

## Lichttechnischer Prüfbefund

**Familie**  
Licross® 21 Recessed

**Bestell-Nr.:** 52TL12DN395G  
**EAN:** 4058352971291

**LP-Nummer**  
59101\_351



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

**Bestückung** LED 3000 K | CRI ≥ 80

**Betriebsgerät** EVG-DALI

**Bemessungswerte** Nettolichtstrom = 9630 lm  
Systemleistung = 58.0 W  
Lichtausbeute = 166 lm/W

**Seriendokumentation**  
28.09.2023

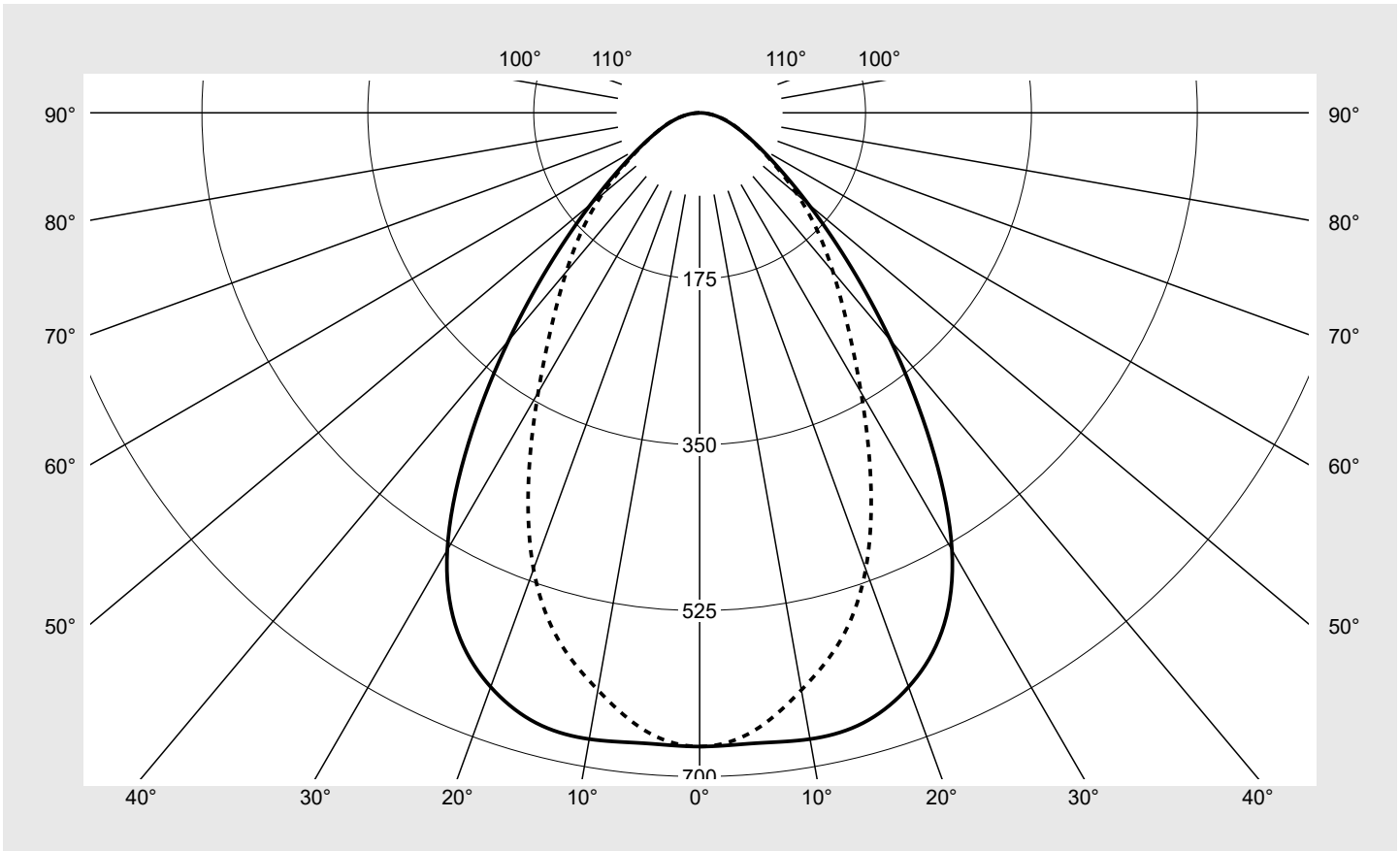
siteco

Lichtstärke in cd/klm

C180-0

C270-90

Imax: 671 cd/klm



**Klassifizierungen**

DIN 5040 A 6 0  
CIE N1=72 N2=92 N3=99  
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><b>Licross® 21 Recessed</b> | <b>Bestell-Nr.: 52TL12DN395G</b><br><b>EAN: 4058352971291</b> | <b>LP-Nummer</b><br><b>59101_351</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° |             |          |                   |
| Lichtstärke in cd/klm |            |                      |                      |                      |                      |                      |             |          |                   |
| Lichtstrom in lm/klm  |            |                      |                      |                      |                      |                      |             |          |                   |
| γ                     |            |                      |                      |                      |                      |                      |             |          |                   |
| 0°                    | 668.4      | 668.4                | 668.4                | 668.4                | 668.4                | 668.4                | 668.4       | 4.0      | 4.0               |
| 5°                    | 667.5      | 664.4                | 657.4                | 655.8                | 655.7                | 654.2                | 654.4       | 31.4     | 35.4              |
| 10°                   | 670.7      | 665.0                | 649.1                | 636.1                | 625.3                | 618.7                | 618.1       | 60.9     | 96.3              |
| 15°                   | 666.2      | 657.2                | 632.9                | 612.0                | 594.0                | 578.5                | 575.5       | 87.4     | 183.7             |
| 20°                   | 644.4      | 632.9                | 606.9                | 585.4                | 554.6                | 522.7                | 512.3       | 108.8    | 292.5             |
