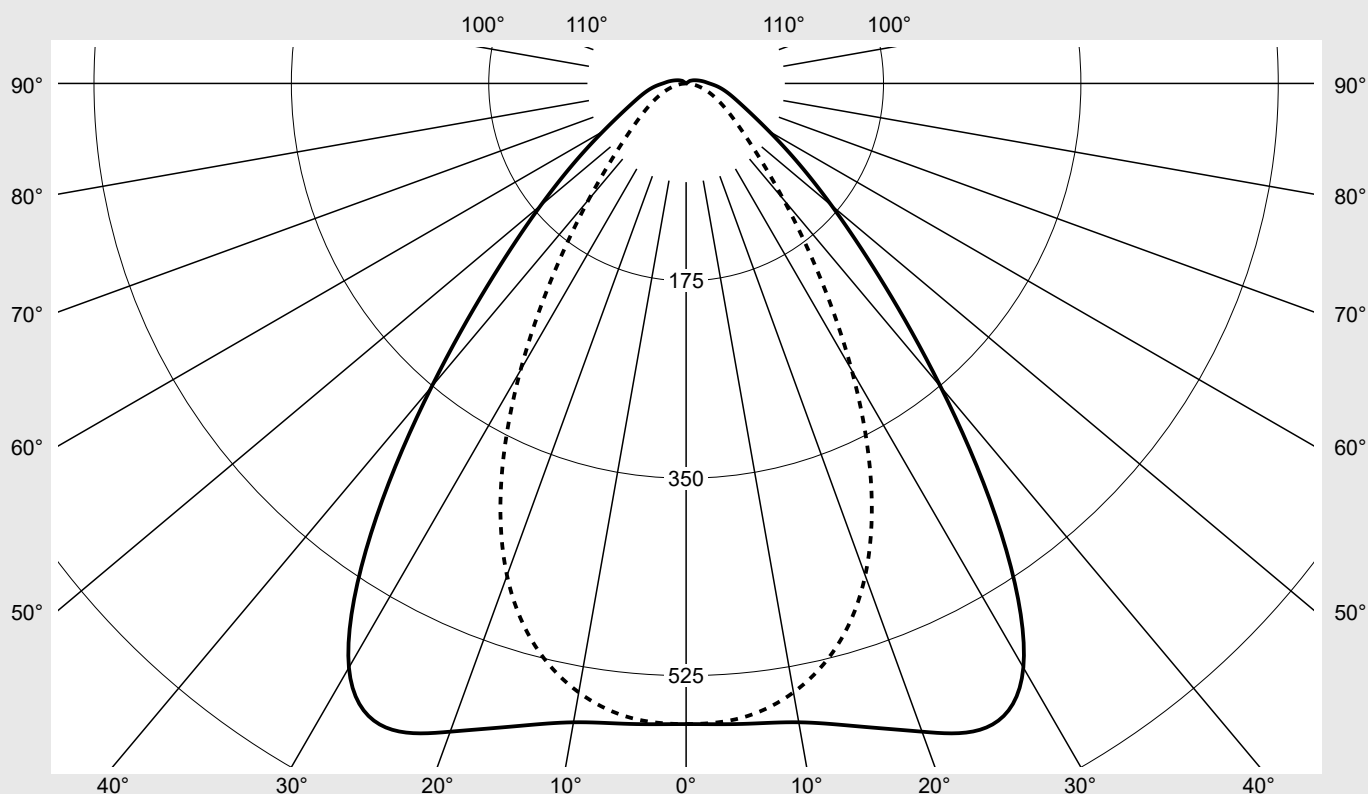
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**Lichtstärke in cd/klm**

