

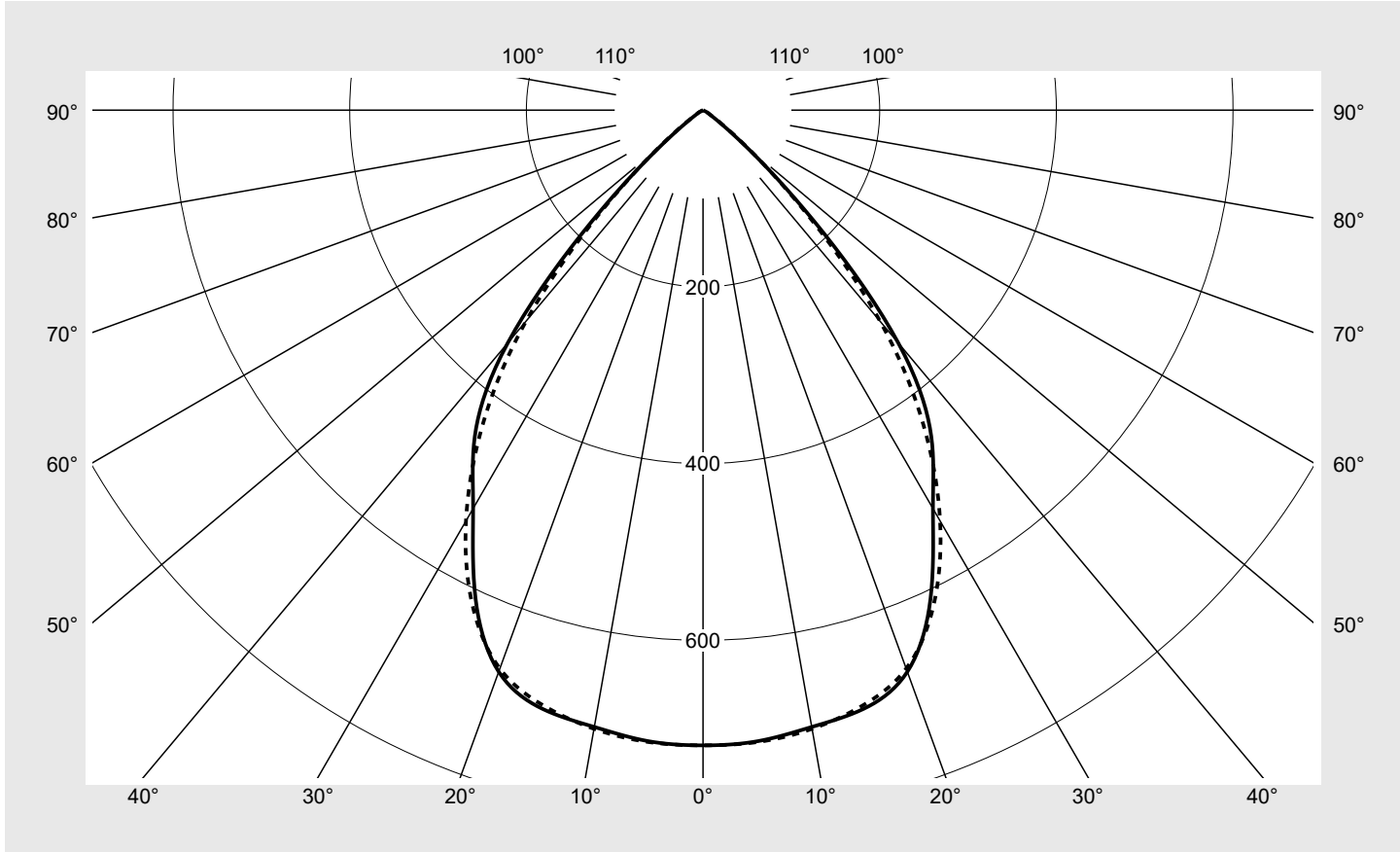


Photometric test report

| | | |
|---|---|--|
| Family Silica® 21 | Order number: 51MX22DB45WB EAN: 4058352898840 | LP number 59266_150 |
|  | Version surface-mounted luminaire, reflector, black, direct distribution, wide distribution, UGR≤19 (L65≤1000cd/m²) | serial documentation 02.08.2023 |
| | Lamps LED 4000 K CRI ≥ 80 Controlgear ECG-DALI Rated values Net luminous flux = 5400 lm Power consumption = 32.0 W Luminous efficacy = 168.7 lm/W | |
|  | | |

Luminous intensity in cd/klm C180-0 C270-90 **Imax: 719 cd/klm**



| Classifications | |
|-----------------|--------------------------------------|
| DIN 5040 | A 6 0 |
| CIE | N1=86 N2=100 N3=100 N4=100 N5=100 |

| Luminaire light output ratios | |
|-------------------------------|--------|
| η_{LB} | 100.0% |
| ϕ_u | 100.0% |
| ϕ_o | 0.0% |

