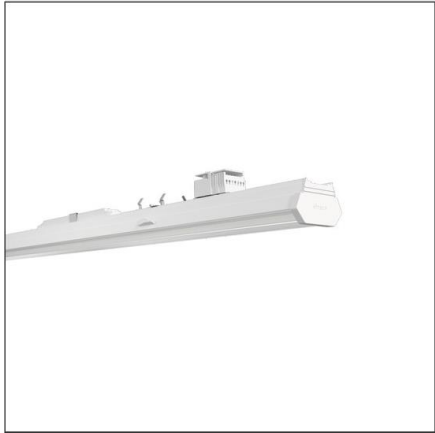
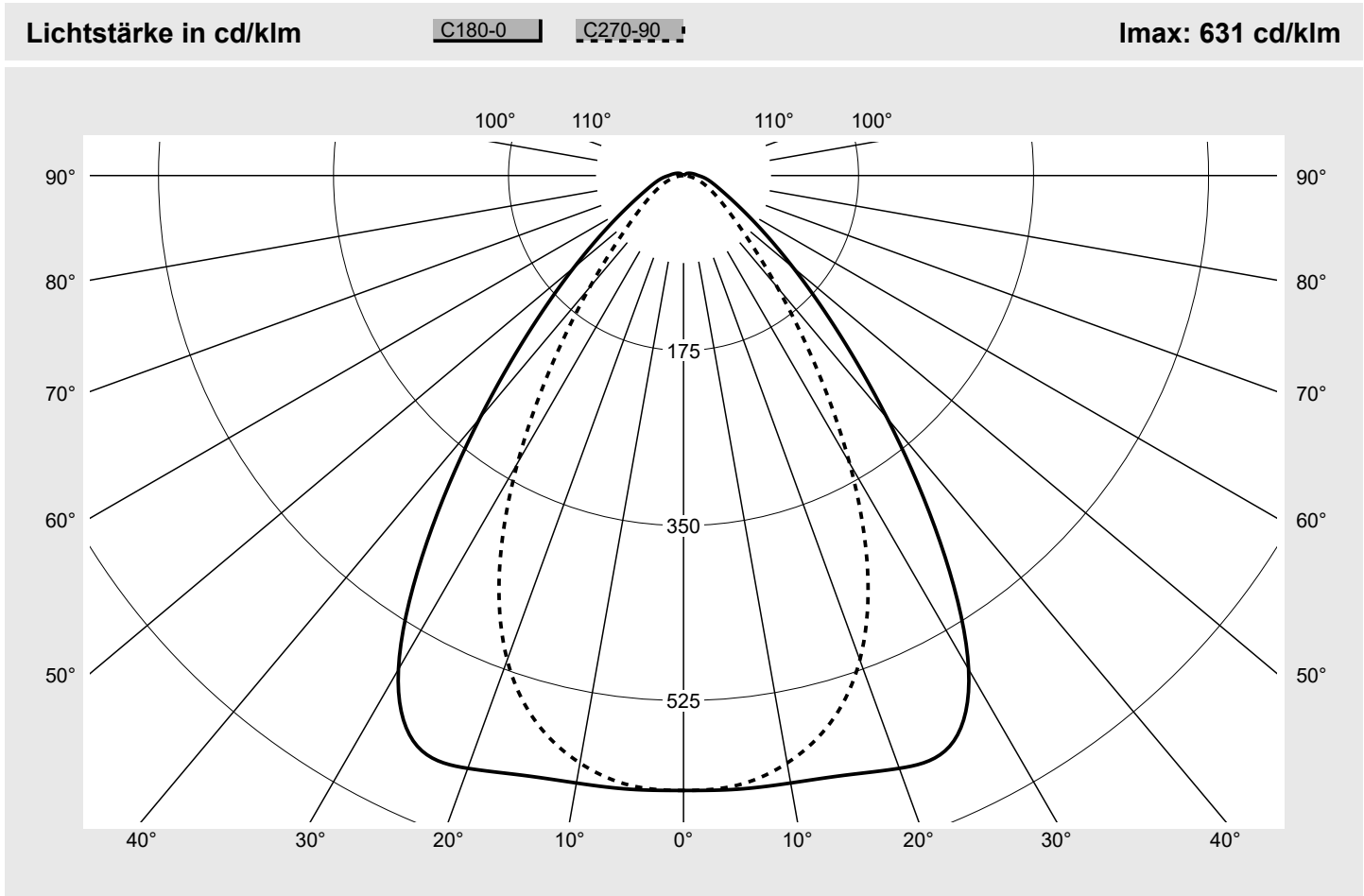


