

Lichttechnischer Prüfbefund

**Familie**  
**Licross® 11 Performance**

**Bestell-Nr.: 51TD16VN445G**  
**EAN: 4058352971130**

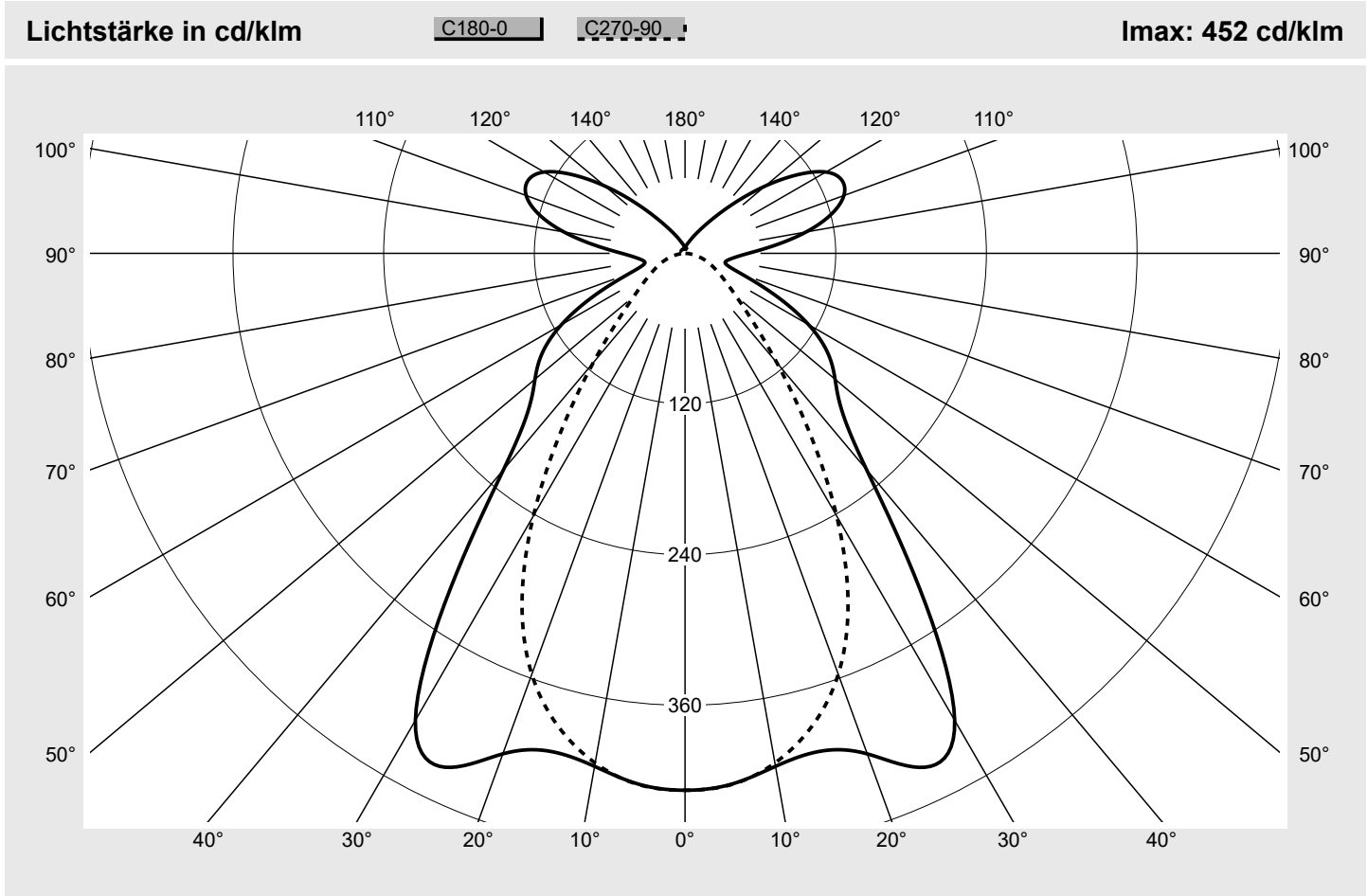
**LP-Nummer**  
**58520\_388**



**Ausführung** Abdeckung satiniert, direkt-/ indirekt strahlend,  
UGR≤19 (L65≤3000cd/m²)  
**Bestückung** LED 4000 K | CRI ≥ 80  
**Betriebsgerät** EVG-DALI CLO  
**Bemessungswerte** Nettolichtstrom = 4500 lm  
Systemleistung = 24.2 W  
Lichtausbeute = 186 lm/W

