

## Lichttechnischer Prüfbefund

Familie  
Monsun® 31

Bestell-Nr.: 51FA207P430B  
EAN: 4058352419533

LP-Nummer  
59098\_1



**Ausführung** diffus strahlend  
**Bestückung** LED 4000 K | CRI ≥ 80  
**Betriebsgerät** EVG  
**Bemessungswerte** Nettolichtstrom = 3800 lm  
Systemleistung = 28.0 W  
Lichtausbeute = 135.7 lm/W

Seriendokumentation  
24.11.2020

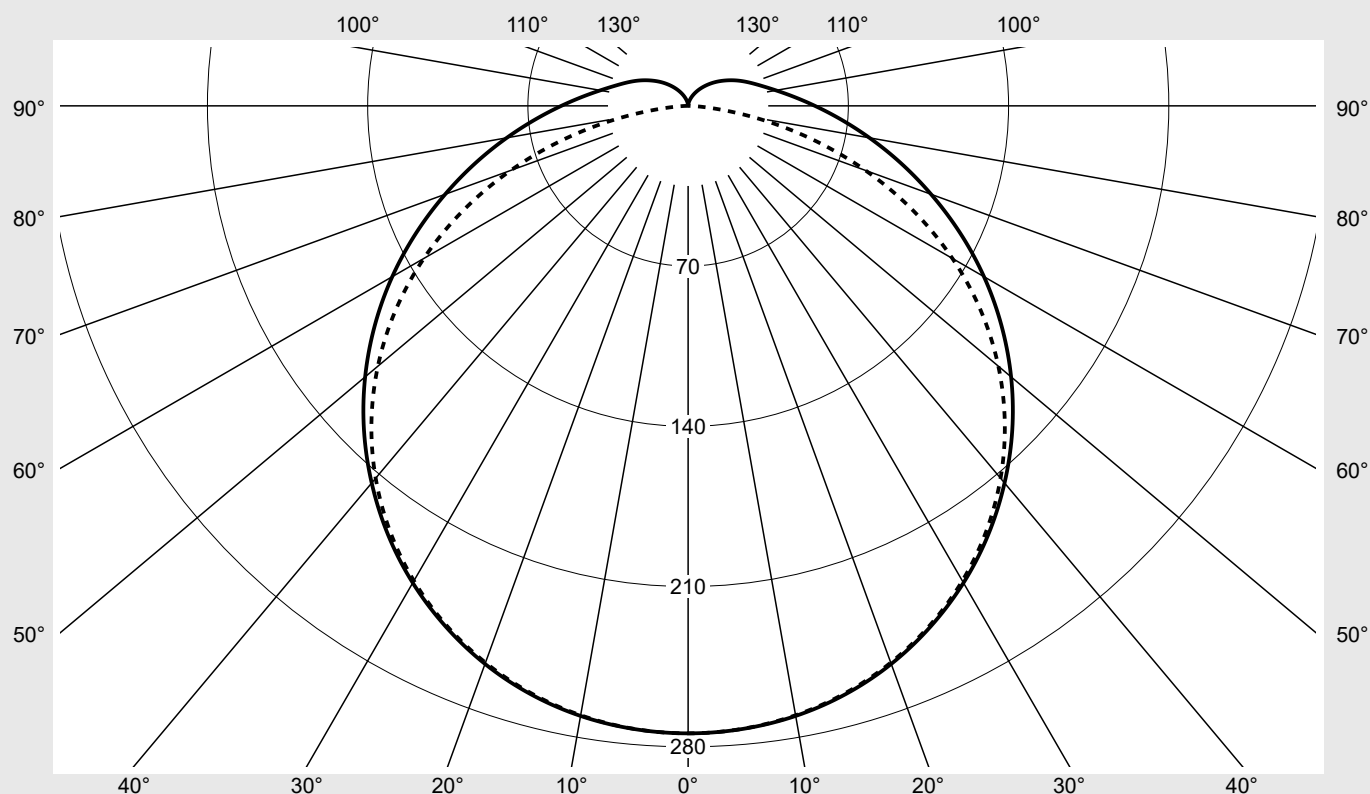
siteco

Lichtstärke in cd/klm

C180-0

C270-90

Imax: 274 cd/klm



## Klassifizierungen

DIN 5040 A 3 1  
CIE N1=42 N2=72 N3=91  
N4=91 N5=100

## Leuchtenbetriebswirkungsgrade

$\eta_{LB}$  100,0%  
 $\phi_u$  91,5%  
 $\phi_o$  8,5%

## Messbedingungen

DIN EN 13032 und DIN 5032

## Lichttechnischer Prüfbefund

|  |   |                                    |
|--|---|------------------------------------|
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| <b>Wertetabelle Lichtstärkemessung</b> |   | <b>Maximale Lichtstärke</b>        |
|  |   | <b>sITeco</b>                      |