| 25°                   | 604.1      | 590.6                | 566.7                | 541.2                | 494.5                | 444.9                | 427.0       | 121.8    | 414.2             |
| 30°                   | 532.4      | 517.7                | 496.3                | 466.1                | 413.9                | 359.9                | 340.6       | 122.9    | 537.1             |
| 35°                   | 425.0      | 409.7                | 387.0                | 361.9                | 325.4                | 286.0                | 271.1       | 111.0    | 648.1             |
| 40°                   | 313.4      | 295.8                | 270.7                | 255.1                | 246.8                | 229.4                | 218.8       | 91.8     | 739.9             |
| 45°                   | 219.2      | 200.3                | 175.7                | 171.1                | 181.8                | 184.7                | 175.5       | 71.8     | 811.7             |
| 50°                   | 149.7      | 132.6                | 112.6                | 116.3                | 133.0                | 145.6                | 134.9       | 54.8     | 866.5             |
| 55°                   | 102.7      | 89.1                 | 74.7                 | 81.5                 | 98.1                 | 107.9                | 98.1        | 41.3     | 907.7             |
| 60°                   | 72.4       | 62.1                 | 51.3                 | 58.3                 | 71.8                 | 76.5                 | 71.0        | 31.0     | 938.7             |
| 65°                   | 52.1       | 44.3                 | 35.9                 | 41.6                 | 51.4                 | 54.2                 | 52.1        | 23.1     | 961.9             |
| 70°                   | 37.6       | 31.7                 | 24.7                 | 29.1                 | 35.6                 | 38.4                 | 38.3        | 16.9     | 978.8             |
| 75°                   | 26.0       | 21.3                 | 16.2                 | 19.0                 | 22.9                 | 25.9                 | 26.8        | 11.6     | 990.4             |
| 80°                   | 16.1       | 12.5                 | 9.2                  | 10.4                 | 12.6                 | 14.8                 | 15.7        | 6.8      | 997.3             |
| 85°                   | 7.0        | 5.4                  | 3.8                  | 4.1                  | 4.8                  | 5.7                  | 5.8         | 2.7      | 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            |

