

Lichttechnischer Prüfbefund

Familie
Licross® Protected

Bestell-Nr.: 51TP11DN4EXR
EAN: 4058352210512

LP-Nummer
58525_10



Ausführung Prismenabdeckung, satiniert, eng strahlend
Bestückung LED 4000 K | CRI ≥ 80
Betriebsgerät EVG-DALI
Bemessungswerte Nettolichtstrom = 14140 lm
 Systemleistung = 84.2 W
 Lichtausbeute = 167.9 lm/W

Seriendokumentation
12.12.2019

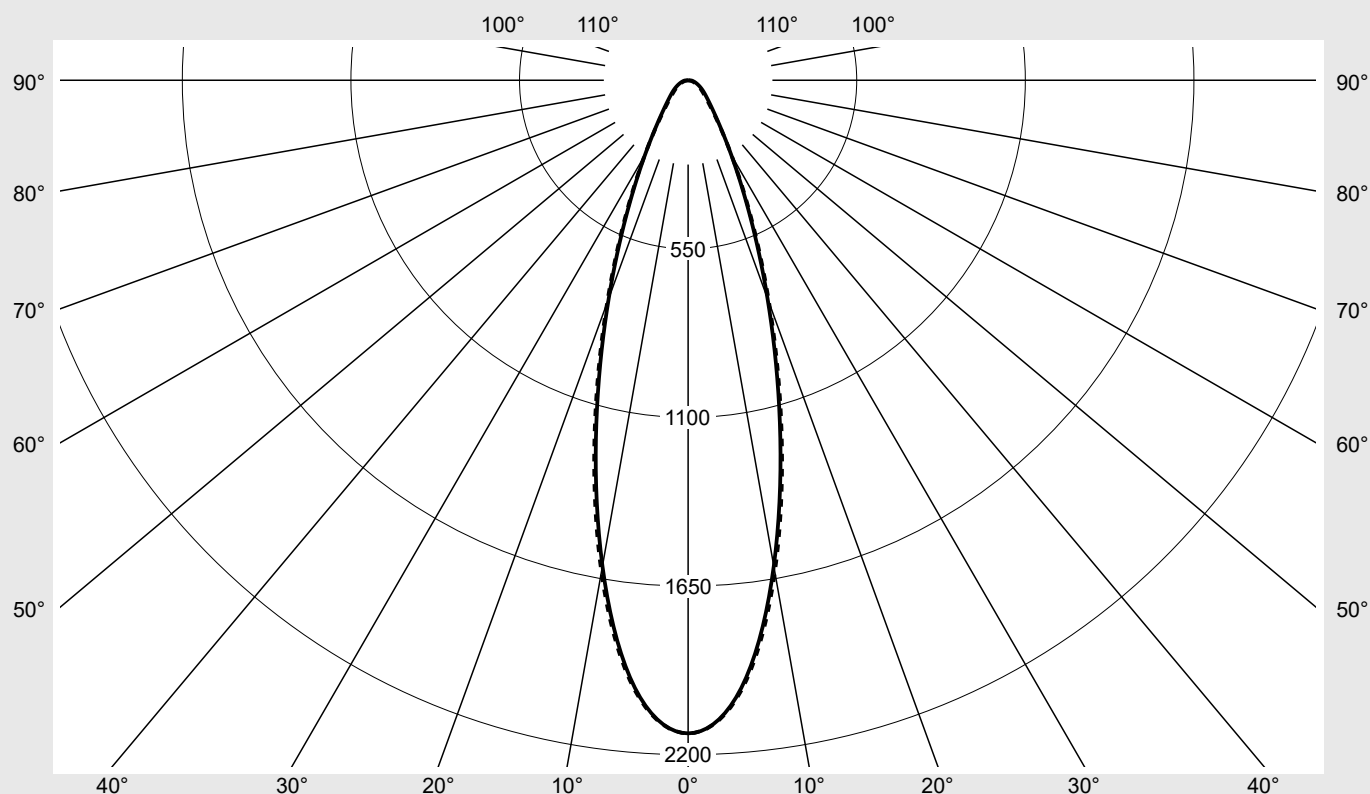
sITeco

Lichtstärke in cd/klm

C180-0

C270-90

Imax: 2130 cd/klm



Klassifizierungen

DIN 5040 A 7 1
 CIE N1=84 N2=94 N3=98
 N4=99 N5=100

Leuchtenbetriebswirkungsgrade

η_{LB} 100,0%
 ϕ_u 99,1%
 ϕ_o 0,9%

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° | 2130.5 | 2130.5 | 2130.5 | 2130.5 | 2130.5 | 2130.5 | 2130.5 | 12.7 | 12.7 |
| 5° | 1990.0 | 1982.4 | 1972.8 | 1980.9 | 1991.5 | 1994.0 | 1997.3 | 94.9 | 107.6 |
| 10° | 1609.4 | 1602.7 | 1594.9 | 1604.0 | 1616.7 | 1623.6 | 1628.9 | 153.3 | 260.9 |
| 15° | 1156.5 | 1152.7 | 1146.1 | 1151.7 | 1161.7 | 1170.4 | 1176.7 | 164.3 | 425.2 |
| 20° | 757.1 | 754.5 | 751.0 | 754.8 | 760.5 | 766.7 | 772.3 | 142.2 | 567.4 |
| 25° | 464.1 | 463.3 | 461.4 | 464.7 | 468.5 | 471.4 | 475.4 | 108.1 | 675.5 |
| 30° | 281.8 | 280.0 | 276.3 | 277.8 | 280.6 | 282.2 | 284.6 | 76.7 | 752.2 |
