

Lichttechnischer Prüfbefund

Familie
Monsun® 12

Bestell-Nr.: 51FP20TP960X
EAN: 4058352392416

LP-Nummer
59060_32



Ausführung Prismenwanne, opal, PC, breit strahlend
Bestückung LED 2700 K ... 6500 K | CRI ≥ 80
Betriebsgerät EVG-DALI
Einstellung indiv. Einstellung
Bemessungswerte bei 2700 K
 Nettolichtstrom = 5420 lm
 Systemleistung = 39.8 W
 Lichtausbeute = 136.2 lm/W

Seriendokumentation
26.08.2020

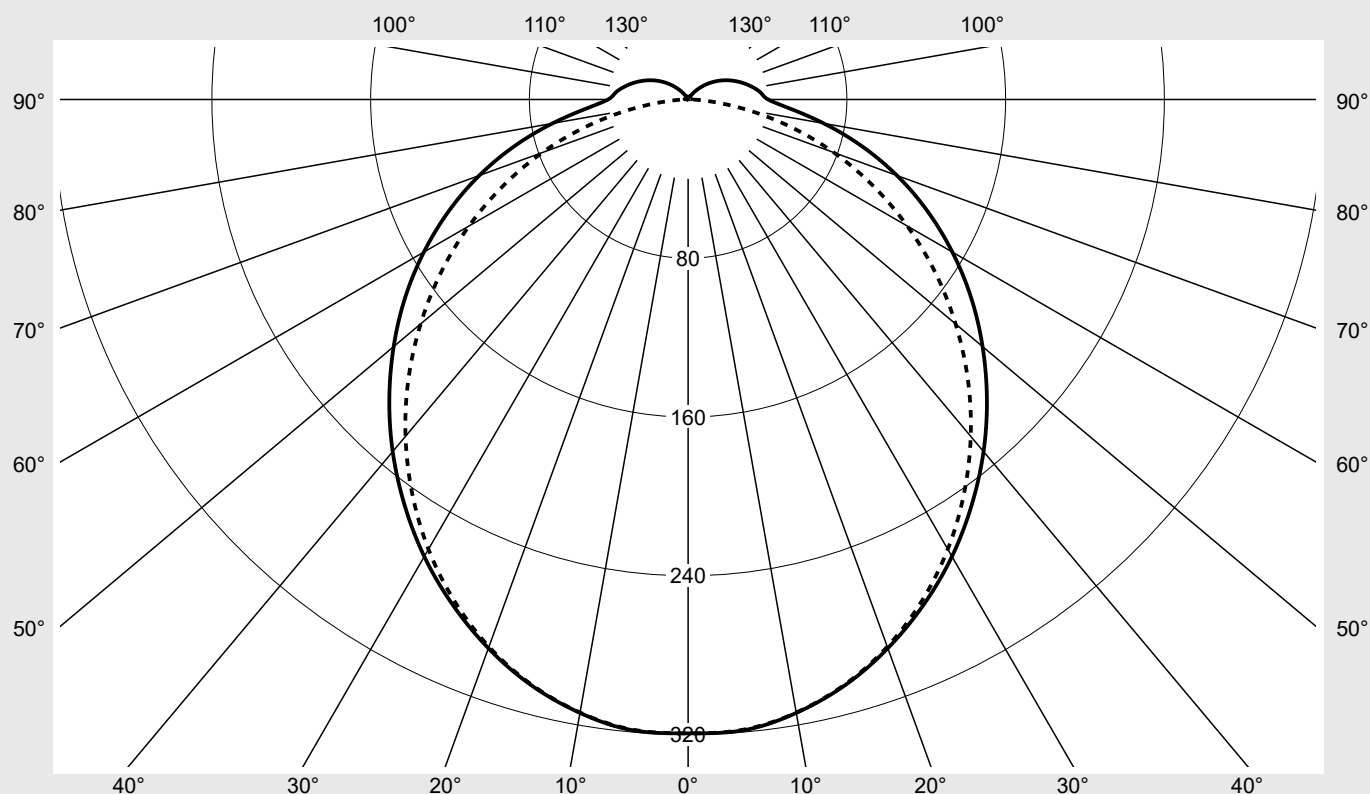
sITeco

Lichtstärke in cd/klm

C180-0

C270-90

Imax: 319 cd/klm



Klassifizierungen

DIN 5040 A 4 1
 CIE N1=45 N2=75 N3=93
 N4=94 N5=100

Leuchtenbetriebswirkungsgrade

η_{LB} 100,0%
 ϕ_u 93,7%
 ϕ_o 6,3%

Messbedingungen

DIN EN 13032 und DIN 5032

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| Wertetabelle Lichtstärkemessung | Maximale Lichtstärke | sITeco |
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| 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° | 319.4 | 319.4 | 319.4 | 319.4 | 319.4 | 319.4 | 319.4 | 1.9 | 1.9 |
| 5° | 319.1 | 317.8 | 316.0 | 317.2 | 318.6 | 318.6 | 318.8 | 15.2 | 17.1 |
| 10° | 313.9 | 312.8 | 311.0 | 312.1 | 313.5 | 313.5 | 313.7 | 29.8 | 46.9 |
| 15° | 305.6 | 304.7 | 302.7 | 303.7 | 305.0 | 304.9 | 305.2 | 43.2 | 90.1 |
| 20° | 294.3 | 293.5 | 291.4 | 292.2 | 293.3 | 293.1 | 293.5 | 54.9 | 145.0 |
| 25° | 280.9 | 280.2 | 277.7 | 277.9 | 278.8 | 278.5 | 278.8 | 64.6 | 209.6 |
| 30° | 265.9 | 265.3 | 262.4 | 261.6 | 261.9 | 261.4 | 261.7 | 72.0 | 281.6 |
| 35° | 249.2 | 248.5 | 245.6 | 243.7 | 242.9 | 242.2 | 242.4 | 77.0 | 358.5 |
| 40° | 231.6 | 230.8 | 227.5 | 224.6 | 222.7 | 221.4 | 221.6 | 79.5 | 438.0 |
| 45° | 212.9 | 211.8 | 208.5 | 204.2 | 201.3 | 199.0 | 199.4 | 79.5 | 517.5 |
| 50° | 193.7 | 192.3 | 188.8 | 183.7 | 179.4 | 175.9 | 176.0 | 77.3 | 594.9 |
| 55° | 174.1 | 172.4 | 168.8 | 162.7 | 157.2 | 152.3 | 152.1 | 73.1 | 667.9 |
| 60° | 153.8 | 152.1 | 148.1 | 141.4 | 134.9 | 128.8 | 127.5 | 66.9 | 734.9 |
| 65° | 133.1 | 131.4 | 127.0 | 119.9 | 112.8 | 105.5 | 102.8 | 59.2 | 794.0 |
| 70° | 112.0 | 110.4 | 105.0 | 98.0 | 90.2 | 82.2 | 78.2 | 49.9 | 843.9 |
| 75° | 90.5 | 88.8 | 83.0 | 75.7 | 67.3 | 58.8 | 53.6 | 39.3 | 883.2 |
| 80° | 69.4 | 67.4 | 62.0 | 54.0 | 45.3 | 36.4 | 30.4 | 28.3 | 911.6 |
| 85° | 51.2 | 49.1 | 43.8 | 35.9 | 26.7 | 17.7 | 11.3 | 18.6 | 930.2 |
| 90° | 40.3 | 38.3 | 33.0 | 25.3 | 16.4 | 7.5 | 1.9 | 12.9 | 943.1 |
| 95° | 36.9 | 35.1 | 30.2 | 22.8 | 14.1 | 5.6 | 1.6 | 11.6 | 954.7 |
| 100° | 33.7 | 31.9 | 27.1 | 20.1 | 11.9 | 4.0 | 1.5 | 10.1 | 964.8 |
| 105° | 30.1 | 28.5 | 23.8 | 17.3 | 9.5 | 2.6 | 1.3 | 8.6 | 973.4 |