## Lichttechnischer Prüfbefund

|  |   |                               |
|--|---|-------------------------------|
| <b>Familie</b><br>Licross® 21 Recessed | <b>Bestell-Nr.: 52TL12DN395G</b><br><b>EAN: 4058352971291</b> | <b>LP-Nummer</b><br>59101_351 |
|--|---|-------------------------------|

| UGR-Tabelle          |           | Standardraum                        |      |      |      |      |                                       |      |      |      |      |
|----------------------|-----------|-------------------------------------|------|------|------|------|---------------------------------------|------|------|------|------|
| Raumabmessungen      |           | Blickrichtung quer zur Leuchte (C0) |      |      |      |      | Blickrichtung längs zur Leuchte (C90) |      |      |      |      |
| x                    | y         |                                     |      |      |      |      |                                       |      |      |      |      |
| 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  |      |
| <b>2H</b>            | <b>2H</b> | 21,6                                | 23,0 | 22,0 | 23,3 | 23,7 | 21,6                                  | 23,0 | 21,9 | 23,3 | 23,6 |
|                      | 3H        | 22,2                                | 23,5 | 22,6 | 23,8 | 24,2 | 22,3                                  | 23,6 | 22,7 | 23,9 | 24,3 |
|                      | 4H        | 22,5                                | 23,7 | 22,9 | 24,0 | 24,4 | 22,7                                  | 23,9 | 23,1 | 24,2 | 24,6 |
|                      | 6H        | 22,7                                | 23,8 | 23,1 | 24,2 | 24,6 | 22,9                                  | 24,0 | 23,3 | 24,4 | 24,8 |
|                      | 8H        | 22,9                                | 23,9 | 23,3 | 24,2 | 24,6 | 23,1                                  | 24,0 | 23,5 | 24,4 | 24,8 |
|                      | 12H       | 23,0                                | 23,9 | 23,4 | 24,2 | 24,7 | 23,1                                  | 24,0 | 23,5 | 24,4 | 24,8 |
| <b>4H</b>            | <b>2H</b> | 21,8                                | 23,0 | 22,2 | 23,3 | 23,7 | 21,8                                  | 22,9 | 22,2 | 23,3 | 23,7 |
|                      | 3H        | 22,4                                | 23,4 | 22,9 | 23,8 | 24,2 | 22,7                                  | 23,7 | 23,1 | 24,1 | 24,5 |
|                      | 4H        | 22,8                                | 23,7 | 23,2 | 24,1 | 24,5 | 23,2                                  | 24,0 | 23,6 | 24,4 | 24,9 |
|                      | 6H        | 23,1                                | 23,9 | 23,6 | 24,3 | 24,8 | 23,5                                  | 24,3 | 24,0 | 24,7 | 25,2 |
|                      | 8H        | 23,3                                | 23,9 | 23,7 | 24,4 | 24,9 | 23,6                                  | 24,3 | 24,1 | 24,8 | 25,2 |
|                      | 12H       | 23,4                                | 24,0 | 23,9 | 24,4 | 24,9 | 23,7                                  | 24,3 | 24,2 | 24,8 | 25,3 |
| <b>8H</b>            | <b>4H</b> | 22,9                                | 23,5 | 23,3 | 24,0 | 24,5 | 23,2                                  | 23,9 | 23,7 | 24,3 | 24,8 |
|                      | 6H        | 23,2                                | 23,8 | 23,7 | 24,3 | 24,8 | 23,6                                  | 24,2 | 24,1 | 24,7 | 25,2 |
|                      | 8H        | 23,4                                | 23,9 | 23,9 | 24,4 | 24,9 | 23,8                                  | 24,3 | 24,3 | 24,8 | 25,3 |
|                      | 12H       | 23,5                                | 23,9 | 24,1 | 24,4 | 25,0 | 23,9                                  | 24,3 | 24,4 | 24,8 | 25,4 |
| <b>12H</b>           | <b>4H</b> | 22,9                                | 23,5 | 23,4 | 23,9 | 24,4 | 23,2                                  | 23,8 | 23,7 | 24,3 | 24,8 |
|                      | 6H        | 23,2                                | 23,7 | 23,8 | 24,2 | 24,7 | 23,7                                  | 24,1 | 24,2 | 24,6 | 25,1 |
|                      | 8H        | 23,4                                | 23,8 | 23,9 | 24,3 | 24,9 | 23,8                                  | 24,2 | 24,3 | 24,7 | 25,3 |