| C-<br>Ebenen | 0°<br>180°            | 15°                  | 30°                  | 45°                  | 60°                  | 75°                  | 90°<br>270° | Phi-Zone             | Summe<br>Phi-Zone |
|--------------|-----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|-------------|----------------------|-------------------|
|              |                       | 165°<br>195°<br>345° | 150°<br>210°<br>330° | 135°<br>225°<br>315° | 120°<br>240°<br>300° | 105°<br>255°<br>285° |             |                      |                   |
| γ            | Lichtstärke in cd/klm |                      |                      |                      |                      |                      |             | Lichtstrom in lm/klm |                   |
| 0°           | 274.1                 | 274.1                | 274.1                | 274.1                | 274.1                | 274.1                | 274.1       | 1.6                  | 1.6               |
| 5°           | 273.2                 | 273.3                | 273.2                | 273.2                | 273.2                | 273.2                | 273.2       | 13.1                 | 14.7              |
| 10°          | 270.6                 | 270.6                | 270.6                | 270.5                | 270.4                | 270.3                | 270.3       | 25.7                 | 40.4              |
| 15°          | 266.0                 | 266.0                | 266.0                | 266.0                | 265.8                | 265.6                | 265.6       | 37.7                 | 78.2              |
| 20°          | 259.5                 | 259.5                | 259.5                | 259.5                | 259.3                | 259.0                | 258.8       | 48.6                 | 126.8             |
| 25°          | 250.9                 | 251.0                | 251.0                | 251.1                | 250.9                | 250.5                | 250.2       | 58.1                 | 184.9             |
| 30°          | 240.6                 | 240.7                | 240.8                | 240.8                | 240.6                | 240.0                | 239.6       | 65.9                 | 250.8             |
| 35°          | 228.6                 | 228.7                | 228.8                | 228.8                | 228.4                | 227.6                | 227.0       | 71.8                 | 322.6             |
| 40°          | 215.1                 | 215.1                | 215.2                | 215.0                | 214.4                | 213.2                | 212.4       | 75.6                 | 398.1             |
| 45°          | 200.3                 | 200.3                | 200.1                | 199.6                | 198.6                | 196.9                | 195.7       | 77.1                 | 475.2             |
| 50°          | 184.2                 | 184.1                | 183.7                | 182.8                | 181.1                | 178.6                | 176.9       | 76.3                 | 551.6             |
| 55°          | 167.1                 | 166.9                | 166.1                | 164.5                | 161.9                | 158.4                | 156.2       | 73.3                 | 624.9             |
| 60°          | 149.3                 | 148.9                | 147.5                | 145.0                | 141.2                | 136.4                | 133.3       | 68.1                 | 692.9             |
| 65°          | 131.0                 | 130.3                | 128.2                | 124.6                | 119.3                | 112.8                | 108.7       | 60.9                 | 753.8             |
| 70°          | 113.0                 | 112.0                | 108.9                | 103.7                | 96.6                 | 88.0                 | 82.5        | 52.1                 | 805.9             |
| 75°          | 96.0                  | 94.7                 | 90.5                 | 83.5                 | 74.0                 | 62.9                 | 55.7        | 42.5                 | 848.4             |
| 80°          | 80.5                  | 78.8                 | 73.9                 | 65.2                 | 53.2                 | 39.2                 | 29.8        | 32.9                 | 881.2             |
| 85°          | 66.8                  | 65.0                 | 59.5                 | 50.0                 | 36.5                 | 20.0                 | 8.7         | 24.5                 | 905.7             |
| 90°          | 55.4                  | 53.5                 | 47.9                 | 38.3                 | 24.9                 | 9.6                  | 0.2         | 18.5                 | 924.1             |
| 95°          | 46.2                  | 44.4                 | 39.0                 | 30.1                 | 18.3                 | 6.1                  | 0.2         | 14.7                 | 938.8             |
| 100°         | 39.0                  | 37.3                 | 32.5                 | 24.7                 | 14.8                 | 4.7                  | 0.2         | 12.0                 | 950.8             |
| 105°         | 33.5                  | 32.0                 | 27.8                 | 21.0                 | 12.5                 | 3.8                  | 0.2         | 10.1                 | 960.9             |
| 110°         | 29.3                  | 28.0                 | 24.2                 | 18.2                 | 10.5                 | 3.2                  | 0.2         | 8.5                  | 969.4             |
| 115°         | 25.7                  | 24.5                 | 21.1                 | 15.7                 | 9.0                  | 2.7                  | 0.2         | 7.1                  | 976.5             |
| 120°         | 22.4                  | 21.3                 | 18.2                 | 13.4                 | 7.6                  | 2.4                  | 0.3         | 5.9                  | 982.4             |
| 125°         | 19.2                  | 18.3                 | 15.6                 | 11.4                 | 6.4                  | 2.1                  | 0.3         | 4.8                  | 987.1             |
| 130°         | 16.4                  | 15.6                 | 13.2                 | 9.6                  | 5.4                  | 1.8                  | 0.3         | 3.8                  | 990.9             |
| 135°         | 13.7                  | 13.0                 | 11.0                 | 8.0                  | 4.4                  | 1.6                  | 0.3         | 2.9                  | 993.8             |
| 140°         | 11.3                  | 10.7                 | 9.0                  | 6.5                  | 3.7                  | 1.4                  | 0.4         | 2.2                  | 996.0             |
| 145°         | 9.1                   | 8.6                  | 7.2                  | 5.2                  | 3.0                  | 1.2                  | 0.4         | 1.6                  | 997.5             |
| 150°         | 7.1                   | 6.7                  | 5.6                  | 4.1                  | 2.4                  | 0.9                  | 0.4         | 1.1                  | 998.6             |
| 155°         | 5.3                   | 5.0                  | 4.2                  | 3.0                  | 1.8                  | 0.8                  | 0.4         | 0.7                  | 999.3             |
| 160°         | 3.8                   | 3.6                  | 3.0                  | 2.1                  | 1.3                  | 0.7                  | 0.4         | 0.4                  | 999.7             |
| 165°         | 2.4                   | 2.3                  | 1.9                  | 1.4                  | 0.9                  | 0.5                  | 0.4         | 0.2                  | 999.9             |
| 170°         | 1.4                   | 1.3                  | 1.1                  | 0.9                  | 0.6                  | 0.5                  | 0.4         | 0.1                  | 1000.0            |
| 175°         | 0.7                   | 0.6                  | 0.6                  | 0.5                  | 0.4                  | 0.4                  | 0.4         | 0.0                  | 1000.0            |
| 180°         | 0.4                   | 0.4                  | 0.4                  | 0.4                  | 0.4                  | 0.4                  | 0.4         | 0.0                  | 1000.0            |