| 110° | 26.5 | 24.6 | 20.5 | 14.4 | 7.3 | 1.5 | 1.2 | 7.1 | 980.4 |
| 115° | 22.8 | 21.1 | 17.3 | 11.6 | 5.2 | 1.3 | 1.2 | 5.7 | 986.1 |
| 120° | 19.1 | 17.5 | 14.1 | 8.9 | 3.4 | 1.3 | 1.1 | 4.4 | 990.5 |
| 125° | 15.4 | 13.9 | 10.8 | 6.2 | 1.7 | 1.2 | 1.0 | 3.2 | 993.6 |
| 130° | 11.8 | 10.5 | 7.7 | 3.9 | 1.4 | 1.2 | 1.0 | 2.2 | 995.8 |
| 135° | 8.3 | 7.2 | 5.0 | 2.0 | 1.4 | 1.2 | 1.1 | 1.4 | 997.2 |
| 140° | 5.1 | 4.3 | 2.5 | 1.6 | 1.3 | 1.1 | 1.0 | 0.8 | 998.0 |
| 145° | 2.4 | 2.0 | 1.8 | 1.6 | 1.4 | 1.2 | 1.2 | 0.5 | 998.5 |
| 150° | 1.9 | 1.9 | 1.8 | 1.5 | 1.4 | 1.3 | 1.2 | 0.4 | 999.0 |
| 155° | 1.8 | 1.8 | 1.6 | 1.5 | 1.4 | 1.3 | 1.3 | 0.4 | 999.3 |
| 160° | 1.6 | 1.6 | 1.5 | 1.5 | 1.4 | 1.4 | 1.3 | 0.3 | 999.6 |
| 165° | 1.5 | 1.5 | 1.4 | 1.4 | 1.4 | 1.4 | 1.3 | 0.2 | 999.8 |
| 170° | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.3 | 0.1 | 999.9 |
| 175° | 1.3 | 1.3 | 1.3 | 1.4 | 1.4 | 1.4 | 1.3 | 0.1 | 1000.0 |
| 180° | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 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 | 20,0 | 21,7 | 20,3 | 22,0 | 22,3 | 19,8 | 21,5 | 20,1 | 21,8 | 22,1 |
| | 3H | 21,8 | 23,4 | 22,2 | 23,7 | 24,0 | 21,3 | 22,9 | 21,7 | 23,2 | 23,6 |
| | 4H | 22,6 | 24,1 | 23,0 | 24,4 | 24,8 | 21,9 | 23,4 | 22,3 | 23,8 | 24,2 |
| | 6H | 23,3 | 24,7 | 23,7 | 25,1 | 25,5 | 22,4 | 23,8 | 22,8 | 24,1 | 24,5 |
| | 8H | 23,7 | 25,0 | 24,1 | 25,3 | 25,7 | 22,5 | 23,8 | 22,9 | 24,2 | 24,6 |
| | 12H | 24,0 | 25,2 | 24,4 | 25,6 | 26,0 | 22,6 | 23,8 | 23,0 | 24,2 | 24,6 |
| 4H | 2H | 20,7 | 22,2 | 21,1 | 22,5 | 22,9 | 20,6 | 22,0 | 21,0 | 22,4 | 22,8 |
| | 3H | 22,7 | 24,0 | 23,1 | 24,4 | 24,8 | 22,3 | 23,6 | 22,7 | 24,0 | 24,4 |
| | 4H | 23,7 | 24,8 | 24,1 | 25,2 | 25,7 | 23,0 | 24,2 | 23,5 | 24,6 | 25,0 |
| | 6H | 24,5 | 25,6 | 25,0 | 26,0 | 26,4 | 23,6 | 24,6 | 24,0 | 25,0 | 25,5 |
| | 8H | 24,9 | 25,9 | 25,4 | 26,3 | 26,8 | 23,8 | 24,7 | 24,2 | 25,1 | 25,6 |
| | 12H | 25,3 | 26,1 | 25,8 | 26,6 | 27,1 | 23,9 | 24,7 | 24,3 | 25,2 | 25,7 |
| 8H | 4H | 24,0 | 25,0 | 24,5 | 25,4 | 25,9 | 23,5 | 24,4 | 23,9 | 24,8 | 25,3 |
| | 6H | 25,1 | 25,8 | 25,5 | 26,3 | 26,8 | 24,2 | 24,9 | 24,6 | 25,4 | 25,9 |
| | 8H | 25,5 | 26,3 | 26,0 | 26,7 | 27,2 | 24,4 | 25,1 | 24,9 | 25,6 | 26,1 |
| | 12H | 26,0 | 26,6 | 26,6 | 27,1 | 27,7 | 24,6 | 25,2 | 25,1 | 25,7 | 26,2 |
| 12H | 4H | 24,1 | 24,9 | 24,5 | 25,4 | 25,9 | 23,6 | 24,4 | 24,1 | 24,9 | 25,3 |
| | 6H | 25,1 | 25,8 | 25,6 | 26,3 | 26,8 | 24,3 | 25,0 | 24,8 | 25,5 | 26,0 |
| | 8H | 25,7 | 26,3 | 26,2 | 26,8 | 27,3 | 24,6 | 25,2 | 25,1 | 25,7 | 26,2 |