| 35° | 178.8 | 175.8 | 169.5 | 168.1 | 169.9 | 172.0 | 174.0 | 54.1 | 806.3 |
| 40° | 123.8 | 119.7 | 111.6 | 107.8 | 108.9 | 112.2 | 115.0 | 39.9 | 846.2 |
| 45° | 92.5 | 87.9 | 79.0 | 74.1 | 74.5 | 78.8 | 82.8 | 31.1 | 877.3 |
| 50° | 72.9 | 68.3 | 60.1 | 54.9 | 54.7 | 59.1 | 63.7 | 25.6 | 902.9 |
| 55° | 58.5 | 54.5 | 47.8 | 42.9 | 42.0 | 45.8 | 50.2 | 21.5 | 924.4 |
| 60° | 46.6 | 43.5 | 38.6 | 34.6 | 32.9 | 35.6 | 39.1 | 18.0 | 942.5 |
| 65° | 36.7 | 34.5 | 31.1 | 28.0 | 26.1 | 27.3 | 29.5 | 14.9 | 957.4 |
| 70° | 28.5 | 27.0 | 24.6 | 22.5 | 20.4 | 20.1 | 21.2 | 12.0 | 969.4 |
| 75° | 21.8 | 20.7 | 19.0 | 17.5 | 15.4 | 14.0 | 14.0 | 9.2 | 978.6 |
| 80° | 16.2 | 15.4 | 14.3 | 12.9 | 10.9 | 8.9 | 8.1 | 6.7 | 985.3 |
| 85° | 11.7 | 11.2 | 10.3 | 9.1 | 7.1 | 4.7 | 3.5 | 4.6 | 989.8 |
| 90° | 8.1 | 7.7 | 6.9 | 5.8 | 3.9 | 1.7 | 0.3 | 2.8 | 992.6 |
| 95° | 6.9 | 6.6 | 5.8 | 4.7 | 3.0 | 1.1 | 0.2 | 2.3 | 994.8 |
| 100° | 6.0 | 5.6 | 4.9 | 3.8 | 2.2 | 0.6 | 0.2 | 1.8 | 996.7 |
| 105° | 5.1 | 4.8 | 4.0 | 2.9 | 1.5 | 0.3 | 0.2 | 1.4 | 998.1 |
| 110° | 4.3 | 4.0 | 3.2 | 2.2 | 0.9 | 0.2 | 0.2 | 1.1 | 999.2 |
| 115° | 3.6 | 3.2 | 2.5 | 1.6 | 0.5 | 0.3 | 0.3 | 0.8 | 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 |

