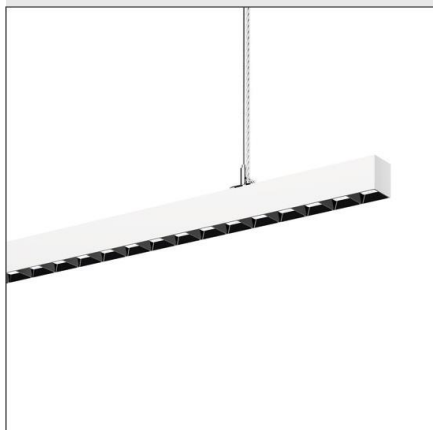


Lichttechnischer Prüfbefund

Familie
Silica® 21

Bestell-Nr.: 51MX31DA37WB
EAN: 4058352886694

LP-Nummer
59281_75



Ausführung Pendelleuchte, Reflektor, schwarz, direkt-/ indirekt strahlend, eng strahlend, UGR≤16 (L65≤3000cd/m²)

Bestückung LED 3000 K | CRI ≥ 80

Betriebsgerät EVG-DALI

Bemessungswerte Nettolichtstrom = 7290 lm
Systemleistung = 46.8 W
Lichtausbeute = 155.8 lm/W

Seriendokumentation
02.08.2023

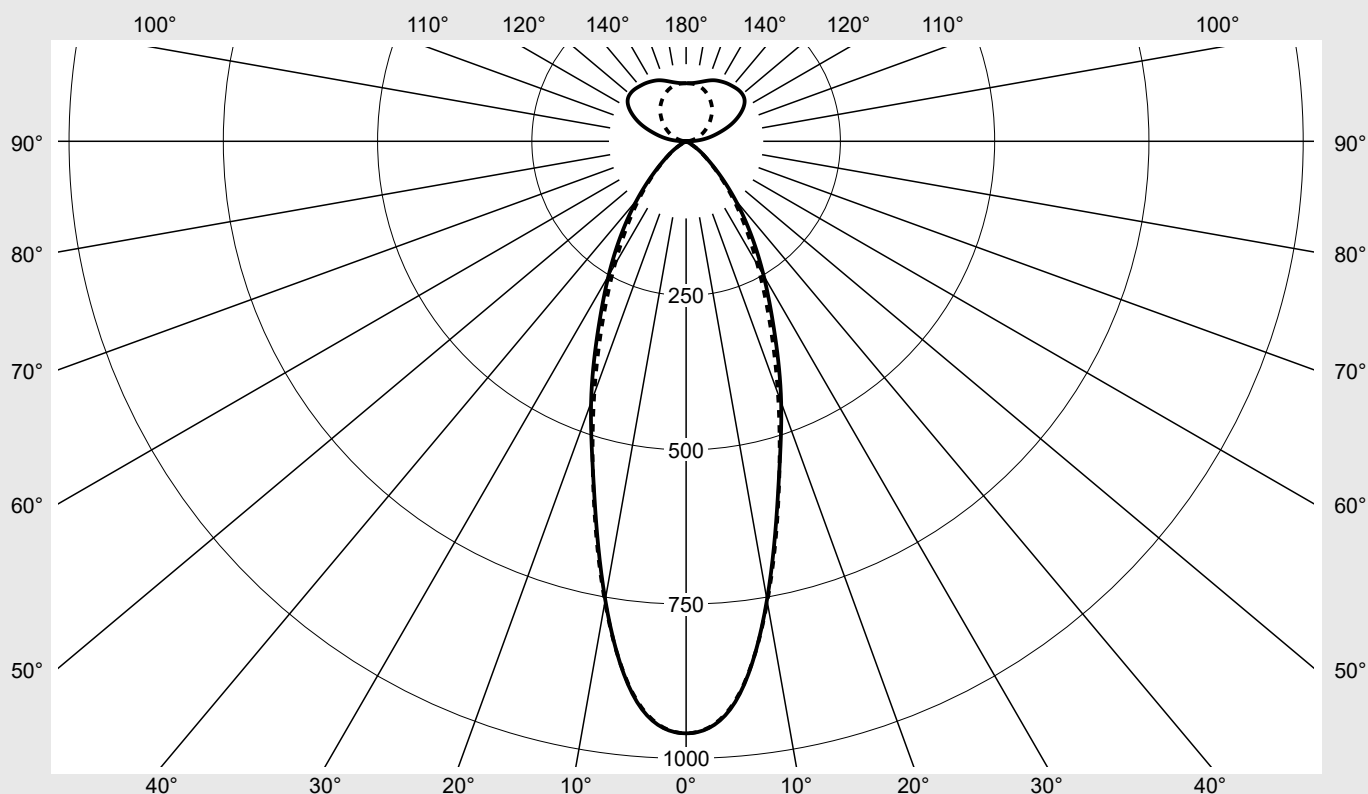
siteco

Lichtstärke in cd/klm

C180-0

C270-90

Imax: 959 cd/klm



Klassifizierungen

DIN 5040 C 7 2
CIE N1=86 N2=99 N3=100
N4=59 N5=100

Leuchtenbetriebswirkungsgrade

η_{LB} 100,0%
 ϕ_u 59,0%
 ϕ_o 41,0%

Messbedingungen

DIN EN 13032 und DIN 5032

Lichttechnischer Prüfbefund

| | | |
|--|---|-------------------------------------|
| Familie Silica® 21 | Bestell-Nr.: 51MX31DA37WB EAN: 4058352886694 | LP-Nummer 59281_75 |
| 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° | 959.4 | 959.4 | 959.4 | 959.4 | 959.4 | 959.4 | 959.4 | 5.7 | 5.7 |
| 5° | 912.2 | 913.2 | 911.7 | 911.4 | 911.5 | 911.7 | 910.3 | 43.6 | 49.3 |
| 10° | 754.6 | 755.9 | 762.5 | 767.9 | 766.9 | 758.5 | 757.5 | 72.5 | 121.8 |
| 15° | 578.2 | 581.5 | 588.5 | 595.2 | 592.8 | 584.9 | 581.1 | 83.3 | 205.1 |
| 20° | 450.2 | 447.9 | 438.1 | 432.3 | 432.3 | 433.7 | 435.2 | 82.1 | 287.1 |
| 25° | 337.4 | 332.5 | 314.5 | 302.7 | 311.9 | 319.4 | 319.2 | 73.7 | 360.8 |
| 30° | 251.3 | 246.8 | 227.0 | 216.4 | 227.8 | 237.2 | 231.6 | 63.8 | 424.6 |
| 35° | 181.9 | 180.8 | 165.4 | 156.1 | 165.0 | 174.0 | 165.2 | 53.2 | 477.8 |
| 40° | 124.1 | 124.5 | 116.4 | 111.0 | 116.6 | 120.7 | 113.9 | 41.6 | 519.4 |
| 45° | 77.3 | 77.7 | 75.1 | 73.6 | 76.6 | 76.5 | 72.7 | 29.4 | 548.8 |
| 50° | 44.9 | 46.1 | 46.4 | 46.4 | 47.6 | 45.7 | 43.0 | 19.3 | 568.1 |