**Seriendokumentation**  
**20.02.2024**





| Klassifizierungen |                   | Leuchtenbetriebswirkungsgrade |        |
|-------------------|-------------------|-------------------------------|--------|
| DIN 5040          | B 5 1             | ηLB                           | 100,0% |
| CIE               | N1=65 N2=88 N3=96 | φ <sub>u</sub>                | 79,3%  |
|                   | N4=79 N5=100      | φ <sub>o</sub>                | 20,7%  |

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

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|                                    |                                                 |                        |
|------------------------------------|-------------------------------------------------|------------------------|
| Familie<br>Licross® 11 Performance | Bestell-Nr.: 51TD16VN445G<br>EAN: 4058352971130 | LP-Nummer<br>58520_388 |
| 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°           | 427.7                 | 427.7                       | 427.7                       | 427.7                       | 427.7                       | 427.7                       | 427.7       | 2.6                  | 2.6               |
| 5°           | 424.4                 | 422.4                       | 420.2                       | 422.1                       | 424.3                       | 424.4                       | 424.8       | 20.2                 | 22.8              |
| 10°          | 414.9                 | 412.5                       | 408.9                       | 409.5                       | 411.2                       | 411.6                       | 412.2       | 39.1                 | 61.9              |
| 15°          | 410.8                 | 406.7                       | 398.1                       | 393.2                       | 390.9                       | 389.7                       | 390.1       | 56.3                 | 118.2             |
| 20°          | 424.3                 | 415.5                       | 394.5                       | 375.8                       | 364.0                       | 357.7                       | 356.8       | 71.8                 | 190.0             |
| 25°          | 451.7                 | 439.9                       | 403.9                       | 360.3                       | 329.2                       | 311.6                       | 307.2       | 85.9                 | 275.8             |
| 30°          | 429.5                 | 430.9                       | 412.5                       | 347.4                       | 284.5                       | 251.0                       | 241.5       | 94.2                 | 370.0             |
| 35°          | 325.6                 | 344.5                       | 379.3                       | 329.0                       | 231.5                       | 183.8                       | 171.0       | 89.9                 | 460.0             |
| 40°          | 224.9                 | 238.5                       | 293.1                       | 289.7                       | 177.2                       | 125.7                       | 113.8       | 76.0                 | 535.9             |
| 45°          | 176.4                 | 174.8                       | 199.5                       | 224.7                       | 128.0                       | 84.3                        | 75.7        | 60.6                 | 596.5             |
| 50°          | 156.0                 | 144.3                       | 136.6                       | 154.2                       | 90.2                        | 58.9                        | 53.2        | 48.2                 | 644.7             |
| 55°          | 139.0                 | 122.9                       | 98.4                        | 99.7                        | 63.9                        | 43.4                        | 39.8        | 38.7                 | 683.4             |
| 60°          | 113.7                 | 99.1                        | 72.2                        | 64.7                        | 46.3                        | 33.0                        | 30.8        | 30.7                 | 714.1             |
| 65°          | 79.7                  | 70.2                        | 51.6                        | 43.8                        | 34.5                        | 25.6                        | 24.0        | 23.0                 | 737.1             |
| 70°          | 47.7                  | 43.4                        | 35.6                        | 31.1                        | 26.2                        | 19.7                        | 18.2        | 16.2                 | 753.3             |
| 75°          | 33.9                  | 31.2                        | 26.1                        | 23.2                        | 19.9                        | 14.4                        | 12.7        | 12.2                 | 765.5             |
| 80°          | 33.7                  | 30.7                        | 23.7                        | 18.2                        | 15.1                        | 9.9                         | 7.5         | 10.6                 | 776.1             |
| 85°          | 39.3                  | 35.6                        | 26.3                        | 17.2                        | 11.4                        | 6.2                         | 3.2         | 10.7                 | 786.9             |
| 90°          | 50.4                  | 45.6                        | 32.3                        | 18.9                        | 10.0                        | 3.9                         | 0.6         | 12.4                 | 799.3             |
| 95°          | 71.3                  | 63.5                        | 42.3                        | 22.5                        | 11.4                        | 4.6                         | 1.0         | 16.4                 | 815.7             |
| 100°         | 97.9                  | 84.6                        | 52.5                        | 26.5                        | 12.9                        | 5.3                         | 1.6         | 20.8                 | 836.6             |
| 105°         | 120.7                 | 101.7                       | 62.6                        | 30.2                        | 14.2                        | 6.1                         | 2.4         | 24.4                 | 860.9             |
| 110°         | 134.6                 | 112.6                       | 69.4                        | 33.2                        | 15.3                        | 6.7                         | 2.9         | 26.3                 | 887.2             |
| 115°         | 137.8                 | 115.5                       | 72.0                        | 34.6                        | 16.0                        | 7.2                         | 3.2         | 26.1                 | 913.3             |
| 120°         | 129.6                 | 108.9                       | 68.7                        | 33.6                        | 15.7                        | 7.4                         | 3.5         | 23.8                 | 937.1             |
| 125°         | 109.1                 | 92.2                        | 59.5                        | 30.3                        | 14.7                        | 7.4                         | 3.7         | 19.5                 | 956.6             |
| 130°         | 83.4                  | 71.0                        | 47.4                        | 25.5                        | 13.2                        | 7.2                         | 3.7         | 14.5                 | 971.2             |
| 135°         | 58.6                  | 50.3                        | 35.1                        | 20.5                        | 11.4                        | 6.8                         | 3.7         | 10.0                 | 981.2             |
| 140°         | 39.2                  | 34.3                        | 25.3                        | 16.3                        | 9.8                         | 6.3                         | 3.7         | 6.7                  | 987.9             |
| 145°         | 26.6                  | 23.8                        | 18.6                        | 13.0                        | 8.2                         | 5.4                         | 3.7         | 4.4                  | 992.3             |
| 150°         | 18.7                  | 17.2                        | 14.2                        | 10.0                        | 6.9                         | 5.0                         | 3.7         | 2.9                  | 995.2             |
| 155°         | 13.8                  | 12.8                        | 10.8                        | 7.8                         | 6.8                         | 4.4                         | 3.6         | 2.0                  | 997.2             |
| 160°         | 10.2                  | 9.8                         | 7.9                         | 6.8                         | 5.6                         | 4.6                         | 3.5         | 1.3                  | 998.5             |
| 165°         | 8.2                   | 7.8                         | 6.5                         | 5.6                         | 5.0                         | 4.1                         | 3.7         | 0.8                  | 999.3             |
| 170°         | 6.4                   | 5.6                         | 4.7                         | 4.7                         | 5.0                         | 4.1                         | 3.9         | 0.5                  | 999.8             |
| 175°         | 4.2                   | 3.7                         | 4.1                         | 4.1                         | 4.1                         | 4.2                         | 4.2         | 0.2                  | 1000.0            |
| 180°         | 3.7                   | 3.7                         | 3.7                         | 3.7                         | 3.7                         | 3.7                         | 3.7         | 0.0                  | 1000.0            |

