

Lichttechnischer Prüfbefund

Familie
Lunis® micro square

Bestell-Nr.: 51DE11CD1FF22 + 59DL1L0000G0000D0 + 59DL10000200E00DB

LP-Nummer

EAN: 4058352107928 + 4058352030165 + 4058352127438

57965_5

Ausführung Prismenscheibe, Darklightreflektor
hochglänzend, medium strahlend,
Abdeckscheibe, IP54, klar

Bestückung LED 3000K / CRI ≥ 80

Betriebsgerät EVG-DALI

Bemessungswerte Nettolichtstrom = 990 lm
Systemleistung = 10.4 W
Lichtausbeute = 95.2 lm/W

Seriendokumentation
15.02.2018

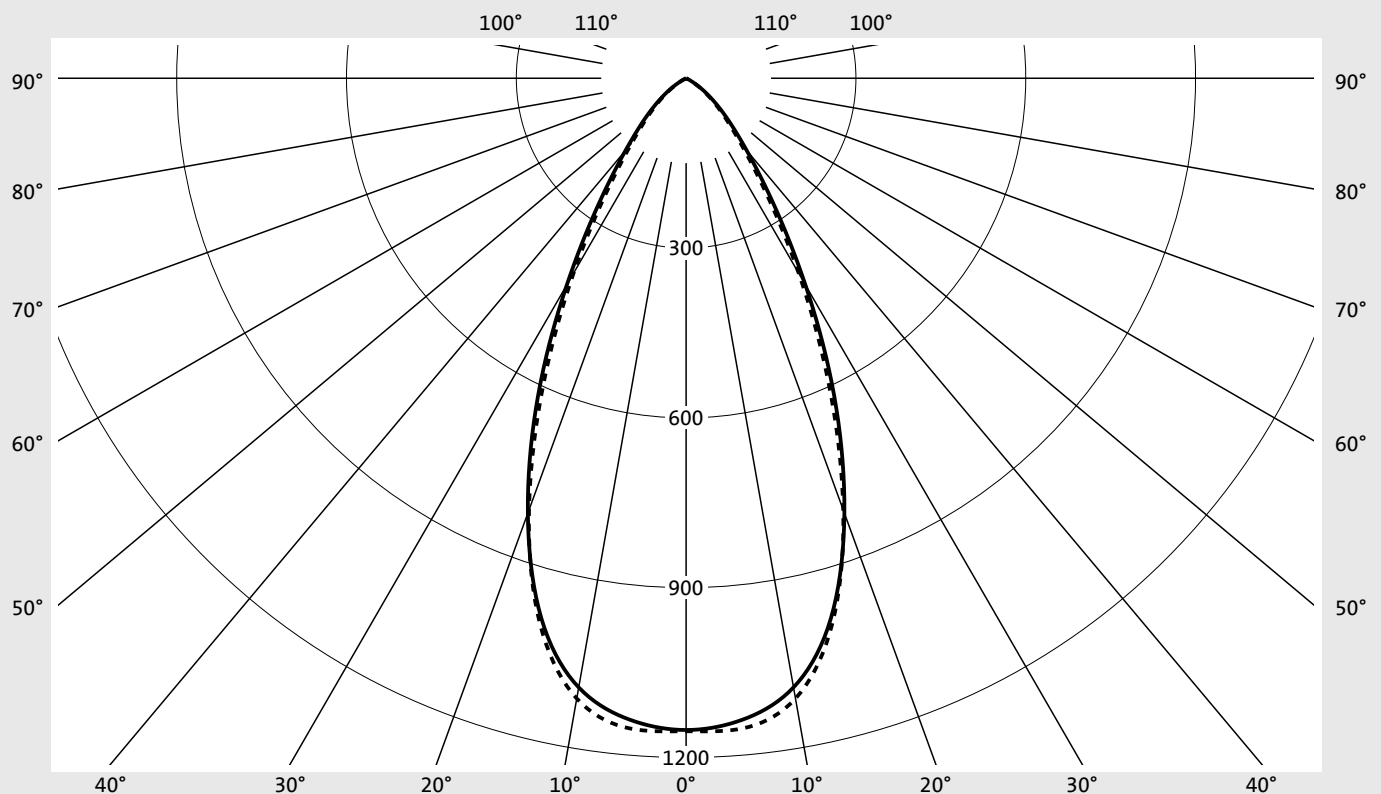
siteco

Lichtstärke in cd/klm

C180-0

C270-90

Imax: 1154 cd/klm



Klassifizierungen

DIN 5040 A 7 0
CIE N1=89 N2=100 N3=100
N4=100 N5=100

Leuchtenbetriebswirkungsgrade

η_{LB} 100,0%
 ϕ_u 100,0%
 ϕ_o 0,0%

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° | | | |
| γ | | Lichtstärke in cd/klm | | | | | | Lichtstrom in lm/klm | |
| 0° | 1151.4 | 1151.4 | 1152.1 | 1153.2 | 1152.5 | 1153.2 | 1153.6 | 6.9 | 6.9 |
| 5° | 1137.7 | 1139.9 | 1145.8 | 1147.3 | 1151.8 | 1152.1 | 1152.8 | 54.8 | 61.7 |
| 10° | 1092.7 | 1095.7 | 1108.2 | 1110.1 | 1116.3 | 1113.0 | 1112.7 | 105.4 | 167.1 |
| 15° | 988.0 | 992.8 | 1019.7 | 1017.8 | 1021.5 | 1003.4 | 997.6 | 143.0 | 310.1 |
| 20° | 817.5 | 826.0 | 867.3 | 863.6 | 860.7 | 824.5 | 811.6 | 158.0 | 468.1 |
| 25° | 619.0 | 627.5 | 678.1 | 673.3 | 666.3 | 615.3 | 596.9 | 149.4 | 617.5 |
| 30° | 421.3 | 434.2 | 489.2 | 488.8 | 474.1 | 417.2 | 398.1 | 123.9 | 741.4 |
| 35° | 266.0 | 279.6 | 327.6 | 332.4 | 312.8 | 261.6 | 244.2 | 92.7 | 834.1 |
| 40° | 166.4 | 176.3 | 209.5 | 215.1 | 197.4 | 162.0 | 149.8 | 65.7 | 899.8 |
| 45° | 107.0 | 112.5 | 132.1 | 132.8 | 123.2 | 102.9 | 95.9 | 45.5 | 945.3 |
| 50° | 66.4 | 69.4 | 78.9 | 76.0 | 74.5 | 64.6 | 59.8 | 29.8 | 975.2 |
| 55° | 36.2 | 37.6 | 41.0 | 37.6 | 39.5 | 35.4 | 32.5 | 16.9 | 992.0 |
| 60° | 13.7 | 13.7 | 15.9 | 14.4 | 15.1 | 13.7 | 12.2 | 6.8 | 998.8 |
| 65° | 1.8 | 1.8 | 3.0 | 2.6 | 3.0 | 2.2 | 1.5 | 1.2 | 1000.0 |
| 70° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1000.0 |
| 75° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1000.0 |
| 80° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1000.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 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 |

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| 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 | |
