

Lichttechnischer Prüfbefund

Familie
Lunis® micro square

Bestell-Nr.: 51DE11B74FG22 + 59DL10000200E00DB
EAN: 4058352107119 + 4058352127438

LP-Nummer
57963_12

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

Bestückung LED 4000K / CRI ≥ 80

Betriebsgerät EVG

Bemessungswerte Nettolichtstrom = 3040 lm
Systemleistung = 35.4 W
Lichtausbeute = 85.9 lm/W

Seriendokumentation
15.02.2018

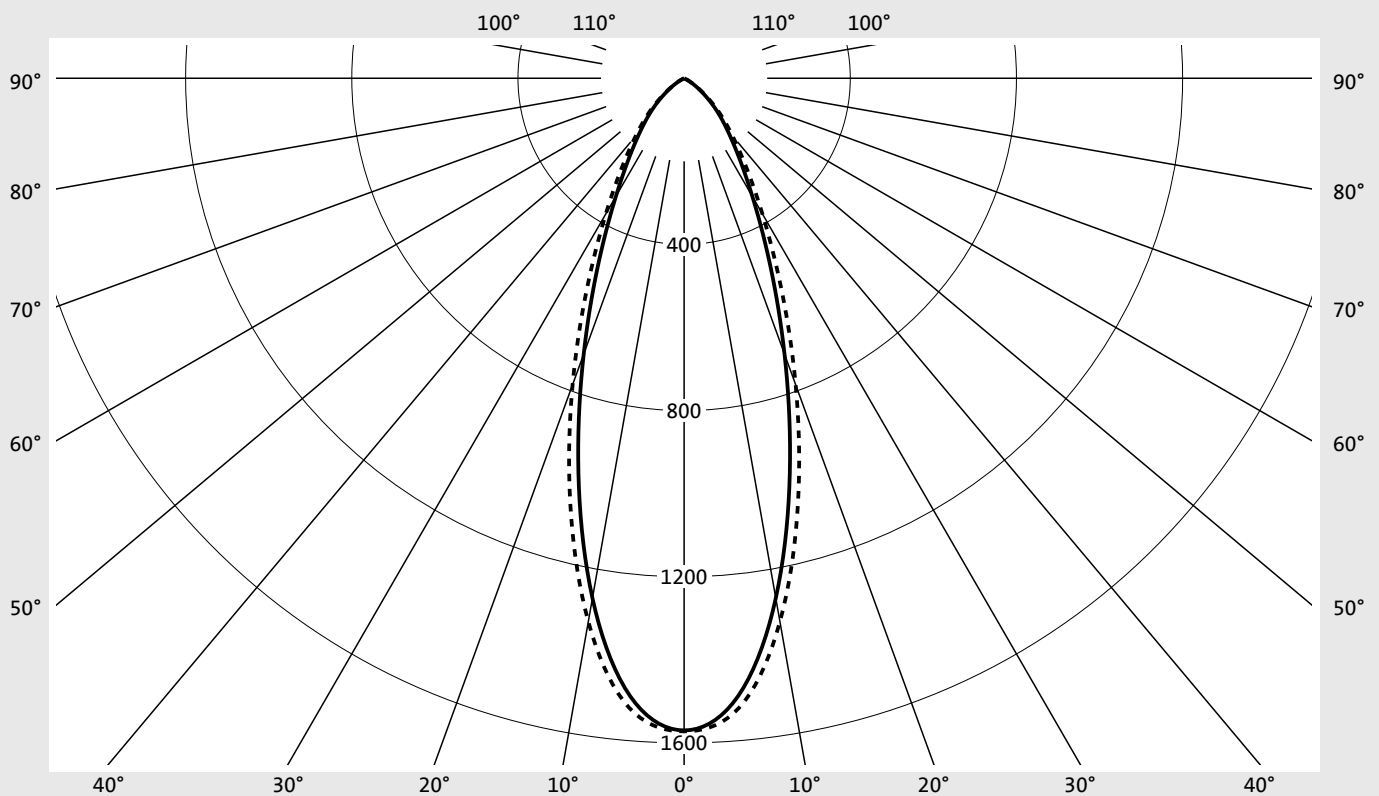
siteco

Lichtstärke in cd/klm

C180-0

C270-90

Imax: 1574 cd/klm



Klassifizierungen

DIN 5040 A 7 0
CIE N1=87 N2=99 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° | 1569.9 | 1570.6 | 1569.5 | 1573.7 | 1571.0 | 1574.4 | 1572.2 | 9.4 | 9.4 |
| 5° | 1492.8 | 1489.5 | 1511.4 | 1511.4 | 1530.0 | 1523.2 | 1520.9 | 72.2 | 81.6 |
| 10° | 1270.8 | 1270.4 | 1309.9 | 1313.0 | 1344.4 | 1333.5 | 1328.1 | 124.9 | 206.5 |
| 15° | 983.1 | 986.9 | 1038.5 | 1047.2 | 1082.1 | 1065.4 | 1059.0 | 147.6 | 354.1 |
| 20° | 706.8 | 718.1 | 775.8 | 788.4 | 817.6 | 795.9 | 784.9 | 145.0 | 499.1 |
| 25° | 484.7 | 496.8 | 558.7 | 576.2 | 594.8 | 561.4 | 549.2 | 127.6 | 626.7 |
| 30° | 328.7 | 341.2 | 394.4 | 414.5 | 421.3 | 388.7 | 376.5 | 105.6 | 732.3 |
| 35° | 227.4 | 237.6 | 276.7 | 292.6 | 296.8 | 269.1 | 259.6 | 84.7 | 817.0 |
| 40° | 160.6 | 168.5 | 194.7 | 206.5 | 208.4 | 189.0 | 181.0 | 66.8 | 883.9 |
| 45° | 112.0 | 118.0 | 136.3 | 142.0 | 144.2 | 131.3 | 124.9 | 51.0 | 934.9 |
| 50° | 69.8 | 74.4 | 88.4 | 88.4 | 93.4 | 83.1 | 77.1 | 35.1 | 970.0 |
| 55° | 37.2 | 40.2 | 47.1 | 46.7 | 50.5 | 44.8 | 40.2 | 20.1 | 990.0 |
| 60° | 14.8 | 15.2 | 18.2 | 17.5 | 19.7 | 17.8 | 15.9 | 8.2 | 998.2 |
| 65° | 2.3 | 2.7 | 4.2 | 3.8 | 4.6 | 3.8 | 2.7 | 1.8 | 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 | | | | | | | | | | |
| 2H | 2H | 22,8 | 24,0 | 23,2 | 24,3 | 24,6 | 23,4 | 24,6 | 23,7 | 24,9 | 25,2 |
| | 3H | 22,6 | 23,7 | 23,0 | 24,0 | 24,4 | 23,2 | 24,3 | 23,6 | 24,6 | 25,0 |
| | 4H | 22,6 | 23,5 | 23,0 | 23,9 | 24,3 | 23,2 | 24,1 | 23,5 | 24,5 | 24,8 |
| | 6H | 22,5 | 23,4 | 22,9 | 23,7 | 24,1 | 23,1 | 23,9 | 23,5 | 24,3 | 24,7 |