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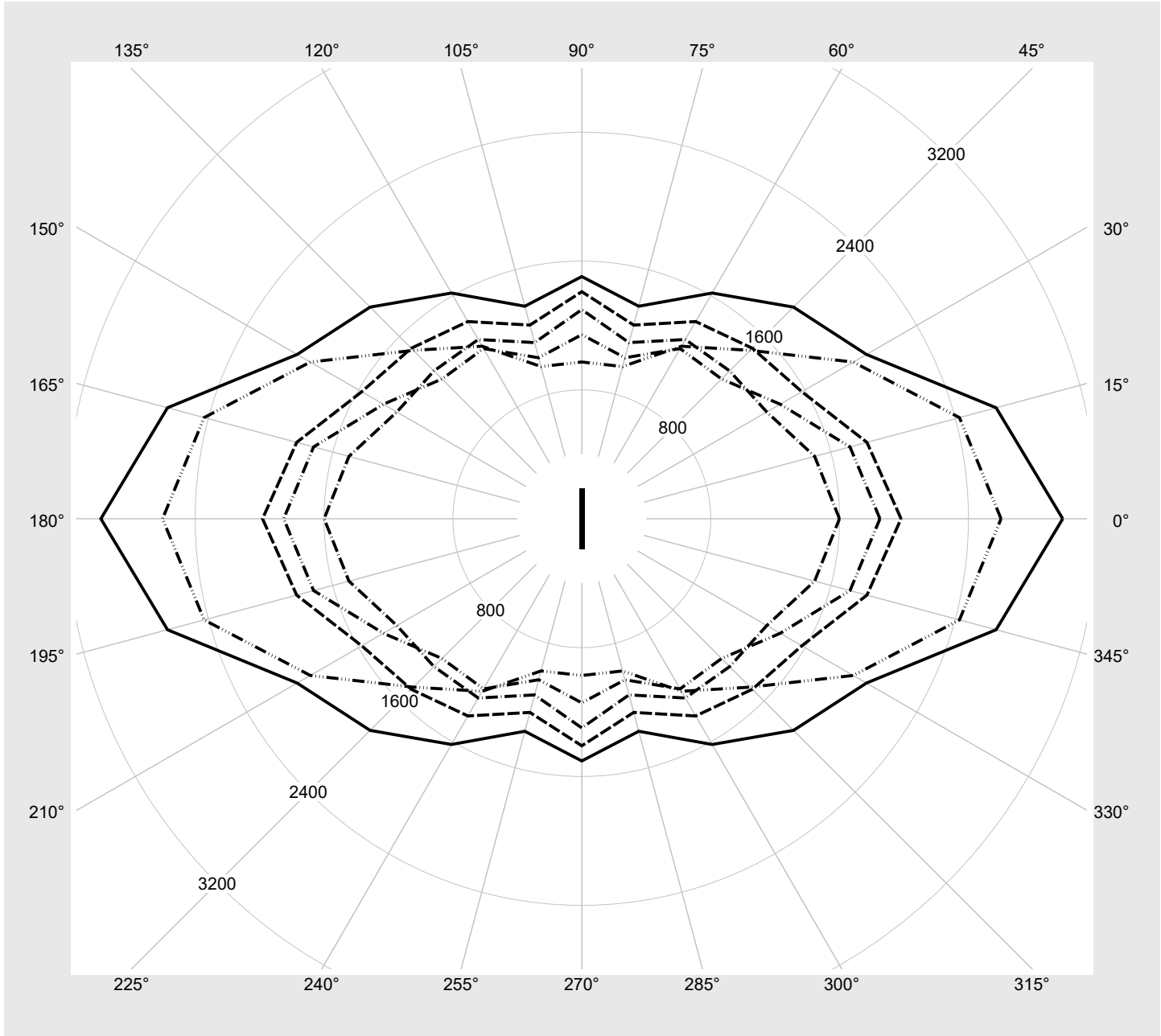
|                                    |     |                                     |                                                 |      |      |      |                                       |      |              |                        |        |     |
|------------------------------------|-----|-------------------------------------|-------------------------------------------------|------|------|------|---------------------------------------|------|--------------|------------------------|--------|-----|
| Familie<br>Licross® 11 Performance |     |                                     | Bestell-Nr.: 51TD16VN445G<br>EAN: 4058352971130 |      |      |      |                                       |      |              | LP-Nummer<br>58520_388 |        |     |
| 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  | 16,3                                | 17,6                                            | 16,9 | 18,1 | 18,8 | 12,5                                  | 13,8 | 13,1         | 14,3                   | 15,0   |     |
|                                    | 3H  | 16,9                                | 18,0                                            | 17,5 | 18,6 | 19,3 | 12,9                                  | 14,0 | 13,5         | 14,6                   | 15,3   |     |
|                                    | 4H  | 17,1                                | 18,1                                            | 17,7 | 18,7 | 19,4 | 13,1                                  | 14,2 | 13,7         | 14,8                   | 15,5   |     |
|                                    | 6H  | 17,3                                | 18,2                                            | 18,0 | 18,9 | 19,6 | 13,3                                  | 14,2 | 13,9         | 14,8                   | 15,6   |     |
|                                    | 8H  | 17,6                                | 18,4                                            | 18,3 | 19,0 | 19,8 | 13,2                                  | 14,1 | 13,9         | 14,8                   | 15,5   |     |
|                                    | 12H | 17,9                                | 18,6                                            | 18,6 | 19,3 | 20,1 | 13,3                                  | 14,1 | 13,9         | 14,8                   | 15,5   |     |
| 4H                                 | 2H  | 16,3                                | 17,4                                            | 16,9 | 18,0 | 18,7 | 13,0                                  | 14,0 | 13,6         | 14,6                   | 15,3   |     |
|                                    | 3H  | 17,0                                | 17,8                                            | 17,6 | 18,5 | 19,3 | 13,5                                  | 14,4 | 14,2         | 15,0                   | 15,8   |     |