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

| UGR-Tabelle     |     | Standardraum                        |      |      |      |      |                                       |      |      |      |      |
|-----------------|-----|-------------------------------------|------|------|------|------|---------------------------------------|------|------|------|------|
|                 |     | Blickrichtung quer zur Leuchte (C0) |      |      |      |      | Blickrichtung längs zur Leuchte (C90) |      |      |      |      |
| Raumabmessungen |     |                                     |      |      |      |      |                                       |      |      |      |      |
| x               | y   |                                     |      |      |      |      |                                       |      |      |      |      |
| 2H              | 2H  | 19,7                                | 21,4 | 20,0 | 21,8 | 22,1 | 20,1                                  | 21,9 | 20,5 | 22,2 | 22,5 |
|                 | 3H  | 21,5                                | 23,1 | 21,9 | 23,5 | 23,8 | 21,8                                  | 23,4 | 22,2 | 23,7 | 24,1 |
|                 | 4H  | 22,4                                | 23,9 | 22,8 | 24,3 | 24,6 | 22,4                                  | 24,0 | 22,8 | 24,3 | 24,7 |
|                 | 6H  | 23,2                                | 24,6 | 23,6 | 25,0 | 25,4 | 22,8                                  | 24,3 | 23,3 | 24,6 | 25,0 |
|                 | 8H  | 23,7                                | 25,0 | 24,1 | 25,4 | 25,8 | 23,0                                  | 24,3 | 23,4 | 24,7 | 25,1 |
|                 | 12H | 24,0                                | 25,3 | 24,5 | 25,7 | 26,1 | 23,0                                  | 24,3 | 23,4 | 24,7 | 25,1 |
| 4H              | 2H  | 20,5                                | 22,0 | 20,9 | 22,4 | 22,8 | 20,9                                  | 22,4 | 21,3 | 22,7 | 23,1 |
|                 | 3H  | 22,6                                | 23,9 | 23,0 | 24,3 | 24,7 | 22,7                                  | 24,0 | 23,2 | 24,4 | 24,8 |
|                 | 4H  | 23,6                                | 24,8 | 24,0 | 25,2 | 25,6 | 23,5                                  | 24,7 | 23,9 | 25,1 | 25,5 |
|                 | 6H  | 24,6                                | 25,6 | 25,0 | 26,0 | 26,5 | 24,0                                  | 25,1 | 24,5 | 25,5 | 26,0 |
|                 | 8H  | 25,0                                | 26,0 | 25,5 | 26,5 | 26,9 | 24,2                                  | 25,2 | 24,7 | 25,6 | 26,1 |
|                 | 12H | 25,5                                | 26,4 | 26,0 | 26,9 | 27,3 | 24,3                                  | 25,2 | 24,8 | 25,6 | 26,1 |
| 8H              | 4H  | 24,0                                | 25,0 | 24,5 | 25,4 | 25,9 | 23,9                                  | 24,9 | 24,4 | 25,3 | 25,8 |
|                 | 6H  | 25,2                                | 26,0 | 25,7 | 26,5 | 27,0 | 24,7                                  | 25,5 | 25,1 | 25,9 | 26,4 |
|                 | 8H  | 25,8                                | 26,5 | 26,3 | 27,0 | 27,5 | 24,9                                  | 25,7 | 25,4 | 26,1 | 26,6 |
|                 | 12H | 26,4                                | 27,1 | 26,9 | 27,6 | 28,1 | 25,1                                  | 25,7 | 25,6 | 26,2 | 26,7 |
| 12H             | 4H  | 24,1                                | 25,0 | 24,5 | 25,4 | 25,9 | 24,0                                  | 24,9 | 24,5 | 25,4 | 25,8 |
|                 | 6H  | 25,3                                | 26,0 | 25,8 | 26,5 | 27,0 | 24,8                                  | 25,6 | 25,3 | 26,0 | 26,5 |
|                 | 8H  | 26,0                                | 26,6 | 26,5 | 27,1 | 27,6 | 25,2                                  | 25,8 | 25,7 | 26,3 | 26,8 |