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

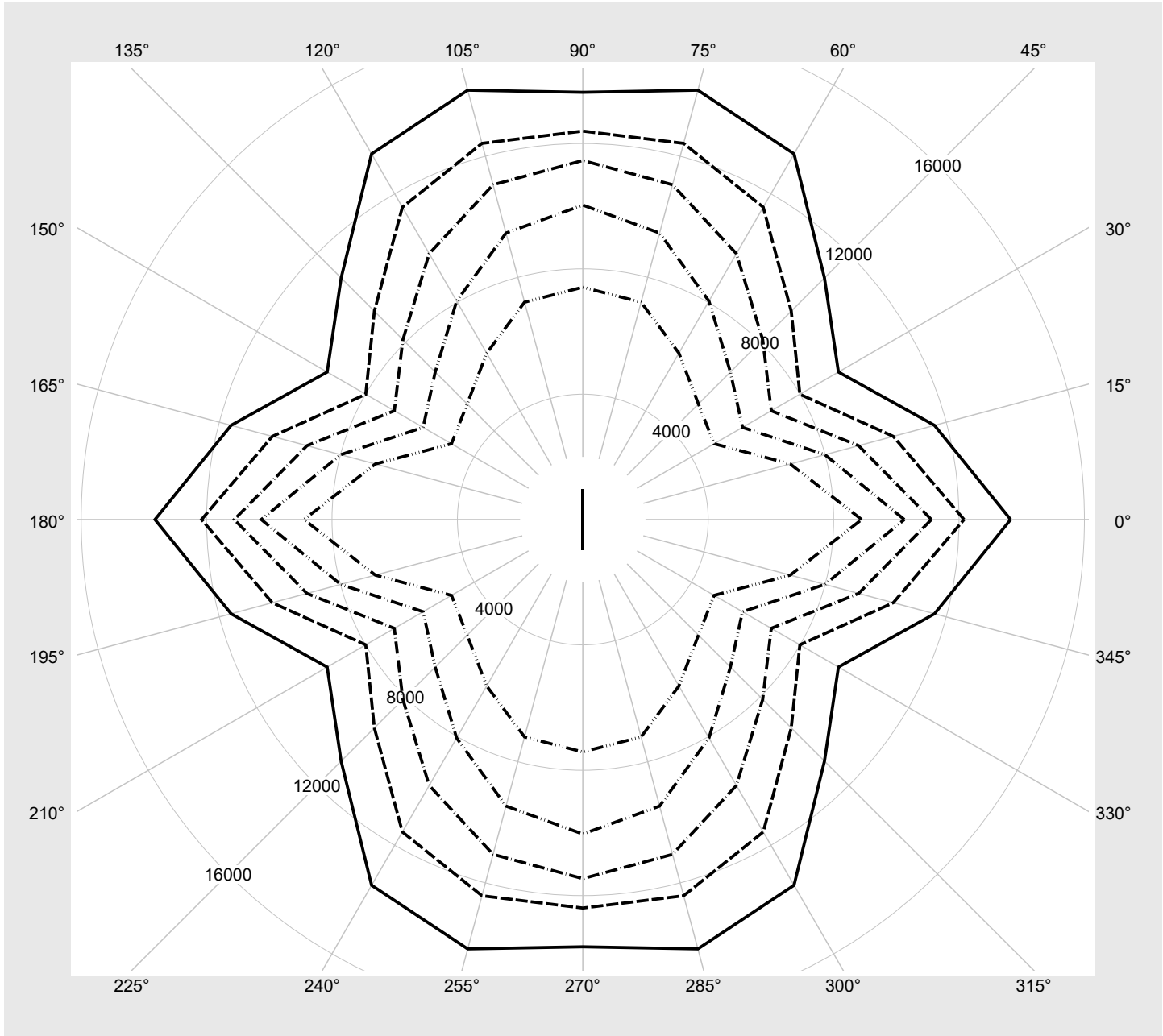
Lichttechnische Abmessungen in mm: **L = 1500**  
**B = 58**