| 55° | 25.0 | 26.0 | 27.2 | 27.9 | 28.2 | 25.7 | 24.0 | 11.9 | 580.0 |
| 60° | 7.9 | 9.6 | 14.5 | 15.8 | 15.1 | 10.6 | 8.6 | 5.8 | 585.9 |
| 65° | 2.5 | 3.1 | 4.5 | 8.1 | 4.9 | 3.1 | 2.7 | 2.2 | 588.0 |
| 70° | 1.0 | 1.1 | 0.9 | 1.6 | 1.1 | 1.3 | 1.3 | 0.6 | 588.6 |
| 75° | 0.2 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.2 | 588.8 |
| 80° | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 588.8 |
| 85° | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.2 | 589.1 |
| 90° | 4.7 | 4.6 | 4.9 | 4.8 | 2.9 | 1.0 | 0.4 | 1.9 | 590.9 |
| 95° | 22.0 | 22.5 | 24.1 | 22.8 | 14.6 | 7.5 | 3.9 | 9.5 | 600.4 |
| 100° | 39.3 | 40.4 | 40.8 | 35.7 | 24.0 | 13.5 | 8.9 | 16.1 | 616.5 |
| 105° | 56.4 | 57.6 | 56.5 | 48.2 | 33.0 | 20.5 | 15.0 | 22.2 | 638.7 |
| 110° | 75.8 | 76.1 | 71.3 | 59.4 | 42.3 | 27.6 | 21.4 | 27.9 | 666.6 |
| 115° | 92.7 | 91.8 | 84.7 | 69.7 | 51.3 | 34.9 | 28.6 | 32.5 | 699.2 |
| 120° | 106.6 | 104.9 | 95.6 | 78.0 | 59.7 | 42.0 | 35.6 | 35.7 | 734.9 |
| 125° | 115.7 | 112.5 | 102.2 | 85.6 | 66.8 | 48.7 | 43.0 | 37.1 | 771.9 |
| 130° | 118.9 | 116.2 | 105.4 | 90.1 | 72.2 | 55.6 | 50.5 | 36.7 | 808.6 |
| 135° | 118.7 | 116.2 | 106.6 | 93.2 | 76.5 | 62.0 | 57.9 | 35.1 | 843.7 |
| 140° | 116.7 | 115.0 | 106.9 | 95.4 | 80.1 | 68.1 | 65.7 | 32.7 | 876.4 |
| 145° | 114.8 | 113.6 | 106.8 | 96.6 | 83.5 | 73.7 | 72.0 | 29.7 | 906.1 |
| 150° | 112.1 | 111.6 | 105.6 | 96.5 | 86.2 | 79.2 | 77.7 | 26.2 | 932.3 |
| 155° | 109.0 | 108.7 | 103.0 | 96.1 | 88.3 | 84.0 | 82.9 | 22.2 | 954.6 |
| 160° | 104.7 | 104.4 | 99.9 | 95.3 | 90.2 | 87.8 | 87.5 | 17.9 | 972.5 |
| 165° | 100.1 | 99.5 | 97.2 | 94.2 | 92.0 | 90.8 | 90.9 | 13.5 | 985.9 |
| 170° | 96.6 | 96.1 | 95.5 | 94.2 | 93.3 | 93.1 | 93.2 | 9.0 | 994.9 |
| 175° | 94.6 | 94.5 | 94.0 | 93.8 | 93.8 | 93.9 | 93.9 | 4.5 | 999.4 |
| 180° | 94.1 | 94.1 | 94.1 | 94.1 | 94.1 | 94.1 | 94.1 | 0.6 | 1000.0 |