|  |  |                          |                             |
|--|--|--------------------------|-----------------------------|
| <b>Leuchtdichten-Tabelle</b> Max. für $\gamma \geq 65^\circ$ | <b>Lichttechnische Abmessungen in mm:</b> L = 1430<br>B = 64 | H(C0) = 22<br>H(C90) = 0 | H(C180) = 22<br>H(C270) = 0 |
|--|--|--------------------------|-----------------------------|

| C-Ebenen | $\gamma$ | Leuchtdichte in cd/m <sup>2</sup> |                             |                             |                             |                             |                             |             |  |
|----------|----------|-----------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-------------|--|
|          |          | 0°<br>180°                        | 15°<br>165°<br>195°<br>345° | 30°<br>150°<br>210°<br>330° | 45°<br>135°<br>225°<br>315° | 60°<br>120°<br>240°<br>300° | 75°<br>105°<br>255°<br>285° | 90°<br>270° |  |
| 45°      |          | 8751.8                            | 8827.8                      | 9053.7                      | 9430.5                      | 9951.0                      | 10616.2                     | 11488.8     |  |
| 50°      |          | 8440.3                            | 8520.1                      | 8759.0                      | 9153.7                      | 9707.5                      | 10429.9                     | 11428.4     |  |
| 55°      |          | 8112.0                            | 8195.7                      | 8436.8                      | 8837.6                      | 9410.9                      | 10175.7                     | 11304.2     |  |
| 60°      |          | 7768.9                            | 7848.6                      | 8080.7                      | 8472.1                      | 9037.5                      | 9817.3                      | 11072.2     |  |
| 65°      |          | 7407.1                            | 7476.4                      | 7687.7                      | 8044.3                      | 8564.1                      | 9307.9                      | 10675.8     |  |
| 70°      |          | 7052.9                            | 7110.2                      | 7271.7                      | 7550.0                      | 7961.7                      | 8586.4                      | 10011.9     |  |
| 75°      |          | 6747.9                            | 6781.9                      | 6880.3                      | 7023.6                      | 7229.0                      | 7574.3                      | 8932.6      |  |
| 80°      |          | 6522.6                            | 6536.7                      | 6569.9                      | 6558.7                      | 6438.1                      | 6229.6                      | 7134.3      |  |
| 85°      |          | 6457.7                            | 6459.0                      | 6438.8                      | 6300.0                      | 5865.5                      | 4723.6                      | 4160.9      |  |

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**Leuchtdichten in cd/m<sup>2</sup>**

$\gamma$  65°   
   $\gamma$  70°   
   $\gamma$  75°   
   $\gamma$  80°   
   $\gamma$  85°