| 2H | 2H | 19,1 | 20,3 | 19,4 | 20,6 | 20,9 | 18,7 | 19,9 | 19,0 | 20,2 | 20,5 |
| | 3H | 18,9 | 20,0 | 19,3 | 20,3 | 20,7 | 18,5 | 19,6 | 18,9 | 19,9 | 20,3 |
| | 4H | 18,9 | 19,8 | 19,3 | 20,2 | 20,6 | 18,5 | 19,4 | 18,9 | 19,8 | 20,2 |
| | 6H | 18,8 | 19,7 | 19,2 | 20,0 | 20,4 | 18,4 | 19,3 | 18,8 | 19,6 | 20,0 |
| | 8H | 18,9 | 19,6 | 19,3 | 20,0 | 20,4 | 18,5 | 19,2 | 18,9 | 19,6 | 20,0 |
| | 12H | 18,8 | 19,5 | 19,3 | 19,9 | 20,3 | 18,4 | 19,1 | 18,9 | 19,5 | 19,9 |
| 4H | 2H | 18,9 | 19,9 | 19,3 | 20,2 | 20,6 | 18,5 | 19,5 | 18,9 | 19,9 | 20,2 |
| | 3H | 18,7 | 19,5 | 19,2 | 19,9 | 20,4 | 18,4 | 19,2 | 18,8 | 19,6 | 20,0 |
| | 4H | 18,7 | 19,4 | 19,1 | 19,8 | 20,2 | 18,3 | 19,0 | 18,7 | 19,4 | 19,8 |
| | 6H | 18,6 | 19,2 | 19,0 | 19,6 | 20,1 | 18,2 | 18,8 | 18,6 | 19,2 | 19,7 |
| | 8H | 18,5 | 19,1 | 19,0 | 19,5 | 20,0 | 18,1 | 18,7 | 18,6 | 19,1 | 19,6 |
| | 12H | 18,5 | 18,9 | 19,0 | 19,4 | 19,9 | 18,1 | 18,6 | 18,6 | 19,0 | 19,5 |
| 8H | 4H | 18,5 | 19,1 | 19,0 | 19,5 | 20,0 | 18,1 | 18,7 | 18,6 | 19,1 | 19,6 |
| | 6H | 18,4 | 18,8 | 18,9 | 19,3 | 19,8 | 18,0 | 18,5 | 18,5 | 18,9 | 19,4 |
| | 8H | 18,4 | 18,7 | 18,9 | 19,2 | 19,7 | 18,0 | 18,3 | 18,5 | 18,8 | 19,4 |
| | 12H | 18,3 | 18,6 | 18,8 | 19,1 | 19,7 | 17,9 | 18,2 | 18,5 | 18,7 | 19,3 |
| 12H | 4H | 18,5 | 18,9 | 19,0 | 19,4 | 19,9 | 18,1 | 18,6 | 18,6 | 19,0 | 19,5 |
| | 6H | 18,4 | 18,7 | 18,9 | 19,2 | 19,8 | 18,0 | 18,3 | 18,5 | 18,8 | 19,4 |
| | 8H | 18,3 | 18,6 | 18,8 | 19,1 | 19,7 | 17,9 | 18,2 | 18,5 | 18,7 | 19,3 |

| Leuchtdichten-Tabelle | Max. für $\gamma \geq 65^\circ$ | Lichttechnische Abmessungen in mm: | L = 82 | B = 82 |
|-----------------------|---------------------------------|------------------------------------|--------|--------|
|-----------------------|---------------------------------|------------------------------------|--------|--------|

| 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° | | 22276.2 | 23427.7 | 27499.0 | 27652.7 | 25657.1 | 21432.1 | 19971.2 |
| 50° | | 15210.4 | 15886.3 | 18083.4 | 17407.3 | 17069.4 | 14787.6 | 13689.2 |
| 55° | | 9280.3 | 9659.1 | 10511.6 | 9659.1 | 10132.7 | 9090.8 | 8333.3 |
| 60° | | 4019.5 | 4019.5 | 4671.4 | 4236.8 | 4454.1 | 4019.5 | 3584.8 |
| 65° | | 642.8 | 642.8 | 1028.1 | 899.5 | 1028.1 | 771.3 | 514.2 |
| 70° | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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

