

## Lichttechnischer Prüfbefund

**Familie**  
**Licross® 21 Protected**

**Bestell-Nr.: 52TP11DN48XG**  
**EAN: 4058352903667**

**LP-Nummer**  
**58526\_178**



**Ausführung** Prismenabdeckung, satiniert, eng strahlend  
**Bestückung** LED 4000 K | CRI ≥ 80  
**Betriebsgerät** EVG-DALI  
**Bemessungswerte** Nettolichtstrom = 8000 lm  
 Systemleistung = 45.5 W  
 Lichtausbeute = 175.8 lm/W

**Seriendokumentation**  
**03.08.2023**

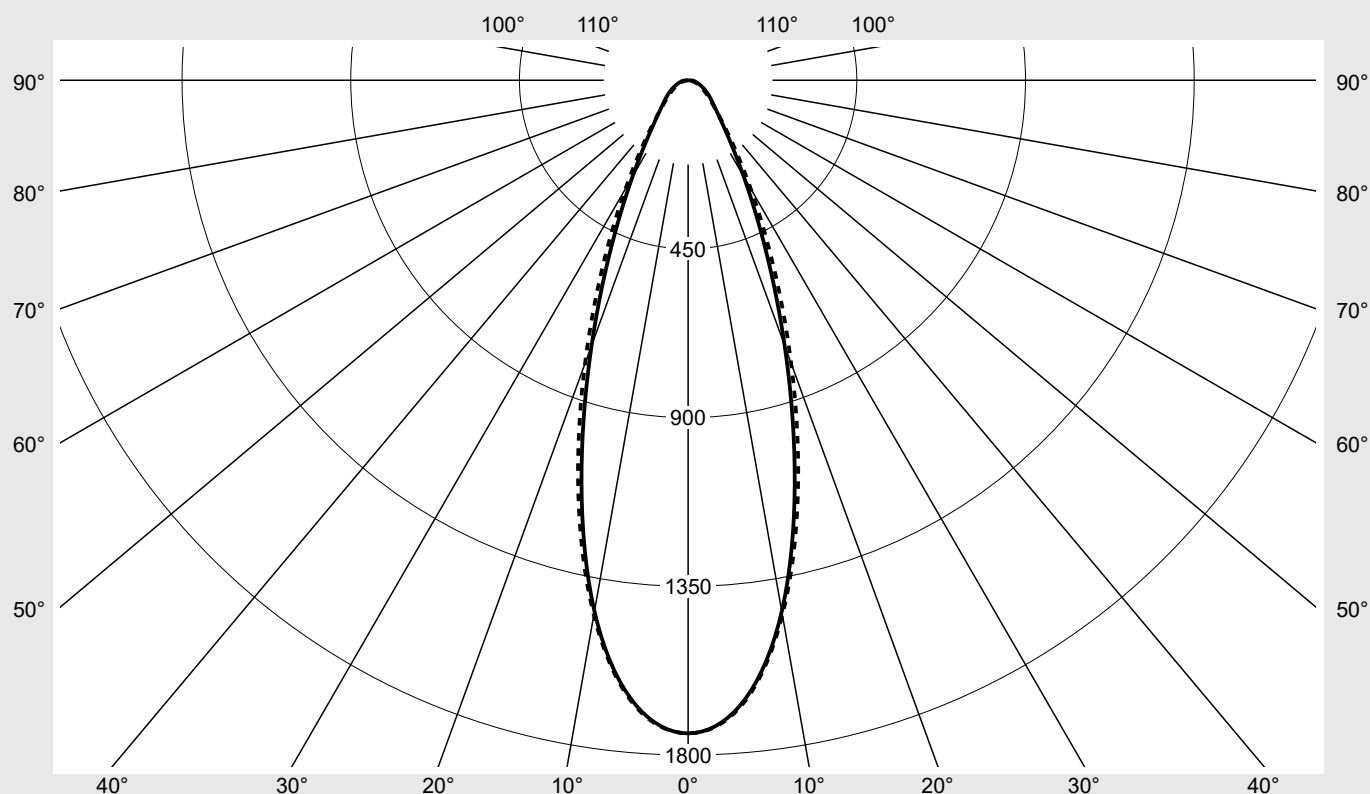
**siteco**

**Lichtstärke in cd/klm**

**C180-0**

**C270-90**

**Imax: 1742 cd/klm**



**Klassifizierungen**

DIN 5040 A 7 0  
 CIE N1=83 N2=94 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