|                                    | 4H  | 17,2                                | 18,0                                            | 17,9 | 18,7 | 19,5 | 13,8                                  | 14,6 | 14,5         | 15,3                   | 16,1   |     |
|                                    | 6H  | 17,7                                | 18,3                                            | 18,4 | 19,0 | 19,9 | 14,0                                  | 14,7 | 14,7         | 15,4                   | 16,2   |     |
|                                    | 8H  | 18,0                                | 18,6                                            | 18,7 | 19,3 | 20,2 | 14,1                                  | 14,7 | 14,8         | 15,4                   | 16,3   |     |
|                                    | 12H | 18,5                                | 19,0                                            | 19,3 | 19,8 | 20,7 | 14,1                                  | 14,7 | 14,9         | 15,4                   | 16,3   |     |
| 8H                                 | 4H  | 17,2                                | 17,8                                            | 17,9 | 18,5 | 19,4 | 14,0                                  | 14,6 | 14,7         | 15,3                   | 16,1   |     |
|                                    | 6H  | 17,8                                | 18,3                                            | 18,5 | 19,0 | 19,9 | 14,4                                  | 14,8 | 15,1         | 15,6                   | 16,5   |     |
|                                    | 8H  | 18,3                                | 18,7                                            | 19,0 | 19,5 | 20,3 | 14,5                                  | 15,0 | 15,3         | 15,7                   | 16,6   |     |
|                                    | 12H | 19,0                                | 19,4                                            | 19,8 | 20,2 | 21,1 | 14,6                                  | 15,0 | 15,4         | 15,8                   | 16,7   |     |
| 12H                                | 4H  | 17,1                                | 17,7                                            | 17,9 | 18,4 | 19,3 | 14,0                                  | 14,5 | 14,8         | 15,2                   | 16,1   |     |
|                                    | 6H  | 17,7                                | 18,2                                            | 18,5 | 18,9 | 19,8 | 14,5                                  | 14,9 | 15,2         | 15,6                   | 16,6   |     |
|                                    | 8H  | 18,3                                | 18,7                                            | 19,1 | 19,4 | 20,4 | 14,7                                  | 15,1 | 15,5         | 15,8                   | 16,8   |     |