Lichttechnischer Prüfbefund

|                                                                                  |                                                               |                                                                                  |
|----------------------------------------------------------------------------------|---------------------------------------------------------------|----------------------------------------------------------------------------------|
| <b>Familie</b><br><b>Licross® 11 Protected</b>                                   | <b>Bestell-Nr.: 51TP12DN595G</b><br><b>EAN: 4069025220691</b> | <b>LP-Nummer</b><br><b>58524_296</b>                                             |
|  | <b>Ausführung</b>                                             | Prismenabdeckung, satiniert, breit strahlend                                     |
|                                                                                  | <b>Bestückung</b>                                             | LED 5000 K   CRI ≥ 80                                                            |
|                                                                                  | <b>Betriebsgerät</b>                                          | EVG-DALI                                                                         |
|                                                                                  | <b>Bemessungswerte</b>                                        | Nettolichtstrom = 9820 lm<br>Systemleistung = 57.1 W<br>Lichtausbeute = 172 lm/W |
|                                                                                  |                                                               | <b>Seriedokumentation</b><br>26.08.2024                                          |
|                                                                                  |                                                               | <b>siteco</b>                                                                    |



| Klassifizierungen |                   | Leuchtenbetriebswirkungsgrade |        |
|-------------------|-------------------|-------------------------------|--------|
| DIN 5040          | A 5 1             | $\eta_{LB}$                   | 100,0% |
| CIE               | N1=73 N2=92 N3=98 | $\phi_u$                      | 98,6%  |
|                   | N4=99 N5=100      | $\phi_o$                      | 1,4%   |

| Messbedingungen           |
|---------------------------|
| DIN EN 13032 und DIN 5032 |

Lichttechnischer Prüfbefund

|                                  |                                                 |                        |
|----------------------------------|-------------------------------------------------|------------------------|
| Familie<br>Licross® 11 Protected | Bestell-Nr.: 51TP12DN595G<br>EAN: 4069025220691 | LP-Nummer<br>58524_296 |
| Wertetabelle Lichtstärkemessung  | Maximale Lichtstärke                            | siteco                 |

