

Lichttechnischer Prüfbefund

Familie
Licross® 11 Protected



Bestell-Nr.: 51TP12CN4EXM
EAN: 4058352930267

LP-Nummer
58523_224

Ausführung Prismenabdeckung, satiniert, breit strahlend
Bestückung LED 4000 K | CRI ≥ 80
Betriebsgerät EVG-Multilumen CLOi
Bemessungswerte Nettolichtstrom = 14240 lm
 Systemleistung = 77.6 W
 Lichtausbeute = 183.5 lm/W

Seriendokumentation
12.10.2023

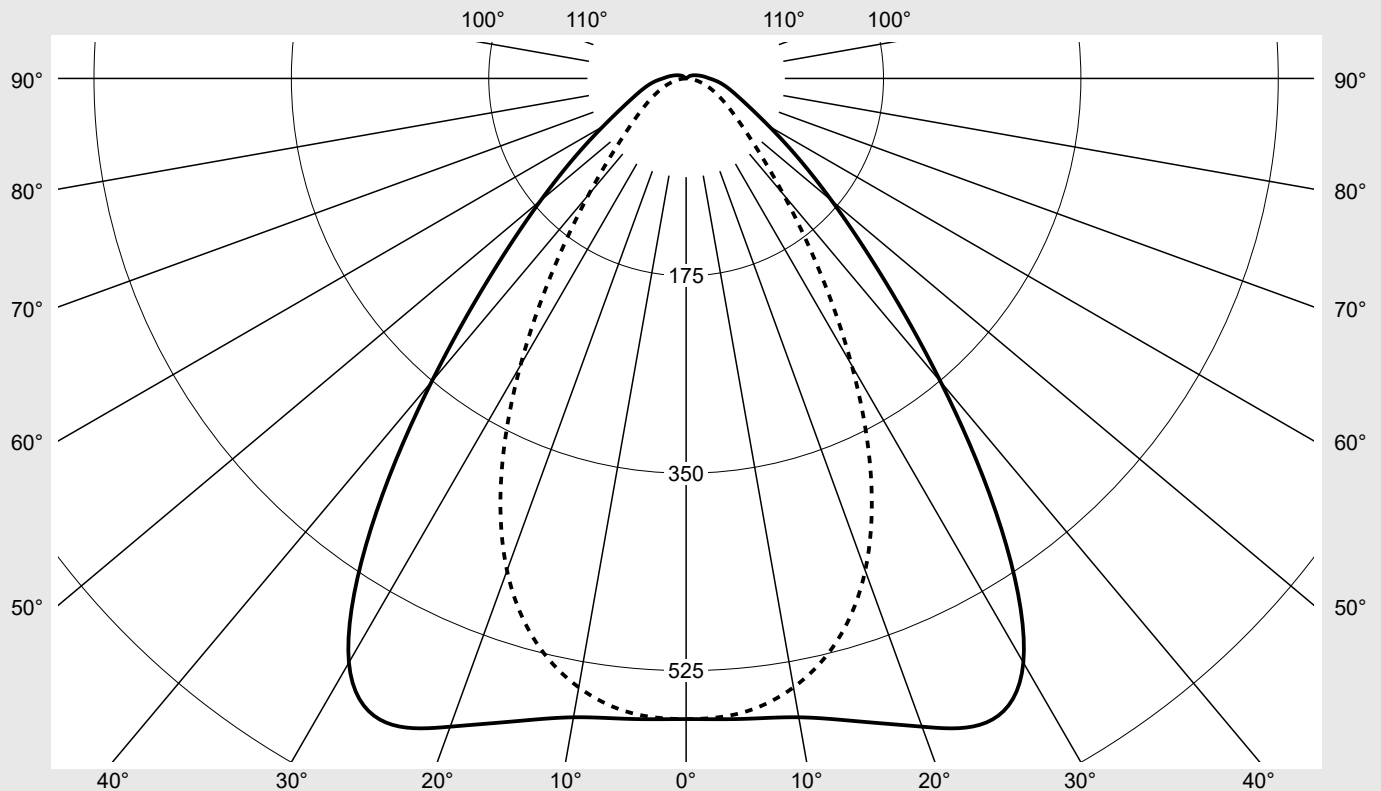
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Lichtstärke in cd/klm