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| Leuchtdichten-Tabelle Max. für $\gamma \geq 65^\circ$ | Lichttechnische Abmessungen in mm: L = 1590, B = 87 | H(C0) = 21, H(C90) = 21 | H(C180) = 21, H(C270) = 21 |
|--|--|-------------------------|----------------------------|

| 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° | | 9505.4 | 9492.3 | 9502.9 | 9590.3 | 9850.2 | 10254.7 | 10902.8 |
| 50° | | 9170.1 | 9143.2 | 9157.6 | 9220.8 | 9448.4 | 9838.5 | 10560.1 |
| 55° | | 8844.5 | 8801.2 | 8814.3 | 8840.7 | 9033.7 | 9394.3 | 10196.4 |
| 60° | | 8496.5 | 8453.6 | 8450.1 | 8449.1 | 8604.0 | 8928.3 | 9768.6 |
| 65° | | 8130.6 | 8085.1 | 8048.0 | 8022.6 | 8146.9 | 8418.3 | 9263.8 |
| 70° | | 7714.3 | 7664.0 | 7556.9 | 7510.5 | 7579.8 | 7799.5 | 8642.0 |
| 75° | | 7205.8 | 7141.6 | 6964.0 | 6855.9 | 6823.9 | 6951.6 | 7738.9 |
| 80° | | 6612.7 | 6496.0 | 6295.8 | 6024.3 | 5839.2 | 5758.1 | 6391.3 |
| 85° | | 6128.7 | 5964.7 | 5683.8 | 5273.5 | 4774.4 | 4266.9 | 4420.7 |

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