|                       |          |                                 |                             |                                       |                             |                             |                             |                             |
|-----------------------|----------|---------------------------------|-----------------------------|---------------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Leuchtdichten-Tabelle |          | Max. für $\gamma \geq 65^\circ$ |                             | Lichttechnische<br>Abmessungen in mm: |                             | L = 1480<br>B = 115         | H(C0) = 36<br>H(C90) = 0    | H(C180) = 36<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°                   |          | 5023.8                          | 5018.4                      | 5868.8                                | 6879.2                      | 4139.9                      | 2916.3                      | 2828.9                      |
| 50°                   |          | 4673.3                          | 4361.9                      | 4245.2                                | 5019.1                      | 3127.8                      | 2210.6                      | 2187.0                      |
| 55°                   |          | 4427.7                          | 3957.5                      | 3270.4                                | 3492.8                      | 2407.2                      | 1793.0                      | 1833.6                      |
| 60°                   |          | 3898.2                          | 3440.1                      | 2596.9                                | 2473.4                      | 1928.0                      | 1532.5                      | 1628.5                      |
| 65°                   |          | 2985.1                          | 2662.3                      | 2040.1                                | 1858.2                      | 1618.1                      | 1365.9                      | 1503.6                      |
| 70°                   |          | 1981.6                          | 1832.2                      | 1577.3                                | 1497.1                      | 1413.8                      | 1244.8                      | 1409.5                      |
| 75°                   |          | 1599.3                          | 1496.2                      | 1325.8                                | 1297.9                      | 1285.1                      | 1132.2                      | 1298.5                      |
| 80°                   |          | 1850.5                          | 1723.3                      | 1422.0                                | 1227.1                      | 1220.0                      | 1034.8                      | 1143.0                      |
| 85°                   |          | 2602.2                          | 2426.8                      | 1945.7                                | 1478.4                      | 1236.9                      | 978.2                       | 973.2                       |

