

Lichttechnischer Prüfbefund

Familie
Silica® 21

Bestell-Nr.: 51MX6KDU34W
EAN: 4058352988862

LP-Nummer
59266_197



Ausführung Einbauleuchte für Einlegemontage, weiß, quadratisch M625, Reflektor, schwarz, breit strahlend, UGR≤19 (L65≤1000cd/m²)

Bestückung LED 3000 K | CRI ≥ 80

Betriebsgerät EVG-DALI

Bemessungswerte
Nettolichtstrom = 4600 lm
Systemleistung = 31.9 W
Lichtausbeute = 144.2 lm/W

Seriendokumentation
20.10.2023

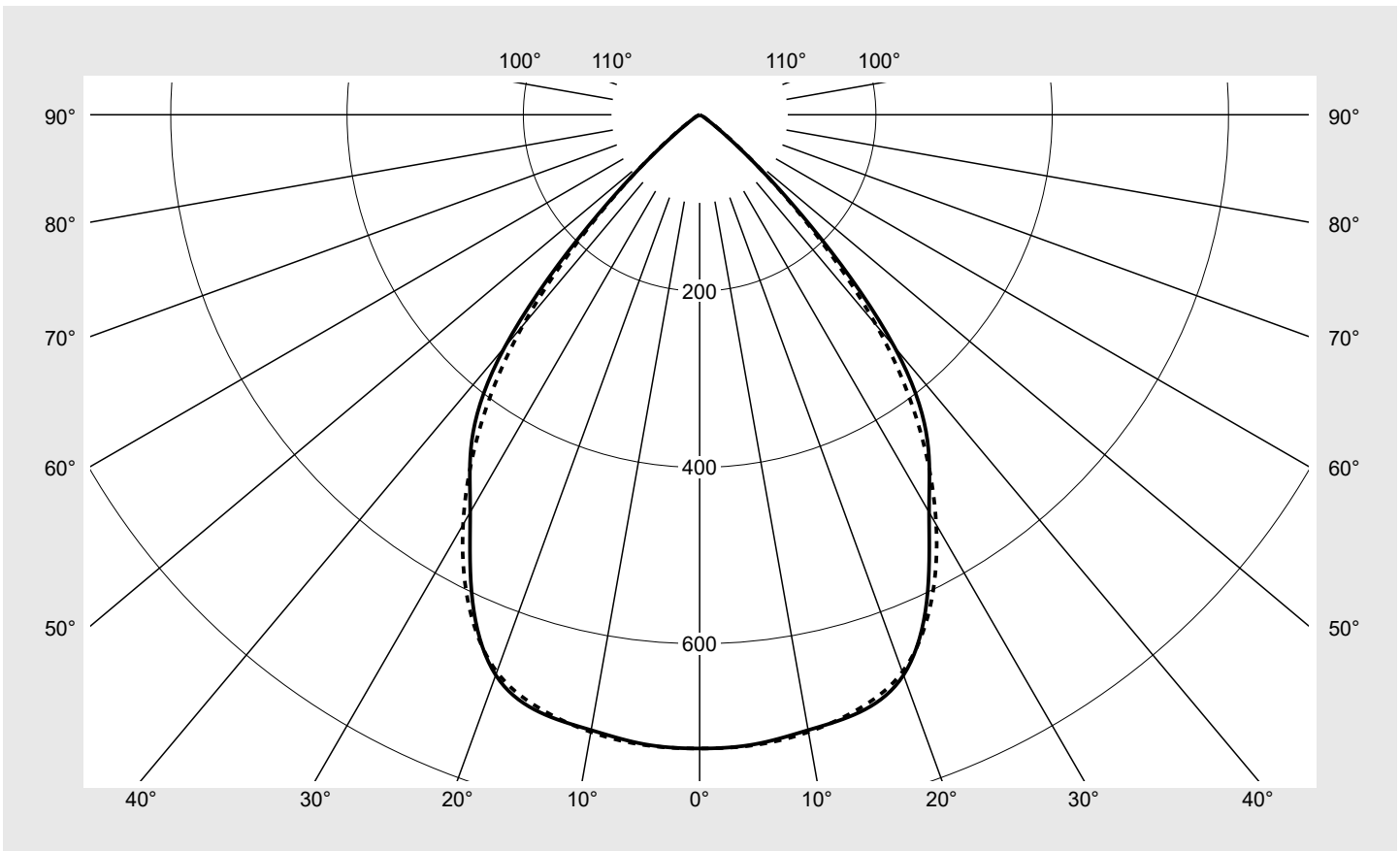
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Lichtstärke in cd/klm