C180-0

C270-90

Imax: 630 cd/klm



Klassifizierungen

DIN 5040 A 5 1
 CIE N1=70 N2=91 N3=97
 N4=98 N5=100

Leuchtenbetriebswirkungsgrade

η_{LB} 100,0%
 ϕ_u 98,3%
 ϕ_o 1,7%

Messbedingungen

DIN EN 13032 und DIN 5032

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| | | |
|---|---|--------------------------------------|
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| Wertetabelle Lichtstärkemessung | | Maximale Lichtstärke |
| | | sITeco |

| C- Ebenen | 0° 180° | 15° | 30° | 45° | 60° | 75° | 90° 270° | Phi-Zone | Summe Phi-Zone |
|-----------------------|------------|----------------------|----------------------|----------------------|----------------------|----------------------|-------------|----------------------|-------------------|
| | | 165° 195° 345° | 150° 210° 330° | 135° 225° 315° | 120° 240° 300° | 105° 255° 285° | | | |
| Lichtstärke in cd/klm | | | | | | | | Lichtstrom in lm/klm | |
| γ | | | | | | | | | |
| 0° | 568.0 | 568.0 | 568.0 | 568.0 | 568.0 | 568.0 | 568.0 | 3.4 | 3.4 |
| 5° | 570.0 | 568.0 | 563.9 | 564.4 | 565.6 | 564.2 | 564.6 | 27.0 | 30.4 |
| 10° | 575.1 | 572.9 | 563.4 | 557.9 | 553.3 | 549.0 | 548.2 | 53.3 | 83.7 |
| 15° | 590.1 | 586.0 | 566.8 | 548.5 | 532.2 | 519.9 | 516.5 | 78.2 | 161.9 |
| 20° | 611.6 | 603.6 | 568.7 | 531.0 | 496.5 | 471.9 | 464.3 | 100.3 | 262.2 |
| 25° | 630.0 | 617.6 | 564.2 | 499.9 | 441.6 | 401.0 | 387.5 | 117.1 | 379.3 |
| 30° | 598.0 | 589.4 | 536.5 | 452.4 | 368.0 | 311.9 | 293.8 | 123.5 | 502.8 |
| 35° | 487.1 | 490.1 | 463.2 | 383.1 | 284.6 | 222.1 | 203.0 | 114.7 | 617.4 |
| 40° | 351.1 | 360.8 | 359.1 | 297.2 | 205.7 | 150.3 | 134.3 | 94.9 | 712.3 |
| 45° | 241.7 | 250.7 | 257.1 | 211.9 | 140.4 | 100.6 | 89.9 | 72.8 | 785.1 |
| 50° | 168.3 | 174.0 | 178.9 | 144.5 | 94.4 | 69.8 | 63.7 | 54.4 | 839.5 |
| 55° | 118.9 | 121.8 | 123.3 | 97.4 | 64.6 | 50.4 | 47.5 | 40.5 | 880.0 |
| 60° | 85.1 | 85.8 | 84.4 | 66.1 | 45.7 | 37.4 | 36.1 | 30.1 | 910.0 |
| 65° | 63.8 | 62.6 | 58.2 | 45.7 | 33.4 | 28.1 | 27.2 | 22.6 | 932.7 |
| 70° | 50.4 | 47.7 | 40.8 | 32.1 | 24.8 | 20.7 | 19.9 | 17.3 | 949.9 |
| 75° | 41.3 | 37.6 | 29.5 | 22.7 | 17.9 | 14.5 | 13.5 | 13.2 | 963.2 |
| 80° | 34.0 | 30.0 | 21.9 | 15.9 | 12.4 | 9.4 | 8.0 | 10.0 | 973.1 |
| 85° | 27.2 | 23.7 | 16.4 | 11.2 | 8.0 | 5.3 | 3.6 | 7.3 | 980.4 |
| 90° | 20.7 | 17.9 | 12.0 | 7.4 | 4.6 | 2.2 | 0.4 | 5.0 | 985.4 |
| 95° | 16.6 | 14.7 | 10.2 | 6.3 | 3.6 | 1.3 | 0.3 | 4.0 | 989.4 |
| 100° | 13.2 | 11.9 | 8.5 | 5.2 | 2.7 | 0.8 | 0.3 | 3.2 | 992.6 |
| 105° | 10.4 | 9.5 | 6.9 | 4.1 | 1.9 | 0.4 | 0.3 | 2.5 | 995.1 |
| 110° | 8.2 | 7.4 | 5.5 | 3.1 | 1.2 | 0.3 | 0.3 | 1.9 | 997.0 |
| 115° | 6.5 | 5.8 | 4.2 | 2.2 | 0.7 | 0.4 | 0.4 | 1.4 | 998.4 |
| 120° | 4.9 | 4.3 | 3.0 | 1.4 | 0.6 | 0.5 | 0.5 | 1.0 | 999.4 |
| 125° | 3.5 | 3.0 | 2.0 | 0.9 | 0.6 | 0.5 | 0.5 | 0.7 | 1000.0 |
| 130° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1000.0 |
| 135° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1000.0 |
| 140° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1000.0 |
| 145° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1000.0 |
| 150° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1000.0 |
| 155° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1000.0 |
| 160° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1000.0 |
| 165° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1000.0 |
| 170° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1000.0 |
| 175° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1000.0 |
| 180° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1000.0 |