## Lichttechnischer Prüfbefund

|   |   |                                      |
|---|---|--------------------------------------|
| <b>Familie</b><br>Licross® 21 Protected | <b>Bestell-Nr.: 52TP11DN48XG</b><br><b>EAN: 4058352903667</b> | <b>LP-Nummer</b><br><b>58526_178</b> |
| <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°           | 1742.2     | 1742.2                | 1742.2               | 1742.2               | 1742.2               | 1742.2               | 1742.2      | 10.4                 | 10.4              |
| 5°           | 1666.1     | 1675.3                | 1660.6               | 1665.8               | 1671.6               | 1669.6               | 1670.7      | 79.7                 | 90.1              |
| 10°          | 1438.7     | 1454.0                | 1443.6               | 1449.9               | 1452.8               | 1449.1               | 1448.5      | 137.9                | 228.0             |
| 15°          | 1099.0     | 1113.1                | 1114.3               | 1128.7               | 1137.3               | 1134.2               | 1132.4      | 159.4                | 387.5             |
| 20°          | 752.6      | 761.9                 | 768.4                | 788.3                | 803.8                | 805.8                | 803.7       | 147.1                | 534.5             |
| 25°          | 477.8      | 482.8                 | 489.1                | 506.4                | 523.2                | 529.8                | 529.1       | 117.2                | 651.7             |
| 30°          | 296.4      | 297.2                 | 300.0                | 310.9                | 324.6                | 332.2                | 333.5       | 85.9                 | 737.6             |
| 35°          | 189.3      | 187.5                 | 185.3                | 189.4                | 198.7                | 205.9                | 208.7       | 61.1                 | 798.7             |
| 40°          | 131.6      | 127.9                 | 121.5                | 120.2                | 125.3                | 132.4                | 136.6       | 44.7                 | 843.4             |
| 45°          | 99.4       | 94.4                  | 85.5                 | 81.0                 | 83.2                 | 90.3                 | 95.8        | 34.4                 | 877.7             |
| 50°          | 79.8       | 74.4                  | 64.7                 | 58.7                 | 59.3                 | 65.8                 | 72.1        | 27.9                 | 905.7             |
| 55°          | 65.2       | 60.1                  | 51.3                 | 45.2                 | 44.8                 | 50.3                 | 56.0        | 23.4                 | 929.0             |
| 60°          | 52.4       | 48.1                  | 41.3                 | 36.1                 | 35.0                 | 38.9                 | 43.4        | 19.6                 | 948.6             |
| 65°          | 41.2       | 37.9                  | 33.1                 | 29.2                 | 27.7                 | 29.8                 | 32.8        | 16.1                 | 964.7             |
| 70°          | 31.9       | 29.5                  | 26.2                 | 23.4                 | 21.7                 | 22.1                 | 23.6        | 12.9                 | 977.6             |
| 75°          | 24.4       | 22.6                  | 20.2                 | 18.2                 | 16.5                 | 15.4                 | 15.7        | 10.0                 | 987.6             |
| 80°          | 18.3       | 17.0                  | 15.2                 | 13.6                 | 11.8                 | 9.9                  | 9.2         | 7.3                  | 994.9             |
| 85°          | 13.3       | 12.5                  | 11.1                 | 9.7                  | 7.7                  | 5.4                  | 4.2         | 5.0                  | 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            |