C180-0

C270-90

Imax: 719 cd/klm



Klassifizierungen

DIN 5040 A 6 0
CIE N1=86 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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| | | |
|--|--|--------------------------------------|
| Familie Silica® 21 | Bestell-Nr.: 51MX6KDU34W EAN: 4058352988862 | LP-Nummer 59266_197 |
| Wertetabelle Lichtstärkemessung | | Maximale Lichtstärke |
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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° | | | |
| Lichtstärke in cd/klm | | | | | | | | Lichtstrom in lm/klm | |
| γ | | | | | | | | | |
| 0° | 718.8 | 718.8 | 718.8 | 718.8 | 718.8 | 718.8 | 718.8 | 4.3 | 4.3 |
| 5° | 716.8 | 715.7 | 712.2 | 716.2 | 717.8 | 715.2 | 717.7 | 34.2 | 38.5 |
| 10° | 708.8 | 709.0 | 703.3 | 708.6 | 709.9 | 707.6 | 710.9 | 67.4 | 105.9 |
| 15° | 701.5 | 704.3 | 697.3 | 698.3 | 698.8 | 696.7 | 697.6 | 99.2 | 205.1 |
| 20° | 676.3 | 682.5 | 681.1 | 681.0 | 677.6 | 673.2 | 672.5 | 127.2 | 332.2 |
| 25° | 609.5 | 618.9 | 627.5 | 636.4 | 634.5 | 625.9 | 617.8 | 145.0 | 477.3 |
| 30° | 520.6 | 528.9 | 533.1 | 542.9 | 550.7 | 541.7 | 536.8 | 147.4 | 624.6 |
| 35° | 450.5 | 455.7 | 444.2 | 436.3 | 445.0 | 443.0 | 435.2 | 139.8 | 764.4 |
| 40° | 343.9 | 350.9 | 343.2 | 332.9 | 329.4 | 321.5 | 312.0 | 117.8 | 882.2 |
| 45° | 178.2 | 185.2 | 190.8 | 192.2 | 186.9 | 176.3 | 167.1 | 71.3 | 953.5 |
| 50° | 59.7 | 64.4 | 73.8 | 78.7 | 75.2 | 68.1 | 63.7 | 29.5 | 983.0 |
| 55° | 15.6 | 18.5 | 24.7 | 31.2 | 26.2 | 20.2 | 17.4 | 10.3 | 993.3 |
| 60° | 6.1 | 6.8 | 9.1 | 12.2 | 9.8 | 7.7 | 7.0 | 4.1 | 997.4 |
| 65° | 2.1 | 2.4 | 3.4 | 4.3 | 3.8 | 3.0 | 2.8 | 1.6 | 999.0 |
| 70° | 1.4 | 1.4 | 1.0 | 1.0 | 1.2 | 1.5 | 1.5 | 0.7 | 999.7 |
| 75° | 0.3 | 0.4 | 0.3 | 0.4 | 0.4 | 0.5 | 0.4 | 0.2 | 999.9 |
| 80° | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.1 | 999.9 |
| 85° | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.1 | 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 | | | | | | | | | |
|-----------------|-----|-------------------------------------|------|------|------|------|---------------------------------------|------|------|------|------|
| | | Blickrichtung quer zur Leuchte (C0) | | | | | Blickrichtung längs zur Leuchte (C90) | | | | |
| Raumabmessungen | | | | | | | | | | | |
| x | y | | | | | | | | | | |
| 2H | 2H | 19,3 | 20,5 | 19,6 | 20,9 | 21,2 | 19,1 | 20,4 | 19,4 | 20,7 | 21,0 |
| | 3H | 19,1 | 20,2 | 19,5 | 20,6 | 20,9 | 18,9 | 20,1 | 19,3 | 20,4 | 20,8 |
| | 4H | 19,1 | 20,1 | 19,5 | 20,4 | 20,8 | 18,9 | 19,9 | 19,3 | 20,3 | 20,6 |
| | 6H | 19,0 | 19,9 | 19,4 | 20,3 | 20,7 | 18,8 | 19,7 | 19,2 | 20,1 | 20,5 |
| | 8H | 19,0 | 19,8 | 19,5 | 20,2 | 20,6 | 18,9 | 19,7 | 19,3 | 20,1 | 20,5 |
| | 12H | 19,0 | 19,7 | 19,4 | 20,1 | 20,6 | 18,8 | 19,6 | 19,3 | 20,0 | 20,4 |
| 4H | 2H | 19,1 | 20,1 | 19,5 | 20,5 | 20,8 | 18,9 | 19,9 | 19,3 | 20,3 | 20,7 |
| | 3H | 18,9 | 19,8 | 19,3 | 20,2 | 20,6 | 18,7 | 19,6 | 19,2 | 20,0 | 20,4 |
| | 4H | 18,8 | 19,6 | 19,3 | 20,0 | 20,4 | 18,7 | 19,4 | 19,1 | 19,8 | 20,3 |
| | 6H | 18,7 | 19,4 | 19,2 | 19,8 | 20,3 | 18,6 | 19,2 | 19,0 | 19,6 | 20,1 |
| | 8H | 18,7 | 19,3 | 19,2 | 19,7 | 20,2 | 18,5 | 19,1 | 19,0 | 19,6 | 20,0 |
| | 12H | 18,7 | 19,2 | 19,2 | 19,6 | 20,1 | 18,5 | 19,0 | 19,0 | 19,5 | 20,0 |
| 8H | 4H | 18,7 | 19,3 | 19,2 | 19,7 | 20,2 | 18,5 | 19,1 | 19,0 | 19,6 | 20,0 |
| | 6H | 18,6 | 19,1 | 19,1 | 19,5 | 20,1 | 18,4 | 18,9 | 18,9 | 19,4 | 19,9 |
| | 8H | 18,5 | 19,0 | 19,1 | 19,4 | 20,0 | 18,4 | 18,8 | 18,9 | 19,3 | 19,8 |
| | 12H | 18,5 | 18,8 | 19,0 | 19,3 | 19,9 | 18,3 | 18,7 | 18,9 | 19,2 | 19,7 |
| 12H | 4H | 18,7 | 19,2 | 19,2 | 19,6 | 20,1 | 18,5 | 19,0 | 19,0 | 19,5 | 20,0 |
| | 6H | 18,6 | 19,0 | 19,1 | 19,4 | 20,0 | 18,4 | 18,8 | 18,9 | 19,3 | 19,8 |
| | 8H | 18,5 | 18,8 | 19,0 | 19,3 | 19,9 | 18,3 | 18,7 | 18,9 | 19,2 | 19,7 |