| 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°           | 615.0                 | 615.0                       | 615.0                       | 615.0                       | 615.0                       | 615.0                       | 615.0       | 3.7                  | 3.7               |
| 5°           | 616.1                 | 614.1                       | 609.7                       | 611.1                       | 612.9                       | 611.9                       | 612.2       | 29.3                 | 32.9              |
| 10°          | 616.9                 | 615.1                       | 606.4                       | 602.8                       | 600.3                       | 597.0                       | 596.6       | 57.6                 | 90.5              |
| 15°          | 620.9                 | 617.8                       | 600.9                       | 587.5                       | 576.7                       | 568.6                       | 566.8       | 83.8                 | 174.3             |
| 20°          | 630.8                 | 623.5                       | 591.7                       | 561.2                       | 536.7                       | 520.1                       | 515.5       | 106.4                | 280.7             |
| 25°          | 629.8                 | 620.7                       | 576.3                       | 523.2                       | 476.9                       | 445.6                       | 435.5       | 122.6                | 403.3             |
| 30°          | 570.2                 | 568.9                       | 534.3                       | 469.6                       | 398.0                       | 348.4                       | 331.9       | 126.5                | 529.9             |
| 35°          | 447.2                 | 456.9                       | 450.2                       | 394.1                       | 307.5                       | 246.5                       | 227.0       | 114.9                | 644.8             |
| 40°          | 317.0                 | 331.0                       | 344.1                       | 303.2                       | 220.2                       | 163.1                       | 146.0       | 93.6                 | 738.3             |
| 45°          | 213.9                 | 226.3                       | 244.1                       | 214.7                       | 147.7                       | 105.6                       | 94.0        | 70.6                 | 808.9             |
| 50°          | 143.1                 | 152.0                       | 166.9                       | 144.8                       | 97.7                        | 70.8                        | 64.1        | 51.5                 | 860.4             |
| 55°          | 96.6                  | 102.1                       | 111.9                       | 95.1                        | 64.8                        | 49.7                        | 46.3        | 37.0                 | 897.4             |
| 60°          | 67.0                  | 69.6                        | 74.2                        | 63.4                        | 44.8                        | 36.0                        | 34.5        | 26.8                 | 924.2             |
| 65°          | 49.0                  | 49.5                        | 50.0                        | 42.8                        | 32.0                        | 26.6                        | 25.7        | 19.7                 | 943.9             |
| 70°          | 37.9                  | 37.0                        | 34.4                        | 29.4                        | 23.3                        | 19.5                        | 18.8        | 14.8                 | 958.7             |
| 75°          | 30.5                  | 28.7                        | 24.6                        | 20.4                        | 16.6                        | 13.6                        | 12.7        | 11.1                 | 969.8             |
| 80°          | 24.8                  | 22.7                        | 18.1                        | 14.1                        | 11.2                        | 8.8                         | 7.6         | 8.2                  | 978.0             |
| 85°          | 19.7                  | 17.8                        | 13.4                        | 9.8                         | 7.1                         | 4.8                         | 3.4         | 5.9                  | 983.8             |
| 90°          | 14.9                  | 13.4                        | 9.7                         | 6.4                         | 4.0                         | 1.9                         | 0.4         | 3.9                  | 987.8             |
| 95°          | 12.2                  | 11.1                        | 8.2                         | 5.4                         | 3.1                         | 1.2                         | 0.3         | 3.2                  | 991.0             |
| 100°         | 10.0                  | 9.2                         | 6.9                         | 4.5                         | 2.4                         | 0.7                         | 0.3         | 2.6                  | 993.6             |
| 105°         | 8.2                   | 7.6                         | 5.7                         | 3.6                         | 1.7                         | 0.4                         | 0.3         | 2.1                  | 995.6             |
| 110°         | 6.8                   | 6.2                         | 4.6                         | 2.7                         | 1.1                         | 0.3                         | 0.3         | 1.6                  | 997.2             |
| 115°         | 5.5                   | 5.0                         | 3.7                         | 2.0                         | 0.7                         | 0.4                         | 0.4         | 1.2                  | 998.4             |
| 120°         | 4.3                   | 3.8                         | 2.7                         | 1.4                         | 0.6                         | 0.5                         | 0.5         | 0.9                  | 999.3             |
| 125°         | 3.1                   | 2.7                         | 1.8                         | 0.9                         | 0.6                         | 0.6                         | 0.6         | 0.6                  | 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            |