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|---|---|-------------------------------|

| UGR-Tabelle | | Standardraum | | | | | | | | | |
|-----------------|-----|-------------------------------------|------|------|------|------|---------------------------------------|------|------|------|------|
| Raumabmessungen | | Blickrichtung quer zur Leuchte (C0) | | | | | Blickrichtung längs zur Leuchte (C90) | | | | |
| x | y | | | | | | | | | | |
| 2H | 2H | 23,2 | 24,7 | 23,6 | 25,0 | 25,3 | 19,0 | 20,5 | 19,4 | 20,8 | 21,1 |
| | 3H | 23,8 | 25,1 | 24,2 | 25,4 | 25,8 | 19,5 | 20,8 | 19,8 | 21,1 | 21,5 |
| | 4H | 24,1 | 25,3 | 24,5 | 25,7 | 26,0 | 19,6 | 20,9 | 20,0 | 21,2 | 21,6 |
| | 6H | 24,6 | 25,6 | 25,0 | 26,0 | 26,4 | 19,8 | 20,9 | 20,2 | 21,3 | 21,7 |
| | 8H | 24,9 | 25,8 | 25,3 | 26,2 | 26,6 | 19,9 | 20,9 | 20,3 | 21,3 | 21,7 |
| | 12H | 25,1 | 25,9 | 25,5 | 26,3 | 26,8 | 19,9 | 20,9 | 20,3 | 21,3 | 21,7 |
| 4H | 2H | 23,2 | 24,5 | 23,6 | 24,8 | 25,2 | 19,7 | 20,9 | 20,1 | 21,2 | 21,6 |
| | 3H | 24,0 | 25,0 | 24,4 | 25,4 | 25,8 | 20,3 | 21,3 | 20,7 | 21,7 | 22,1 |
| | 4H | 24,4 | 25,3 | 24,9 | 25,7 | 26,2 | 20,5 | 21,4 | 21,0 | 21,8 | 22,3 |
| | 6H | 25,0 | 25,8 | 25,5 | 26,2 | 26,7 | 20,7 | 21,5 | 21,2 | 22,0 | 22,4 |
| | 8H | 25,3 | 26,0 | 25,8 | 26,5 | 26,9 | 20,8 | 21,5 | 21,3 | 22,0 | 22,5 |
| | 12H | 25,7 | 26,3 | 26,2 | 26,7 | 27,2 | 20,9 | 21,5 | 21,4 | 22,0 | 22,5 |
| 8H | 4H | 24,4 | 25,2 | 24,9 | 25,6 | 26,1 | 20,8 | 21,5 | 21,3 | 22,0 | 22,5 |
| | 6H | 25,1 | 25,7 | 25,6 | 26,2 | 26,7 | 21,2 | 21,7 | 21,7 | 22,2 | 22,7 |
| | 8H | 25,5 | 26,0 | 26,0 | 26,5 | 27,0 | 21,3 | 21,8 | 21,8 | 22,3 | 22,8 |
| | 12H | 26,0 | 26,4 | 26,5 | 26,9 | 27,5 | 21,4 | 21,8 | 21,9 | 22,3 | 22,9 |
| 12H | 4H | 24,4 | 25,1 | 24,9 | 25,5 | 26,0 | 20,9 | 21,5 | 21,4 | 22,0 | 22,5 |
| | 6H | 25,1 | 25,6 | 25,6 | 26,1 | 26,6 | 21,3 | 21,8 | 21,8 | 22,3 | 22,8 |
| | 8H | 25,5 | 26,0 | 26,0 | 26,5 | 27,0 | 21,5 | 21,9 | 22,0 | 22,4 | 22,9 |