## Lichttechnischer Prüfbefund

|   |   |                               |
|---|---|-------------------------------|
| <b>Familie</b><br>Licross® 21 Protected | <b>Bestell-Nr.: 52TP11DN48XG</b><br><b>EAN: 4058352903667</b> | <b>LP-Nummer</b><br>58526_178 |
|---|---|-------------------------------|

| UGR-Tabelle     |     | Standardraum                        |      |      |      |      |                                       |      |      |      |      |
|-----------------|-----|-------------------------------------|------|------|------|------|---------------------------------------|------|------|------|------|
|                 |     | Blickrichtung quer zur Leuchte (C0) |      |      |      |      | Blickrichtung längs zur Leuchte (C90) |      |      |      |      |
| Raumabmessungen |     |                                     |      |      |      |      |                                       |      |      |      |      |
| x               | y   |                                     |      |      |      |      |                                       |      |      |      |      |
| 2H              | 2H  | 15,8                                | 17,0 | 16,2 | 17,4 | 17,7 | 15,7                                  | 16,9 | 16,0 | 17,2 | 17,5 |
|                 | 3H  | 16,9                                | 18,0 | 17,3 | 18,3 | 18,7 | 16,5                                  | 17,6 | 16,9 | 18,0 | 18,3 |
|                 | 4H  | 17,4                                | 18,5 | 17,8 | 18,8 | 19,2 | 16,9                                  | 17,9 | 17,3 | 18,3 | 18,7 |
|                 | 6H  | 17,9                                | 18,8 | 18,4 | 19,2 | 19,6 | 17,2                                  | 18,1 | 17,6 | 18,5 | 18,9 |
|                 | 8H  | 18,3                                | 19,0 | 18,7 | 19,4 | 19,8 | 17,4                                  | 18,2 | 17,8 | 18,6 | 19,0 |
|                 | 12H | 18,5                                | 19,2 | 18,9 | 19,6 | 20,0 | 17,5                                  | 18,2 | 17,9 | 18,6 | 19,0 |
| 4H              | 2H  | 16,0                                | 17,1 | 16,4 | 17,4 | 17,8 | 15,9                                  | 16,9 | 16,3 | 17,3 | 17,6 |
|                 | 3H  | 17,3                                | 18,2 | 17,8 | 18,6 | 19,0 | 17,0                                  | 17,8 | 17,4 | 18,2 | 18,6 |
|                 | 4H  | 18,0                                | 18,7 | 18,4 | 19,2 | 19,6 | 17,4                                  | 18,2 | 17,9 | 18,6 | 19,0 |
|                 | 6H  | 18,6                                | 19,3 | 19,1 | 19,7 | 20,2 | 17,9                                  | 18,5 | 18,3 | 18,9 | 19,4 |
|                 | 8H  | 19,0                                | 19,5 | 19,4 | 20,0 | 20,5 | 18,0                                  | 18,6 | 18,5 | 19,0 | 19,5 |
|                 | 12H | 19,3                                | 19,8 | 19,8 | 20,3 | 20,8 | 18,1                                  | 18,6 | 18,6 | 19,1 | 19,6 |
| 8H              | 4H  | 18,2                                | 18,7 | 18,6 | 19,2 | 19,7 | 17,7                                  | 18,2 | 18,1 | 18,7 | 19,2 |
|                 | 6H  | 18,9                                | 19,4 | 19,4 | 19,9 | 20,4 | 18,2                                  | 18,7 | 18,7 | 19,1 | 19,6 |
|                 | 8H  | 19,4                                | 19,8 | 19,9 | 20,3 | 20,8 | 18,4                                  | 18,8 | 18,9 | 19,3 | 19,8 |
|                 | 12H | 19,8                                | 20,2 | 20,4 | 20,7 | 21,2 | 18,6                                  | 18,9 | 19,1 | 19,4 | 20,0 |
| 12H             | 4H  | 18,2                                | 18,7 | 18,7 | 19,1 | 19,6 | 17,7                                  | 18,2 | 18,2 | 18,7 | 19,2 |
|                 | 6H  | 19,0                                | 19,4 | 19,5 | 19,9 | 20,4 | 18,3                                  | 18,7 | 18,8 | 19,2 | 19,7 |
|                 | 8H  | 19,5                                | 19,8 | 20,0 | 20,3 | 20,9 | 18,6                                  | 18,9 | 19,1 | 19,4 | 19,9 |