| C-<br>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°          |          | 34316.4                           | 31362.2                     | 27499.6                     | 26789.3                     | 28458.6                     | 28912.7                     | 27476.5     |
| 50°          |          | 25776.1                           | 22829.4                     | 19391.9                     | 20028.2                     | 22902.1                     | 25075.8                     | 23222.4     |
| 55°          |          | 19812.6                           | 17199.7                     | 14419.2                     | 15732.4                     | 18927.4                     | 20832.0                     | 18922.6     |
| 60°          |          | 16023.9                           | 13755.0                     | 11358.5                     | 12916.2                     | 15887.7                     | 16938.0                     | 15713.3     |
| 65°          |          | 13646.2                           | 11614.6                     | 9415.3                      | 10901.9                     | 13474.7                     | 14184.0                     | 13633.1     |
| 70°          |          | 12160.6                           | 10253.7                     | 7995.1                      | 9402.9                      | 11510.4                     | 12427.9                     | 12396.5     |
| 75°          |          | 11119.0                           | 9108.1                      | 6942.4                      | 8116.4                      | 9798.4                      | 11059.6                     | 11458.2     |
| 80°          |          | 10255.7                           | 7995.4                      | 5882.3                      | 6658.0                      | 8048.9                      | 9465.3                      | 10034.5     |
| 85°          |          | 8894.0                            | 6850.5                      | 4837.5                      | 5216.0                      | 6131.7                      | 7180.7                      | 7414.4      |

**Lichttechnischer Prüfbefund**

|  |   |                                      |
|--|---|--------------------------------------|
| <b>Familie</b><br>Licross® 21 Recessed | <b>Bestell-Nr.: 52TL12DN395G</b><br><b>EAN: 4058352971291</b> | <b>LP-Nummer</b><br><b>59101_351</b> |
|--|---|--------------------------------------|

**Leuchtdichten in cd/m²**       $\gamma$  65°     $\gamma$  70°     $\gamma$  75°     $\gamma$  80°     $\gamma$  85°



## Lichttechnischer Prüfbefund

|  |   |                                      |
|--|---|--------------------------------------|
| <b>Familie</b><br>Licross® 21 Recessed | <b>Bestell-Nr.: 52TL12DN395G</b><br><b>EAN: 4058352971291</b> | <b>LP-Nummer</b><br><b>59101_351</b> |
|--|---|--------------------------------------|

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

| Lichtstrom [%] | Dimmstufe linear | Dimmstufe logarithmisch | Lichtstrom [lm] | Systemleistung [W] |
|----------------|------------------|-------------------------|-----------------|--------------------|
| 100            | 254              | 254                     | 9630            | 58.0               |
| 95             | 240              | 252                     | 9147            | 54.8               |
| 90             | 226              | 250                     | 8658            | 51.5               |
| 85             | 213              | 248                     | 8198            | 48.7               |
| 80             | 199              | 245                     | 7698            | 45.5               |
| 75             | 186              | 243                     | 7226            | 42.6               |
| 70             | 173              | 240                     | 6751            | 39.6               |
| 65             | 160              | 237                     | 6273            | 36.8               |
| 60             | 147              | 234                     | 5789            | 33.9               |
| 55             | 134              | 231                     | 5300            | 31.0               |
| 50             | 121              | 227                     | 4804            | 28.2               |
| 45             | 109              | 223                     | 4344            | 25.5               |
| 40             | 96               | 218                     | 3840            | 22.7               |
| 35             | 84               | 213                     | 3373            | 20.1               |
| 30             | 72               | 208                     | 2899            | 17.5               |
| 25             | 60               | 201                     | 2422            | 15.0               |
| 20             | 48               | 193                     | 1941            | 12.3               |
| 15             | 36               | 182                     | 1457            | 9.7                |
| 10             | 24               | 168                     | 970             | 7.2                |
| 5              | 12               | 142                     | 479             | 4.6                |
| 2              | 4                | 102                     | 149             | 3.0                |