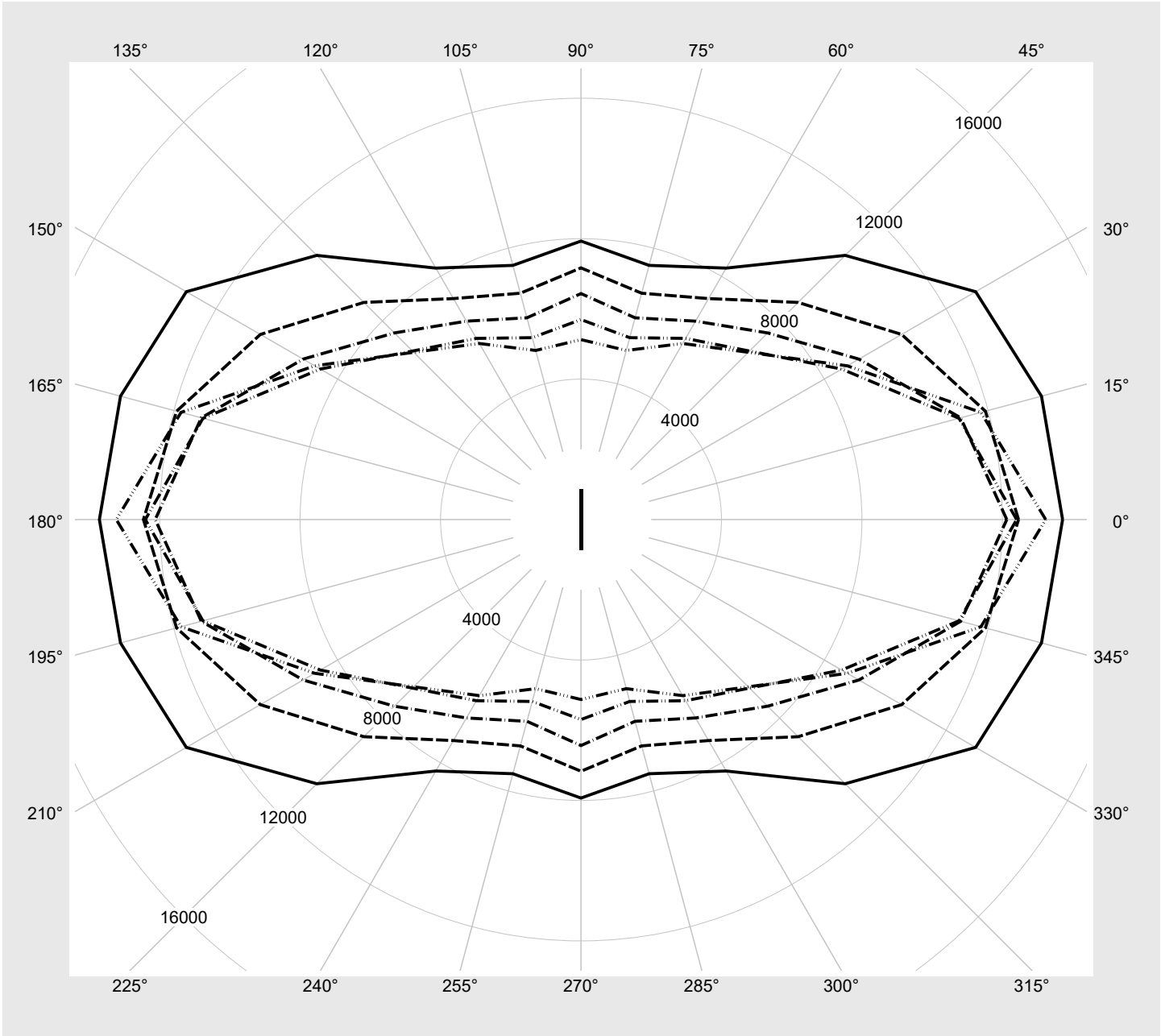
| | | | | | |
|--|---|------------|--------------|------------|-------------|
| Leuchtdichten-Tabelle Max. für $\gamma \geq 65^\circ$ | Lichttechnische Abmessungen in mm: L = 1480 B = 78 | H(C0) = 13 | H(C180) = 13 | H(C90) = 0 | H(C270) = 0 |
|--|---|------------|--------------|------------|-------------|