|  |   |            |              |            |             |
|--|---|------------|--------------|------------|-------------|
| <b>Leuchtdichten-Tabelle</b> Max. für $\gamma \geq 65^\circ$ | <b>Lichttechnische Abmessungen in mm:</b> L = 1480 B = 78 | H(C0) = 13 | H(C180) = 13 | H(C90) = 0 | 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°      |          | 8352.2                            | 7969.5                      | 7320.2                      | 7103.8                      | 7530.6                      | 8482.9                      | 9385.4      |  |
| 50°      |          | 7177.7                            | 6726.8                      | 5953.1                      | 5550.8                      | 5814.4                      | 6751.5                      | 7771.6      |  |
| 55°      |          | 6360.2                            | 5900.7                      | 5141.6                      | 4674.0                      | 4839.8                      | 5723.4                      | 6770.8      |  |
| 60°      |          | 5634.0                            | 5218.2                      | 4581.1                      | 4150.7                      | 4234.3                      | 5018.0                      | 6013.3      |  |
| 65°      |          | 4980.3                            | 4624.7                      | 4149.1                      | 3820.3                      | 3850.3                      | 4479.1                      | 5382.9      |  |
| 70°      |          | 4437.5                            | 4138.9                      | 3800.9                      | 3577.6                      | 3585.1                      | 3996.0                      | 4775.7      |  |
| 75°      |          | 4028.7                            | 3780.1                      | 3523.5                      | 3384.2                      | 3372.8                      | 3557.6                      | 4216.1      |  |
| 80°      |          | 3746.7                            | 3544.8                      | 3332.1                      | 3256.3                      | 3190.5                      | 3171.5                      | 3666.8      |  |
| 85°      |          | 3632.1                            | 3503.2                      | 3333.2                      | 3286.5                      | 3154.4                      | 2892.8                      | 3309.3      |  |