| | 8H | 22,6 | 23,3 | 23,0 | 23,7 | 24,1 | 23,2 | 23,9 | 23,6 | 24,2 | 24,7 |
| | 12H | 22,5 | 23,2 | 23,0 | 23,6 | 24,0 | 23,1 | 23,8 | 23,5 | 24,2 | 24,6 |
| 4H | 2H | 22,7 | 23,6 | 23,1 | 24,0 | 24,4 | 23,2 | 24,2 | 23,6 | 24,5 | 24,9 |
| | 3H | 22,5 | 23,3 | 22,9 | 23,7 | 24,1 | 23,1 | 23,8 | 23,5 | 24,2 | 24,7 |
| | 4H | 22,4 | 23,1 | 22,9 | 23,5 | 24,0 | 23,0 | 23,7 | 23,4 | 24,1 | 24,5 |
| | 6H | 22,3 | 22,9 | 22,8 | 23,3 | 23,8 | 22,9 | 23,5 | 23,3 | 23,9 | 24,4 |
| | 8H | 22,3 | 22,8 | 22,8 | 23,3 | 23,7 | 22,8 | 23,4 | 23,3 | 23,8 | 24,3 |
| | 12H | 22,3 | 22,7 | 22,8 | 23,2 | 23,7 | 22,8 | 23,2 | 23,3 | 23,7 | 24,2 |
| 8H | 4H | 22,3 | 22,8 | 22,8 | 23,3 | 23,7 | 22,8 | 23,4 | 23,3 | 23,8 | 24,3 |
| | 6H | 22,2 | 22,6 | 22,7 | 23,1 | 23,6 | 22,7 | 23,1 | 23,2 | 23,6 | 24,1 |
| | 8H | 22,1 | 22,5 | 22,6 | 23,0 | 23,5 | 22,7 | 23,0 | 23,2 | 23,5 | 24,1 |
| | 12H | 22,1 | 22,4 | 22,6 | 22,9 | 23,4 | 22,6 | 22,9 | 23,1 | 23,4 | 24,0 |
| 12H | 4H | 22,3 | 22,7 | 22,8 | 23,2 | 23,7 | 22,8 | 23,2 | 23,3 | 23,7 | 24,2 |
| | 6H | 22,1 | 22,5 | 22,7 | 23,0 | 23,5 | 22,7 | 23,0 | 23,2 | 23,5 | 24,1 |
| | 8H | 22,1 | 22,4 | 22,6 | 22,9 | 23,4 | 22,6 | 22,9 | 23,1 | 23,4 | 24,0 |

| Leuchtdichten-Tabelle | | Max. für $\gamma \geq 65^\circ$ | | | | | | |
|-----------------------|----------|---|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-------------|
| | | Lichttechnische Abmessungen in mm: L = 82, B = 82 | | | | | | |
| C-Ebenen | γ | 0° | 15° 165° 195° 345° | 30° 150° 210° 330° | 45° 135° 225° 315° | 60° 120° 240° 300° | 75° 105° 255° 285° | 90° 270° |
| | | Leuchtdichte in cd/m ² | | | | | | |
| 45° | | 71593.6 | 75472.7 | 87122.9 | 90765.5 | 92222.6 | 83972.0 | 79844.2 |
| 50° | | 49122.7 | 52326.6 | 62204.6 | 62204.6 | 65674.9 | 58466.9 | 54195.4 |
| 55° | | 29319.9 | 31713.8 | 37099.0 | 36799.4 | 39791.6 | 35303.4 | 31713.8 |
| 60° | | 13385.2 | 13727.9 | 16474.1 | 15787.7 | 17846.7 | 16131.4 | 14415.1 |
| 65° | | 2435.9 | 2842.4 | 4466.4 | 4060.9 | 4872.9 | 4060.9 | 2842.4 |
| 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° **siteco**