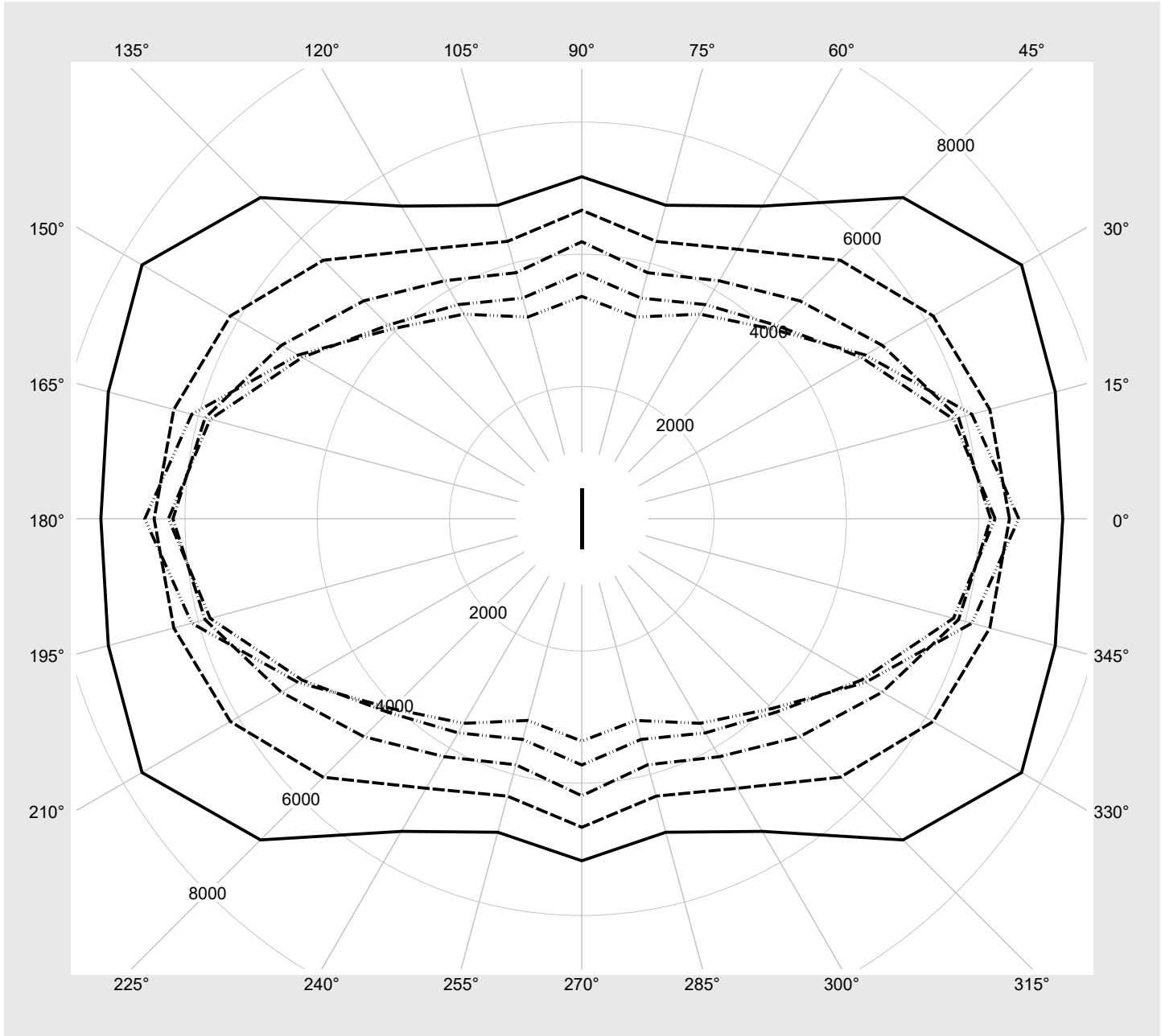
Lichttechnischer Prüfbefund

|                                  |     |                                                 |      |      |      |      |                                       |      |                        |      |      |
|----------------------------------|-----|-------------------------------------------------|------|------|------|------|---------------------------------------|------|------------------------|------|------|
| Familie<br>Licross® 11 Protected |     | Bestell-Nr.: 51TP12DN595G<br>EAN: 4069025220691 |      |      |      |      |                                       |      | LP-Nummer<br>58524_296 |      |      |
| 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  | 21,2                                            | 22,6 | 21,6 | 22,9 | 23,3 | 18,0                                  | 19,4 | 18,3                   | 19,7 | 20,0 |
|                                  | 3H  | 21,6                                            | 22,9 | 22,0 | 23,2 | 23,6 | 18,3                                  | 19,6 | 18,7                   | 19,9 | 20,3 |
|                                  | 4H  | 21,9                                            | 23,0 | 22,3 | 23,4 | 23,7 | 18,5                                  | 19,7 | 18,8                   | 20,0 | 20,4 |
|                                  | 6H  | 22,2                                            | 23,2 | 22,6 | 23,6 | 24,0 | 18,6                                  | 19,7 | 19,0                   | 20,1 | 20,4 |
|                                  | 8H  | 22,4                                            | 23,3 | 22,8 | 23,7 | 24,1 | 18,7                                  | 19,7 | 19,1                   | 20,1 | 20,5 |
|                                  | 12H | 22,6                                            | 23,4 | 23,0 | 23,8 | 24,2 | 18,7                                  | 19,6 | 19,1                   | 20,0 | 20,4 |
| 4H                               | 2H  | 21,3                                            | 22,5 | 21,7 | 22,8 | 23,2 | 18,5                                  | 19,6 | 18,9                   | 20,0 | 20,4 |
|                                  | 3H  | 21,8                                            | 22,8 | 22,2 | 23,2 | 23,6 | 19,0                                  | 19,9 | 19,4                   | 20,3 | 20,7 |