Lichttechnischer Prüfbefund

| | | |
|------------------------------|---|------------------------------|
| Familie Silica® 21 | Bestell-Nr.: 51MX31DA37WB EAN: 4058352886694 | LP-Nummer 59281_75 |
|------------------------------|---|------------------------------|

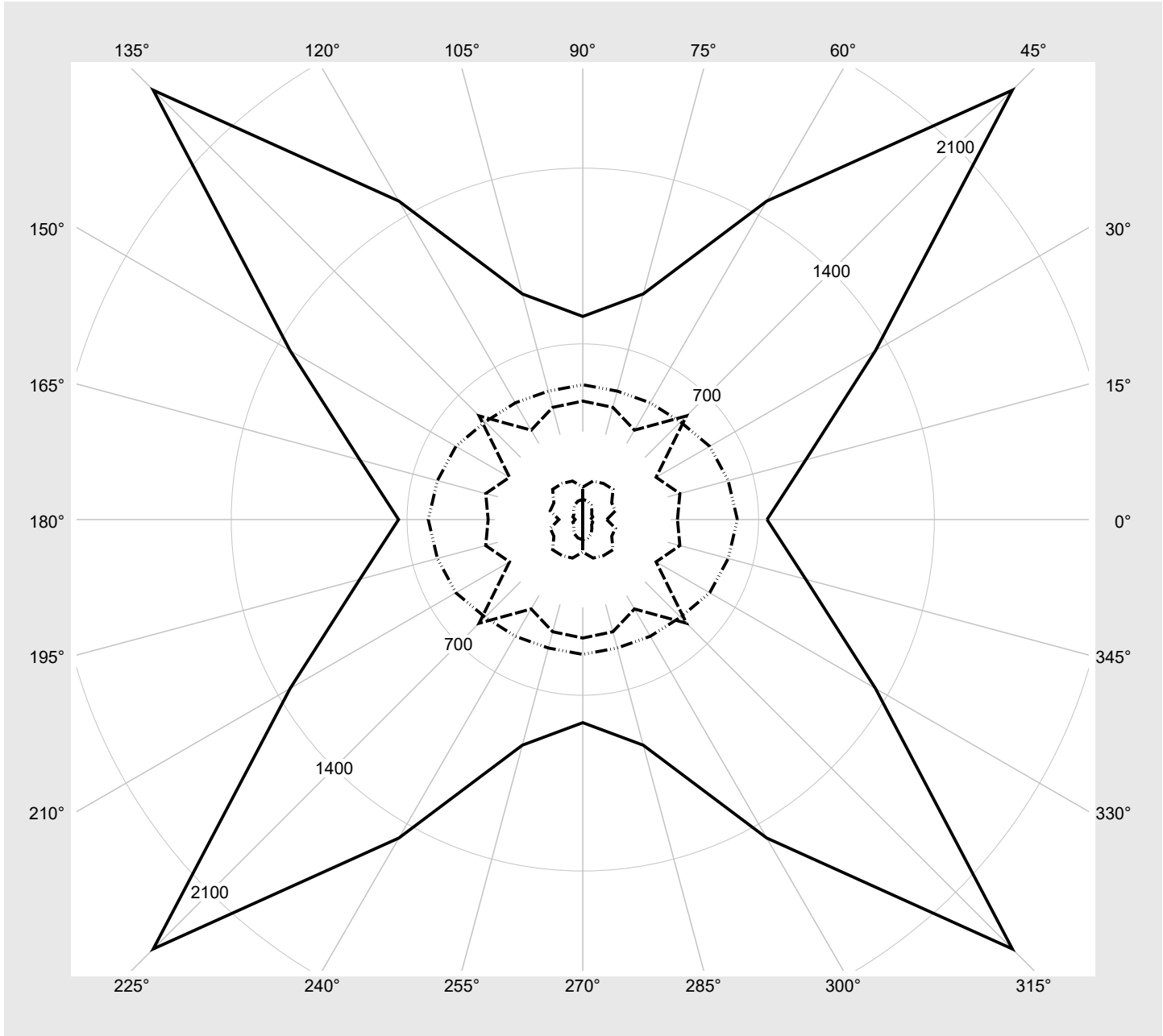
| UGR-Tabelle | | Standardraum | | | | | | | | | |
|-----------------|-----|-------------------------------------|------|------|------|------|---------------------------------------|------|------|------|------|
| Raumabmessungen | | Blickrichtung quer zur Leuchte (C0) | | | | | Blickrichtung längs zur Leuchte (C90) | | | | |
| x | y | | | | | | | | | | |
| 2H | 2H | 14,3 | 15,1 | 15,1 | 15,9 | 17,0 | 14,2 | 15,0 | 15,0 | 15,8 | 16,9 |
| | 3H | 14,0 | 14,7 | 14,9 | 15,6 | 16,7 | 13,9 | 14,6 | 14,8 | 15,5 | 16,6 |
| | 4H | 13,8 | 14,5 | 14,7 | 15,4 | 16,5 | 13,8 | 14,4 | 14,7 | 15,3 | 16,4 |
| | 6H | 13,7 | 14,2 | 14,6 | 15,2 | 16,3 | 13,6 | 14,2 | 14,5 | 15,1 | 16,2 |
| | 8H | 13,6 | 14,1 | 14,5 | 15,0 | 16,2 | 13,5 | 14,0 | 14,4 | 14,9 | 16,1 |