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| UGR-Tabelle | | Standardraum | | | | | | | | | |
|-----------------|-----|-------------------------------------|------|------|------|------|---------------------------------------|------|------|------|------|
| | | Blickrichtung quer zur Leuchte (C0) | | | | | Blickrichtung längs zur Leuchte (C90) | | | | |
| Raumabmessungen | | | | | | | | | | | |
| x | y | | | | | | | | | | |
| 2H | 2H | 17,3 | 18,5 | 17,6 | 18,8 | 19,1 | 16,9 | 18,1 | 17,3 | 18,4 | 18,7 |
| | 3H | 18,3 | 19,4 | 18,7 | 19,7 | 20,1 | 17,8 | 18,9 | 18,2 | 19,2 | 19,6 |
| | 4H | 18,8 | 19,8 | 19,2 | 20,2 | 20,6 | 18,2 | 19,2 | 18,6 | 19,5 | 19,9 |
| | 6H | 19,3 | 20,2 | 19,7 | 20,6 | 21,0 | 18,5 | 19,4 | 18,9 | 19,7 | 20,1 |
| | 8H | 19,6 | 20,4 | 20,1 | 20,8 | 21,2 | 18,7 | 19,4 | 19,1 | 19,8 | 20,2 |
| | 12H | 19,8 | 20,5 | 20,3 | 20,9 | 21,3 | 18,7 | 19,4 | 19,1 | 19,8 | 20,2 |
| 4H | 2H | 17,5 | 18,5 | 17,9 | 18,9 | 19,2 | 17,2 | 18,2 | 17,6 | 18,5 | 18,9 |
| | 3H | 18,8 | 19,6 | 19,2 | 20,0 | 20,4 | 18,3 | 19,1 | 18,7 | 19,5 | 19,9 |
| | 4H | 19,4 | 20,2 | 19,9 | 20,6 | 21,0 | 18,8 | 19,5 | 19,2 | 19,9 | 20,4 |
| | 6H | 20,1 | 20,7 | 20,5 | 21,1 | 21,6 | 19,2 | 19,8 | 19,6 | 20,2 | 20,7 |
| | 8H | 20,4 | 20,9 | 20,8 | 21,4 | 21,8 | 19,3 | 19,9 | 19,8 | 20,3 | 20,8 |
| | 12H | 20,7 | 21,1 | 21,1 | 21,6 | 22,1 | 19,4 | 19,9 | 19,9 | 20,3 | 20,8 |
| 8H | 4H | 19,6 | 20,2 | 20,1 | 20,6 | 21,1 | 19,0 | 19,6 | 19,5 | 20,0 | 20,5 |
| | 6H | 20,4 | 20,8 | 20,9 | 21,3 | 21,8 | 19,5 | 20,0 | 20,0 | 20,5 | 21,0 |
| | 8H | 20,7 | 21,2 | 21,3 | 21,6 | 22,2 | 19,7 | 20,1 | 20,2 | 20,6 | 21,2 |
| | 12H | 21,2 | 21,5 | 21,7 | 22,0 | 22,5 | 19,9 | 20,2 | 20,4 | 20,7 | 21,3 |
| 12H | 4H | 19,6 | 20,1 | 20,1 | 20,6 | 21,1 | 19,1 | 19,5 | 19,6 | 20,0 | 20,5 |
| | 6H | 20,4 | 20,8 | 20,9 | 21,3 | 21,8 | 19,6 | 20,0 | 20,1 | 20,5 | 21,0 |
| | 8H | 20,9 | 21,2 | 21,4 | 21,7 | 22,2 | 19,9 | 20,2 | 20,4 | 20,7 | 21,3 |

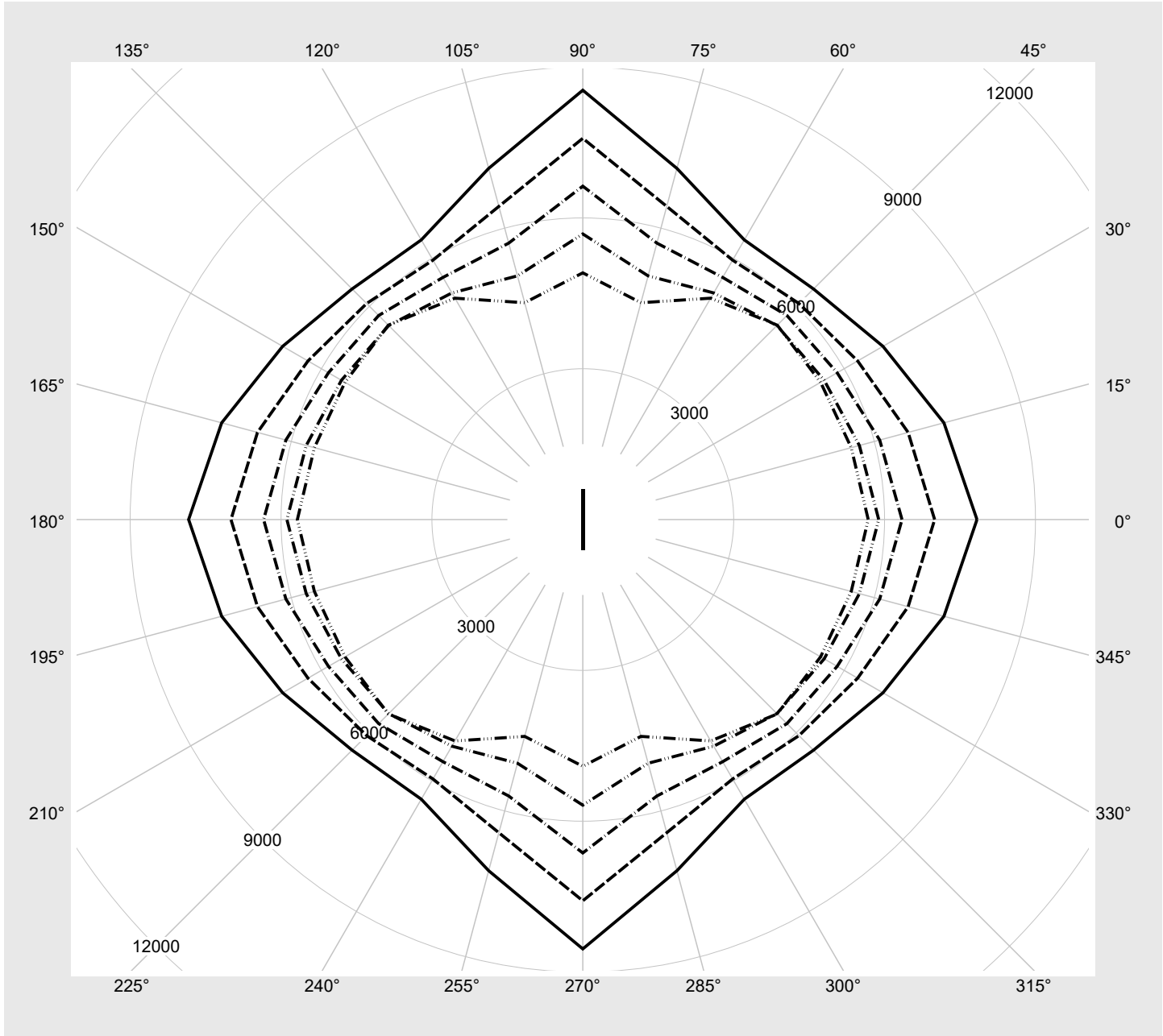
| | | | | | |
|--|---|------------|--------------|------------|-------------|
| Leuchtdichten-Tabelle Max. für $\gamma \geq 65^\circ$ | Lichttechnische Abmessungen in mm: L = 1480 B = 78 | H(C0) = 13 | H(C180) = 13 | H(C90) = 0 | H(C270) = 0 |
|--|---|------------|--------------|------------|-------------|