|                                  | 4H  | 22,1                                            | 23,0 | 22,6 | 23,4 | 23,9 | 19,2                                  | 20,1 | 19,6                   | 20,5 | 20,9 |
|                                  | 6H  | 22,6                                            | 23,3 | 23,0 | 23,7 | 24,2 | 19,4                                  | 20,1 | 19,8                   | 20,6 | 21,0 |
|                                  | 8H  | 22,8                                            | 23,5 | 23,3 | 23,9 | 24,4 | 19,4                                  | 20,1 | 19,9                   | 20,6 | 21,1 |
|                                  | 12H | 23,1                                            | 23,6 | 23,6 | 24,1 | 24,6 | 19,5                                  | 20,1 | 20,0                   | 20,6 | 21,1 |
| 8H                               | 4H  | 22,2                                            | 22,9 | 22,6 | 23,3 | 23,8 | 19,4                                  | 20,1 | 19,9                   | 20,5 | 21,0 |
|                                  | 6H  | 22,7                                            | 23,2 | 23,2 | 23,7 | 24,2 | 19,7                                  | 20,2 | 20,2                   | 20,7 | 21,2 |
|                                  | 8H  | 23,0                                            | 23,5 | 23,5 | 24,0 | 24,5 | 19,8                                  | 20,3 | 20,3                   | 20,8 | 21,3 |
|                                  | 12H | 23,4                                            | 23,8 | 23,9 | 24,3 | 24,8 | 19,9                                  | 20,3 | 20,4                   | 20,8 | 21,4 |
| 12H                              | 4H  | 22,2                                            | 22,8 | 22,6 | 23,2 | 23,7 | 19,5                                  | 20,0 | 20,0                   | 20,5 | 21,0 |
|                                  | 6H  | 22,7                                            | 23,2 | 23,2 | 23,6 | 24,2 | 19,8                                  | 20,3 | 20,3                   | 20,7 | 21,3 |
|                                  | 8H  | 23,0                                            | 23,4 | 23,5 | 23,9 | 24,5 | 19,9                                  | 20,3 | 20,5                   | 20,8 | 21,4 |