| C-Ebenen | γ | Leuchtdichte in cd/m ² | | | | | | | |
|----------|----------|-----------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-------------|--|
| | | 0° 180° | 15° 165° 195° 345° | 30° 150° 210° 330° | 45° 135° 225° 315° | 60° 120° 240° 300° | 75° 105° 255° 285° | 90° 270° | |
| 45° | | 36142.4 | 37663.8 | 39199.4 | 33062.8 | 22607.0 | 16824.7 | 15688.9 | |
| 50° | | 26947.3 | 28019.7 | 29300.8 | 24314.9 | 16476.3 | 12731.3 | 12227.6 | |
| 55° | | 20650.7 | 21305.5 | 21993.0 | 17926.2 | 12412.9 | 10204.2 | 10220.6 | |
| 60° | | 16290.5 | 16560.5 | 16653.2 | 13547.3 | 9849.5 | 8580.8 | 8896.8 | |
| 65° | | 13715.7 | 13577.1 | 12978.6 | 10640.7 | 8269.8 | 7494.5 | 7931.9 | |
| 70° | | 12460.9 | 11923.8 | 10544.4 | 8746.1 | 7267.5 | 6673.7 | 7168.2 | |
| 75° | | 12126.0 | 11194.8 | 9139.2 | 7517.3 | 6524.8 | 5948.8 | 6436.1 | |
| 80° | | 12407.6 | 11146.0 | 8572.9 | 6787.0 | 5958.0 | 5363.3 | 5695.7 | |
| 85° | | 13234.4 | 11792.2 | 8757.6 | 6737.0 | 5790.3 | 4986.2 | 5124.9 | |

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Leuchtdichten in cd/m² γ 65° γ 70° γ 75° γ 80° γ 85° **siteco**



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| | | |
|---------------------------|---------------------------|---------------|
| Multilumen-Tabelle | Umgebungstemperatur: 25°C | siteco |
|---------------------------|---------------------------|---------------|

| DIP-Stufe | Schalterstellung | | | Lichtstrom [lm] | Systemleistung [W] | Systemleistung [W] Lebensdauerende | Systemleistung [W] Durchschnitt |
|-----------|------------------|---|---|--------------------|-----------------------|---------------------------------------|------------------------------------|
| | 1 | 2 | 3 | | | | |
| 1 | A | C | E | 14240 | 77.6 | 87.4 | 82.5 |
| 2 | A | C | F | 13005 | 70.1 | 79.0 | 74.6 |
| 3 | A | D | E | 12035 | 64.3 | 74.9 | 69.6 |
| 4 | A | D | F | 10981 | 58.3 | 65.2 | 61.8 |
| 5 | B | C | E | 9990 | 52.6 | 58.7 | 55.6 |
| 6 | B | C | F | 8989 | 47.0 | 52.2 | 49.6 |
| 7 | B | D | E | 7988 | 41.5 | 46.2 | 43.8 |
| 8 | B | D | F | 6966 | 36.0 | 39.9 | 38.0 |