| 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° | | 13738.5 | 13108.3 | 11961.3 | 11484.7 | 11916.6 | 13088.9 | 14334.5 | |
| 50° | | 11590.7 | 10922.4 | 9778.0 | 9179.2 | 9474.0 | 10717.1 | 12130.3 | |
| 55° | | 10097.2 | 9469.0 | 8461.9 | 7844.6 | 8009.9 | 9219.9 | 10722.2 | |
| 60° | | 8867.7 | 8340.8 | 7564.7 | 7029.9 | 7052.5 | 8120.3 | 9578.6 | |
| 65° | | 7837.8 | 7433.9 | 6891.6 | 6487.3 | 6423.1 | 7231.3 | 8540.5 | |
| 70° | | 6995.8 | 6697.0 | 6310.1 | 6078.1 | 5958.5 | 6448.8 | 7583.4 | |
| 75° | | 6346.9 | 6111.7 | 5839.9 | 5740.2 | 5561.7 | 5692.6 | 6631.7 | |
| 80° | | 5883.9 | 5693.2 | 5541.6 | 5458.7 | 5205.3 | 5018.4 | 5681.1 | |
| 85° | | 5675.2 | 5525.4 | 5460.3 | 5468.2 | 5084.6 | 4465.5 | 4907.6 | |

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



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| Familie Licross® Protected | Bestell-Nr.: 51TP11DN4EXR EAN: 4058352210512 | LP-Nummer 58525_10 |
| Dimmstufen-Tabelle | | Umgebungstemperatur: 25°C |



| Lichtstrom [%] | Dimmstufe linear | Dimmstufe logarithmisch | Lichtstrom [lm] | Systemleistung [W] |
|----------------|------------------|-------------------------|-----------------|--------------------|
| 100 | 254 | 254 | 14140 | 84.2 |
| 95 | 240 | 252 | 13435 | 79.5 |
| 90 | 226 | 250 | 12728 | 75.0 |
| 85 | 213 | 248 | 12021 | 70.4 |
| 80 | 199 | 245 | 11314 | 65.9 |
| 75 | 186 | 243 | 10607 | 61.6 |
| 70 | 173 | 240 | 9899 | 57.3 |
| 65 | 160 | 237 | 9192 | 53.1 |
| 60 | 147 | 234 | 8485 | 48.9 |
| 55 | 134 | 231 | 7778 | 44.8 |
| 50 | 122 | 227 | 7071 | 40.8 |
| 45 | 109 | 223 | 6364 | 36.8 |
| 40 | 97 | 219 | 5657 | 32.8 |
| 35 | 84 | 214 | 4950 | 29.0 |
| 30 | 72 | 208 | 4243 | 25.0 |
| 25 | 60 | 201 | 3536 | 21.4 |
| 20 | 48 | 193 | 2828 | 17.5 |
| 15 | 36 | 183 | 2121 | 13.7 |
| 10 | 24 | 168 | 1414 | 10.4 |
| 5 | 12 | 143 | 707 | 6.6 |