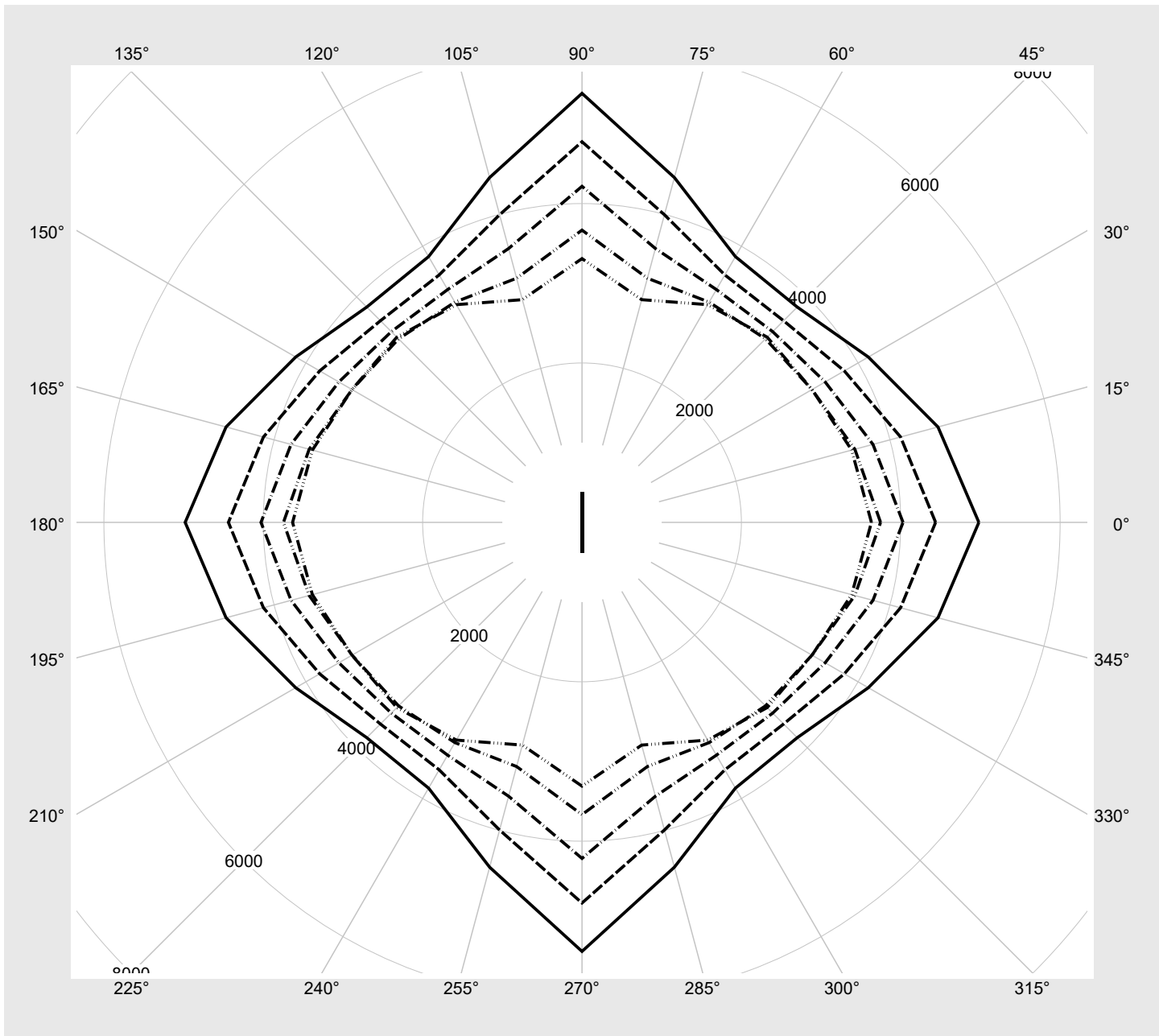
### Lichttechnischer Prüfbefund

|   |   |                                      |
|---|---|--------------------------------------|
| <b>Familie</b><br>Licross® 21 Protected | <b>Bestell-Nr.: 52TP11DN48XG</b><br><b>EAN: 4058352903667</b> | <b>LP-Nummer</b><br><b>58526_178</b> |
|---|---|--------------------------------------|

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

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

**siteco**



## Lichttechnischer Prüfbefund

|   |   |                                      |
|---|---|--------------------------------------|
| <b>Familie</b><br>Licross® 21 Protected | <b>Bestell-Nr.: 52TP11DN48XG</b><br><b>EAN: 4058352903667</b> | <b>LP-Nummer</b><br><b>58526_178</b> |
|---|---|--------------------------------------|

|                           |                           |               |
|---------------------------|---------------------------|---------------|
| <b>Dimmstufen-Tabelle</b> | Umgebungstemperatur: 25°C | <b>sITeco</b> |
|---------------------------|---------------------------|---------------|

| Lichtstrom [%] | Dimmstufe linear | Dimmstufe logarithmisch | Lichtstrom [lm] | Systemleistung [W] |
|----------------|------------------|-------------------------|-----------------|--------------------|
| 100            | 254              | 254                     | 8000            | 45.5               |
| 95             | 241              | 252                     | 7613            | 43.2               |
| 90             | 227              | 250                     | 7194            | 40.6               |
| 85             | 214              | 248                     | 6806            | 38.4               |
| 80             | 201              | 245                     | 6412            | 36.2               |
| 75             | 188              | 243                     | 6015            | 33.9               |
| 70             | 174              | 240                     | 5587            | 31.5               |
| 65             | 162              | 238                     | 5215            | 29.4               |
| 60             | 149              | 234                     | 4812            | 27.2               |
| 55             | 136              | 231                     | 4403            | 25.0               |
| 50             | 123              | 227                     | 3991            | 22.7               |
| 45             | 111              | 224                     | 3610            | 20.8               |
| 40             | 98               | 219                     | 3194            | 18.6               |
| 35             | 86               | 214                     | 2807            | 16.5               |
| 30             | 73               | 208                     | 2388            | 14.3               |
| 25             | 61               | 202                     | 1997            | 12.3               |
| 20             | 49               | 194                     | 1606            | 10.2               |
| 15             | 37               | 183                     | 1211            | 8.2                |
| 10             | 25               | 169                     | 814             | 6.2                |
| 5              | 12               | 142                     | 385             | 4.1                |
| 2              | 5                | 110                     | 150             | 3.0                |