**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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|                                  |                                                  |                        |
|----------------------------------|--------------------------------------------------|------------------------|
| Familie<br>Licross® 11 Protected | Bestell-Nr.: 51TP12DN4FXMD<br>EAN: 4069025295699 | LP-Nummer<br>58523_208 |
| Wertetabelle Lichtstärkemessung  |                                                  | Maximale Lichtstärke   |
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| C-<br>Ebenen | 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             | Summe<br>Phi-Zone |
|--------------|-----------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-------------|----------------------|-------------------|
| 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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|                                  |     |                                                  |      |      |      |      |                                       |      |                        |      |
|----------------------------------|-----|--------------------------------------------------|------|------|------|------|---------------------------------------|------|------------------------|------|
| Familie<br>Licross® 11 Protected |     | Bestell-Nr.: 51TP12DN4FXMD<br>EAN: 4069025295699 |      |      |      |      |                                       |      | LP-Nummer<br>58523_208 |      |
| UGR-Tabelle                      |     | Standardraum                                     |      |      |      |      |                                       |      | siteco                 |      |
| Reflexionsgrad Decke             | 0,7 | 0,7                                              | 0,5  | 0,5  | 0,3  | 0,7  | 0,7                                   | 0,5  | 0,5                    | 0,3  |
| Reflexionsgrad Wände             | 0,5 | 0,3                                              | 0,5  | 0,3  | 0,3  | 0,5  | 0,3                                   | 0,5  | 0,3                    | 0,3  |
| Reflexionsgrad Boden             | 0,2 | 0,2                                              | 0,2  | 0,2  | 0,2  | 0,2  | 0,2                                   | 0,2  | 0,2                    | 0,2  |
| Raumabmessungen                  |     | Blickrichtung quer zur Leuchte (C0)              |      |      |      |      | Blickrichtung längs zur Leuchte (C90) |      |                        |      |
| x                                | y   |                                                  |      |      |      |      |                                       |      |                        |      |
| 2H                               | 2H  | 16,9                                             | 18,3 | 17,2 | 18,6 | 18,9 | 12,7                                  | 14,1 | 13,0                   | 14,4 |
|                                  | 3H  | 17,4                                             | 18,7 | 17,8 | 19,1 | 19,4 | 13,1                                  | 14,4 | 13,5                   | 14,8 |
|                                  | 4H  | 17,8                                             | 19,0 | 18,2 | 19,3 | 19,7 | 13,3                                  | 14,5 | 13,7                   | 14,9 |
|                                  | 6H  | 18,2                                             | 19,3 | 18,6 | 19,6 | 20,0 | 13,4                                  | 14,6 | 13,9                   | 15,0 |
|                                  | 8H  | 18,5                                             | 19,4 | 18,9 | 19,8 | 20,2 | 13,5                                  | 14,6 | 14,0                   | 15,0 |
|                                  | 12H | 18,7                                             | 19,6 | 19,2 | 20,0 | 20,4 | 13,6                                  | 14,6 | 14,0                   | 15,0 |
| 4H                               | 2H  | 16,9                                             | 18,1 | 17,3 | 18,5 | 18,8 | 13,4                                  | 14,5 | 13,8                   | 14,9 |
|                                  | 3H  | 17,6                                             | 18,6 | 18,1 | 19,0 | 19,4 | 13,9                                  | 14,9 | 14,3                   | 15,3 |
|                                  | 4H  | 18,1                                             | 19,0 | 18,5 | 19,4 | 19,8 | 14,2                                  | 15,1 | 14,6                   | 15,5 |
|                                  | 6H  | 18,6                                             | 19,4 | 19,1 | 19,8 | 20,3 | 14,4                                  | 15,2 | 14,8                   | 15,6 |
|                                  | 8H  | 19,0                                             | 19,7 | 19,4 | 20,1 | 20,6 | 14,5                                  | 15,2 | 14,9                   | 15,6 |
|                                  | 12H | 19,3                                             | 19,9 | 19,8 | 20,4 | 20,9 | 14,5                                  | 15,2 | 15,0                   | 15,6 |
| 8H                               | 4H  | 18,1                                             | 18,8 | 18,6 | 19,3 | 19,7 | 14,5                                  | 15,2 | 15,0                   | 15,6 |
|                                  | 6H  | 18,7                                             | 19,3 | 19,2 | 19,8 | 20,3 | 14,8                                  | 15,4 | 15,3                   | 15,9 |
|                                  | 8H  | 19,1                                             | 19,7 | 19,7 | 20,2 | 20,7 | 14,9                                  | 15,5 | 15,4                   | 15,9 |
|                                  | 12H | 19,7                                             | 20,1 | 20,2 | 20,6 | 21,1 | 15,1                                  | 15,5 | 15,6                   | 16,0 |
| 12H                              | 4H  | 18,1                                             | 18,7 | 18,6 | 19,2 | 19,7 | 14,6                                  | 15,2 | 15,1                   | 15,6 |
|                                  | 6H  | 18,8                                             | 19,3 | 19,3 | 19,7 | 20,3 | 15,0                                  | 15,4 | 15,5                   | 15,9 |
|                                  | 8H  | 19,2                                             | 19,6 | 19,7 | 20,1 | 20,7 | 15,1                                  | 15,5 | 15,6                   | 16,0 |

|                       |   |                   |                             |                                    |                             |                             |                             |                             |
|-----------------------|---|-------------------|-----------------------------|------------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Leuchtdichten-Tabelle |   | Max. für γ >= 65° |                             | Lichttechnische Abmessungen in mm: |                             | L = 1480<br>B = 78          | H(C0) = 13<br>H(C90) = 0    | H(C180) = 13<br>H(C270) = 0 |
| C-<br>Ebenen          | γ | 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°                 |
|                       |   |                   | Leuchtdichte in cd/m²       |                                    |                             |                             |                             |                             |
| 45°                   |   | 5812.2            | 6056.9                      | 6303.8                             | 5317.0                      | 3635.5                      | 2705.7                      | 2523.0                      |
| 50°                   |   | 4333.5            | 4506.0                      | 4712.0                             | 3910.2                      | 2649.6                      | 2047.4                      | 1966.4                      |
| 55°                   |   | 3320.9            | 3426.2                      | 3536.8                             | 2882.8                      | 1996.2                      | 1641.0                      | 1643.6                      |
| 60°                   |   | 2619.7            | 2663.2                      | 2678.1                             | 2178.6                      | 1583.9                      | 1379.9                      | 1430.7                      |
| 65°                   |   | 2205.7            | 2183.4                      | 2087.2                             | 1711.2                      | 1329.9                      | 1205.2                      | 1275.6                      |
| 70°                   |   | 2003.9            | 1917.5                      | 1695.7                             | 1406.5                      | 1168.7                      | 1073.2                      | 1152.7                      |
| 75°                   |   | 1950.0            | 1800.3                      | 1469.7                             | 1208.9                      | 1049.3                      | 956.7                       | 1035.0                      |
| 80°                   |   | 1995.3            | 1792.4                      | 1378.6                             | 1091.5                      | 958.1                       | 862.5                       | 916.0                       |
| 85°                   |   | 2128.3            | 1896.4                      | 1408.3                             | 1083.4                      | 931.2                       | 801.9                       | 824.2                       |

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|                                                                                                                                     |                                                                     |                                           |
|-------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|-------------------------------------------|
| <div>Familie</div> <div>Licross® 11 Protected</div>                                                                                 | <div>Bestell-Nr.: 51TP12DN4FXMD</div> <div>EAN: 4069025295699</div> | <div>LP-Nummer</div> <div>58523_208</div> |
| <div>Leuchtdichten in cd/m²</div> <div> <div>γ 65°</div> <div>γ 70°</div> <div>γ 75°</div> <div>γ 80°</div> <div>γ 85°</div> </div> |                                                                     |                                           |

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