| | 12H | 13,5 | 13,9 | 14,4 | 14,9 | 16,1 | 13,4 | 13,9 | 14,4 | 14,8 | 16,0 |
| 4H | 2H | 14,0 | 14,7 | 14,9 | 15,6 | 16,7 | 13,9 | 14,5 | 14,8 | 15,4 | 16,5 |
| | 3H | 13,7 | 14,3 | 14,7 | 15,2 | 16,4 | 13,6 | 14,2 | 14,5 | 15,1 | 16,2 |
| | 4H | 13,6 | 14,1 | 14,5 | 15,0 | 16,2 | 13,5 | 14,0 | 14,4 | 14,9 | 16,1 |
| | 6H | 13,4 | 13,8 | 14,4 | 14,8 | 16,0 | 13,3 | 13,7 | 14,3 | 14,7 | 15,9 |
| | 8H | 13,3 | 13,7 | 14,3 | 14,6 | 15,9 | 13,2 | 13,6 | 14,2 | 14,6 | 15,8 |
| | 12H | 13,2 | 13,5 | 14,2 | 14,5 | 15,7 | 13,1 | 13,5 | 14,1 | 14,4 | 15,6 |
| 8H | 4H | 13,3 | 13,7 | 14,3 | 14,7 | 15,9 | 13,2 | 13,6 | 14,2 | 14,5 | 15,7 |
| | 6H | 13,2 | 13,5 | 14,2 | 14,5 | 15,7 | 13,0 | 13,3 | 14,0 | 14,3 | 15,6 |
| | 8H | 13,1 | 13,4 | 14,1 | 14,3 | 15,6 | 13,0 | 13,3 | 14,0 | 14,2 | 15,5 |
| | 12H | 13,0 | 13,2 | 14,0 | 14,2 | 15,5 | 12,9 | 13,1 | 13,9 | 14,1 | 15,4 |
| 12H | 4H | 13,2 | 13,6 | 14,2 | 14,5 | 15,7 | 13,1 | 13,4 | 14,1 | 14,4 | 15,6 |
| | 6H | 13,1 | 13,3 | 14,1 | 14,3 | 15,6 | 13,0 | 13,2 | 14,0 | 14,2 | 15,5 |
| | 8H | 13,0 | 13,2 | 14,0 | 14,2 | 15,5 | 12,9 | 13,1 | 13,9 | 14,1 | 15,4 |