| | | | |
|------------------------------|---------------------------------|------------------------------------|--------------------|
| Leuchtdichten-Tabelle | Max. für $\gamma \geq 65^\circ$ | Lichttechnische Abmessungen in mm: | L = 294 B = 196 |
|------------------------------|---------------------------------|------------------------------------|--------------------|

| 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° | | 20118.4 | 20912.3 | 21535.7 | 21699.5 | 21100.8 | 19897.6 | 18867.6 | |
| 50° | | 7419.0 | 8002.9 | 9160.5 | 9769.5 | 9333.9 | 8459.8 | 7916.6 | |
| 55° | | 2172.4 | 2572.8 | 3432.3 | 4346.6 | 3644.2 | 2815.2 | 2422.4 | |
| 60° | | 973.7 | 1088.5 | 1459.6 | 1947.3 | 1570.7 | 1229.0 | 1112.3 | |
| 65° | | 397.4 | 456.9 | 634.3 | 802.8 | 715.1 | 563.6 | 521.0 | |
| 70° | | 316.3 | 330.3 | 244.1 | 229.0 | 276.1 | 355.2 | 358.0 | |
| 75° | | 87.9 | 117.2 | 95.3 | 133.9 | 122.8 | 146.8 | 128.3 | |
| 80° | | 22.1 | 22.1 | 32.6 | 49.2 | 65.7 | 76.3 | 87.3 | |
| 85° | | 22.0 | 38.5 | 48.5 | 87.0 | 125.5 | 152.0 | 163.0 | |