|                       |          |                                 |                             |                                    |                             |                             |                             |                             |
|-----------------------|----------|---------------------------------|-----------------------------|------------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Leuchtdichten-Tabelle |          | Max. für $\gamma \geq 65^\circ$ |                             | 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          | $\gamma$ | 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°                   |          | 22059.8                         | 23445.1                     | 25661.0                            | 23103.3                     | 16399.1                     | 12180.7                     | 11312.6                     |
| 50°                   |          | 15795.3                         | 16878.2                     | 18850.5                            | 16807.3                     | 11762.2                     | 8908.2                      | 8477.5                      |
| 55°                   |          | 11567.2                         | 12307.3                     | 13755.5                            | 12071.8                     | 8588.9                      | 6938.1                      | 6867.7                      |
| 60°                   |          | 8850.8                          | 9258.4                      | 10102.1                            | 8955.0                      | 6653.5                      | 5705.0                      | 5862.9                      |
| 65°                   |          | 7272.1                          | 7411.7                      | 7678.2                             | 6869.7                      | 5459.7                      | 4908.7                      | 5172.8                      |
| 70°                   |          | 6466.8                          | 6386.9                      | 6134.7                             | 5528.8                      | 4706.7                      | 4343.4                      | 4666.2                      |
| 75°                   |          | 6182.3                          | 5897.4                      | 5245.7                             | 4661.0                      | 4155.9                      | 3852.1                      | 4189.5                      |
| 80°                   |          | 6249.8                          | 5817.5                      | 4881.6                             | 4141.6                      | 3739.4                      | 3455.3                      | 3724.5                      |
| 85°                   |          | 6607.7                          | 6105.8                      | 4951.6                             | 4060.8                      | 3572.7                      | 3158.1                      | 3363.4                      |

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|                                                                                                                                 |                                                               |                                      |               |
|---------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|--------------------------------------|---------------|
| <b>Familie</b><br><b>Licross® 11 Protected</b>                                                                                  | <b>Bestell-Nr.: 51TP12DN595G</b><br><b>EAN: 4069025220691</b> | <b>LP-Nummer</b><br><b>58524_296</b> |               |
| <b>Leuchtdichten in cd/m²</b> <div> <div>γ 65°</div> <div>γ 70°</div> <div>γ 75°</div> <div>γ 80°</div> <div>γ 85°</div> </div> |                                                               |                                      | <b>siteco</b> |



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|                                                            |                                                            |                                   |
|------------------------------------------------------------|------------------------------------------------------------|-----------------------------------|
| <p>Familie</p> <p>Licross® 11 Protected</p>                | <p>Bestell-Nr.: 51TP12DN595G</p> <p>EAN: 4069025220691</p> | <p>LP-Nummer</p> <p>58524_296</p> |
| <p>Dimmstufen-Tabelle</p> <p>Umgebungstemperatur: 25°C</p> |                                                            | <p>siteco</p>                     |

| Lichtstrom [%] | Dimmstufe linear | Dimmstufe logarithmisch | Lichtstrom [lm] | Systemleistung [W] |
|----------------|------------------|-------------------------|-----------------|--------------------|
| 100            | 254              | 254                     | 9820            | 57.1               |
| 95             | 240              | 252                     | 9321            | 53.8               |
| 90             | 227              | 250                     | 8855            | 50.9               |
| 85             | 213              | 248                     | 8344            | 47.7               |
| 80             | 200              | 245                     | 7869            | 44.8               |
| 75             | 186              | 243                     | 7352            | 41.7               |
| 70             | 173              | 240                     | 6866            | 38.7               |
| 65             | 160              | 237                     | 6377            | 35.9               |
| 60             | 147              | 234                     | 5884            | 33.0               |
| 55             | 134              | 231                     | 5387            | 30.1               |
| 50             | 122              | 227                     | 4922            | 27.5               |
| 45             | 109              | 223                     | 4416            | 24.7               |
| 40             | 97               | 219                     | 3946            | 22.2               |
| 35             | 84               | 213                     | 3432            | 19.5               |
| 30             | 72               | 208                     | 2950            | 17.0               |
| 25             | 60               | 201                     | 2468            | 14.5               |
| 20             | 48               | 193                     | 1981            | 11.9               |
| 15             | 36               | 182                     | 1491            | 9.4                |
| 10             | 24               | 168                     | 995             | 6.9                |
| 5              | 12               | 142                     | 494             | 4.5                |
| 2              | 4                | 102                     | 159             | 3.0                |