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|                                                                                                   |                                                               |                                      |
|---------------------------------------------------------------------------------------------------|---------------------------------------------------------------|--------------------------------------|
| <b>Familie</b><br><b>Licross® 11 Performance</b>                                                  | <b>Bestell-Nr.: 51TD16VN445G</b><br><b>EAN: 4058352971130</b> | <b>LP-Nummer</b><br><b>58520_388</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> |                                                               |                                      |

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



| Lichtstrom [%] | Dimmstufe linear | Dimmstufe logarithmisch | Lichtstrom [lm] | Systemleistung [W] Lebensdauerbeginn | Systemleistung [W] Lebensdauerende | Systemleistung [W] Durchschnitt |
|----------------|------------------|-------------------------|-----------------|--------------------------------------|------------------------------------|---------------------------------|
| 100            | 254              | 254                     | 4500            | 24.2                                 | 26.4                               | 25.3                            |
| 95             | 241              | 252                     | 4277            | 23.1                                 | 25.1                               | 24.1                            |
| 90             | 228              | 250                     | 4054            | 21.9                                 | 23.9                               | 22.9                            |
| 85             | 215              | 248                     | 3830            | 20.7                                 | 22.7                               | 21.7                            |
| 80             | 202              | 246                     | 3605            | 19.6                                 | 21.4                               | 20.5                            |
| 75             | 189              | 243                     | 3380            | 18.4                                 | 20.1                               | 19.2                            |
| 70             | 176              | 241                     | 3152            | 17.2                                 | 18.7                               | 18.0                            |
| 65             | 163              | 238                     | 2923            | 16.0                                 | 17.4                               | 16.7                            |
| 60             | 150              | 235                     | 2694            | 14.8                                 | 16.1                               | 15.4                            |
| 55             | 138              | 232                     | 2482            | 13.7                                 | 14.9                               | 14.3                            |
| 50             | 125              | 228                     | 2252            | 12.4                                 | 13.6                               | 13.0                            |
| 45             | 112              | 224                     | 2022            | 11.2                                 | 12.2                               | 11.7                            |
| 40             | 100              | 220                     | 1807            | 10.1                                 | 11.0                               | 10.6                            |
| 35             | 87               | 215                     | 1575            | 9.0                                  | 9.8                                | 9.4                             |
| 30             | 74               | 209                     | 1341            | 7.8                                  | 8.5                                | 8.2                             |
| 25             | 62               | 202                     | 1125            | 6.7                                  | 7.3                                | 7.0                             |
| 20             | 50               | 194                     | 905             | 5.6                                  | 6.0                                | 5.8                             |
| 15             | 37               | 183                     | 668             | 4.3                                  | 4.6                                | 4.4                             |
| 10             | 26               | 171                     | 467             | 3.2                                  | 3.4                                | 3.3                             |