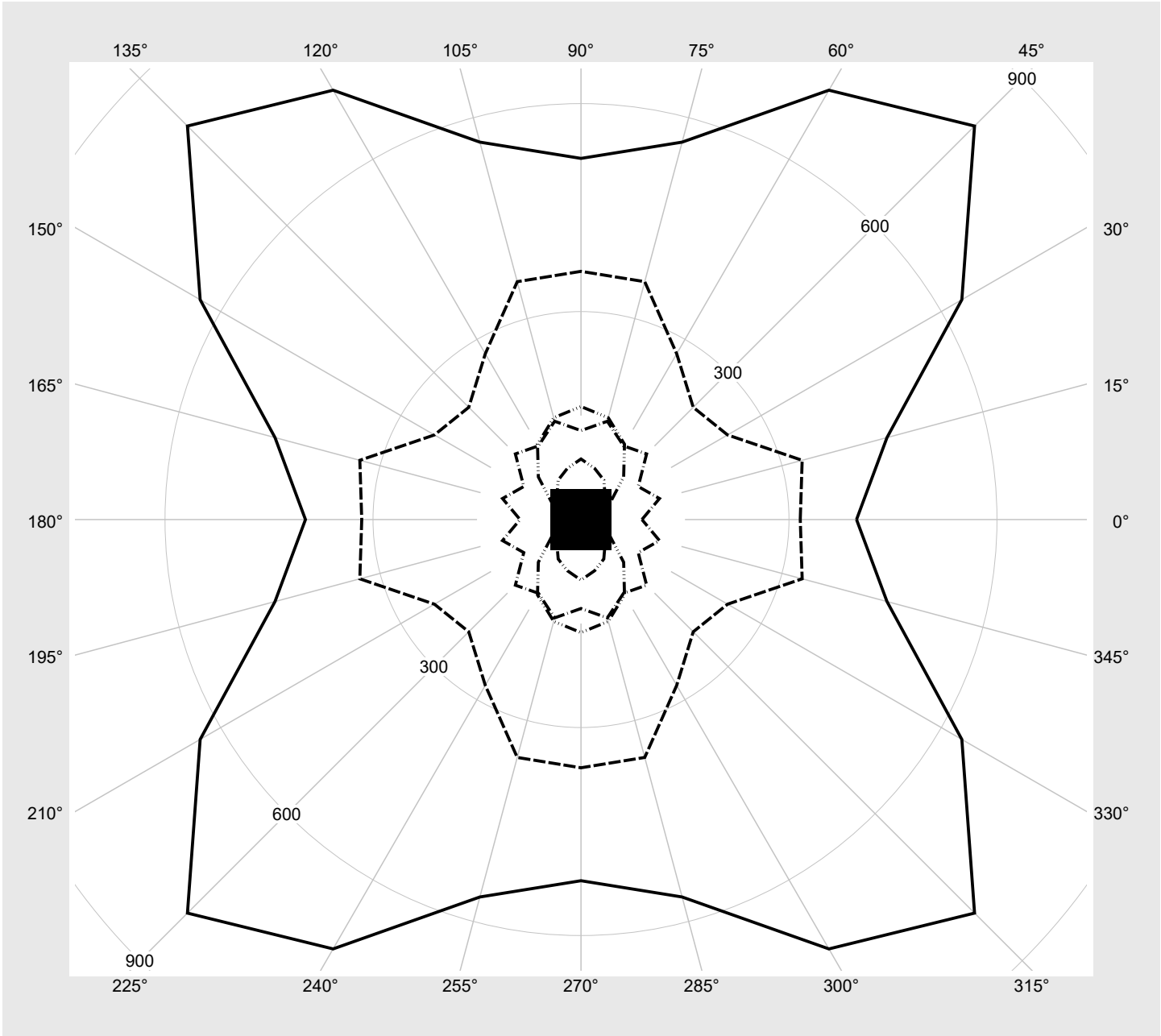
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Leuchtdichten in cd/m²

| | | | | |
|--------------|--------------|--------------|--------------|--------------|
| γ 65° | γ 70° | γ 75° | γ 80° | γ 85° |
|--------------|--------------|--------------|--------------|--------------|

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

| Lichtstrom [%] | Dimmstufe linear | Dimmstufe logarithmisch | Lichtstrom [lm] | Systemleistung [W] |
|----------------|------------------|-------------------------|-----------------|--------------------|
| 100 | 254 | 254 | 4600 | 31.9 |
| 95 | 240 | 252 | 4371 | 30.1 |
| 90 | 226 | 250 | 4137 | 28.5 |
| 85 | 212 | 247 | 3902 | 26.8 |
| 80 | 199 | 245 | 3681 | 25.2 |
| 75 | 186 | 243 | 3456 | 23.5 |
| 70 | 172 | 240 | 3212 | 21.9 |
| 65 | 159 | 237 | 2984 | 20.4 |
| 60 | 146 | 234 | 2752 | 18.8 |
| 55 | 134 | 231 | 2536 | 17.4 |
| 50 | 121 | 227 | 2299 | 15.9 |
| 45 | 109 | 223 | 2079 | 14.5 |
| 40 | 96 | 218 | 1839 | 12.8 |
| 35 | 84 | 213 | 1614 | 11.3 |
| 30 | 72 | 208 | 1387 | 9.9 |
| 25 | 60 | 201 | 1159 | 8.5 |
| 20 | 48 | 193 | 928 | 7.1 |
| 15 | 36 | 182 | 697 | 5.7 |
| 10 | 24 | 168 | 462 | 4.4 |
| 5 | 12 | 142 | 228 | 3.0 |
| 2 | 4 | 102 | 70 | 2.0 |