| | |
|--|--|
| Leuchtdichten-Tabelle Max. für $\gamma \geq 65^\circ$ | Lichttechnische Abmessungen in mm: L = 1176 B = 49 |
|--|--|

| 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° | | 13822.4 | 13893.0 | 13438.6 | 13172.6 | 13704.8 | 13693.4 | 13008.3 |
| 50° | | 8843.9 | 9071.0 | 9124.1 | 9140.1 | 9376.2 | 8994.2 | 8469.3 |
| 55° | | 5508.6 | 5731.1 | 5994.9 | 6159.7 | 6219.2 | 5673.8 | 5283.4 |
| 60° | | 1998.9 | 2426.0 | 3679.7 | 3986.3 | 3824.6 | 2675.4 | 2167.9 |
| 65° | | 733.7 | 919.3 | 1345.9 | 2419.0 | 1465.0 | 930.7 | 809.1 |
| 70° | | 376.9 | 400.2 | 337.0 | 584.1 | 411.3 | 462.7 | 472.0 |
| 75° | | 95.3 | 134.4 | 133.0 | 170.1 | 165.7 | 158.9 | 129.5 |
| 80° | | 30.6 | 40.8 | 40.8 | 51.0 | 66.3 | 75.8 | 80.9 |
| 85° | | 615.5 | 599.5 | 583.5 | 550.1 | 537.1 | 529.8 | 537.1 |

Lichttechnischer Prüfbefund

| | | |
|---|---|------------------------------|
| Familie Silica® 21 | Bestell-Nr.: 51MX31DA37WB EAN: 4058352886694 | LP-Nummer 59281_75 |
| Leuchtdichten in cd/m² | | siteco |
| <div style="display: flex; justify-content: space-around;"> γ 65° γ 70° γ 75° γ 80° γ 85° </div> | | |



Lichttechnischer Prüfbefund

| | | |
|------------------------------|---|-------------------------------------|
| Familie Silica® 21 | Bestell-Nr.: 51MX31DA37WB EAN: 4058352886694 | LP-Nummer 59281_75 |
|------------------------------|---|-------------------------------------|

| | | |
|---------------------------|---------------------------|---------------|
| Dimmstufen-Tabelle | Umgebungstemperatur: 25°C | sITeco |
|---------------------------|---------------------------|---------------|

| Lichtstrom [%] | Dimmstufe linear | Dimmstufe logarithmisch | Lichtstrom [lm] | Systemleistung [W] |
|----------------|------------------|-------------------------|-----------------|--------------------|
| 100 | 254 | 254 | 7290 | 46.8 |
| 95 | 240 | 252 | 6913 | 44.3 |
| 90 | 227 | 250 | 6560 | 42.0 |
| 85 | 214 | 248 | 6204 | 39.6 |
| 80 | 201 | 245 | 5845 | 37.2 |
| 75 | 187 | 243 | 5456 | 34.7 |
| 70 | 174 | 240 | 5091 | 32.4 |
| 65 | 161 | 237 | 4726 | 30.1 |
| 60 | 149 | 234 | 4385 | 27.9 |
| 55 | 136 | 231 | 4014 | 25.6 |
| 50 | 123 | 227 | 3639 | 23.3 |
| 45 | 111 | 224 | 3292 | 21.2 |
| 40 | 98 | 219 | 2913 | 18.9 |
| 35 | 86 | 214 | 2562 | 16.8 |
| 30 | 73 | 208 | 2178 | 14.5 |
| 25 | 61 | 202 | 1821 | 12.5 |
| 20 | 49 | 194 | 1463 | 10.3 |
| 15 | 37 | 183 | 1104 | 8.2 |
| 10 | 25 | 169 | 743 | 6.1 |
| 5 | 12 | 142 | 350 | 4.0 |
| 2 | 5 | 110 | 137 | 3.4 |