Measurement conditions
 DIN EN 13032 and DIN 5032

Photometric test report

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| Family Silica® 21 | Order number: 51MX22DB45WB EAN: 4058352898840 | LP number 59266_150 |
| Table of values for luminous intensities | | Maximum luminous intensity |
| | | siteco |

| C-planes γ | 0° 180° | 15° | 30° | 45° | 60° | 75° | 90° 270° | Phi-zone | Total Phi-zone |
|------------------------------|------------|----------------------|----------------------|----------------------|----------------------|----------------------|-------------|-------------------------|-------------------|
| | | 165° 195° 345° | 150° 210° 330° | 135° 225° 315° | 120° 240° 300° | 105° 255° 285° | | | |
| Luminous intensity in cd/klm | | | | | | | | Luminous flux in lm/klm | |
| 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-Table | Standard room | siteco |
|------------------|----------------------|---------------|

| | | | | | | | | | | | |
|------------------------------|---------------------|------|------|------|------|--------------------|------|------|------|------|------|
| Reflection factor of ceiling | 0.7 | 0.7 | 0.5 | 0.5 | 0.3 | 0.7 | 0.7 | 0.5 | 0.5 | 0.3 | |
| Reflection factor of walls | 0.5 | 0.3 | 0.5 | 0.3 | 0.3 | 0.5 | 0.3 | 0.5 | 0.3 | 0.3 | |
| Reflection factor of floor | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | |
| Room dimensions | View crosswise (C0) | | | | | View endwise (C90) | | | | | |
| x | y | | | | | | | | | | |
| 2H | 2H | 19.0 | 20.3 | 19.4 | 20.6 | 21.0 | 18.9 | 20.2 | 19.2 | 20.5 | 20.8 |
| | 3H | 18.9 | 20.0 | 19.3 | 20.4 | 20.7 | 18.7 | 19.9 | 19.1 | 20.2 | 20.6 |
| | 4H | 18.8 | 19.9 | 19.2 | 20.2 | 20.6 | 18.7 | 19.7 | 19.1 | 20.1 | 20.4 |
| | 6H | 18.8 | 19.7 | 19.2 | 20.1 | 20.5 | 18.6 | 19.5 | 19.0 | 19.9 | 20.3 |
| | 8H | 18.8 | 19.6 | 19.2 | 20.0 | 20.4 | 18.6 | 19.4 | 19.1 | 19.8 | 20.2 |
| | 12H | 18.8 | 19.5 | 19.2 | 19.9 | 20.3 | 18.6 | 19.4 | 19.0 | 19.7 | 20.2 |
| 4H | 2H | 18.9 | 19.9 | 19.3 | 20.2 | 20.6 | 18.7 | 19.7 | 19.1 | 20.1 | 20.4 |
| | 3H | 18.7 | 19.5 | 19.1 | 19.9 | 20.4 | 18.5 | 19.4 | 19.0 | 19.8 | 20.2 |
| | 4H | 18.6 | 19.4 | 19.1 | 19.8 | 20.2 | 18.4 | 19.2 | 18.9 | 19.6 | 20.0 |
| | 6H | 18.5 | 19.2 | 19.0 | 19.6 | 20.1 | 18.4 | 19.0 | 18.8 | 19.4 | 19.9 |
| | 8H | 18.5 | 19.1 | 19.0 | 19.5 | 20.0 | 18.3 | 18.9 | 18.8 | 19.3 | 19.8 |
| | 12H | 18.5 | 19.0 | 19.0 | 19.4 | 19.9 | 18.3 | 18.8 | 18.8 | 19.2 | 19.7 |
| 8H | 4H | 18.5 | 19.1 | 19.0 | 19.5 | 20.0 | 18.3 | 18.9 | 18.8 | 19.3 | 19.8 |
| | 6H | 18.4 | 18.8 | 18.9 | 19.3 | 19.8 | 18.2 | 18.7 | 18.7 | 19.2 | 19.7 |
| | 8H | 18.3 | 18.7 | 18.8 | 19.2 | 19.8 | 18.2 | 18.6 | 18.7 | 19.1 | 19.6 |
| | 12H | 18.3 | 18.6 | 18.8 | 19.1 | 19.7 | 18.1 | 18.5 | 18.7 | 19.0 | 19.5 |
| 12H | 4H | 18.5 | 19.0 | 19.0 | 19.4 | 19.9 | 18.3 | 18.8 | 18.8 | 19.2 | 19.7 |
| | 6H | 18.4 | 18.7 | 18.9 | 19.2 | 19.8 | 18.2 | 18.6 | 18.7 | 19.1 | 19.6 |
| | 8H | 18.3 | 18.6 | 18.8 | 19.1 | 19.7 | 18.1 | 18.5 | 18.7 | 19.0 | 19.5 |

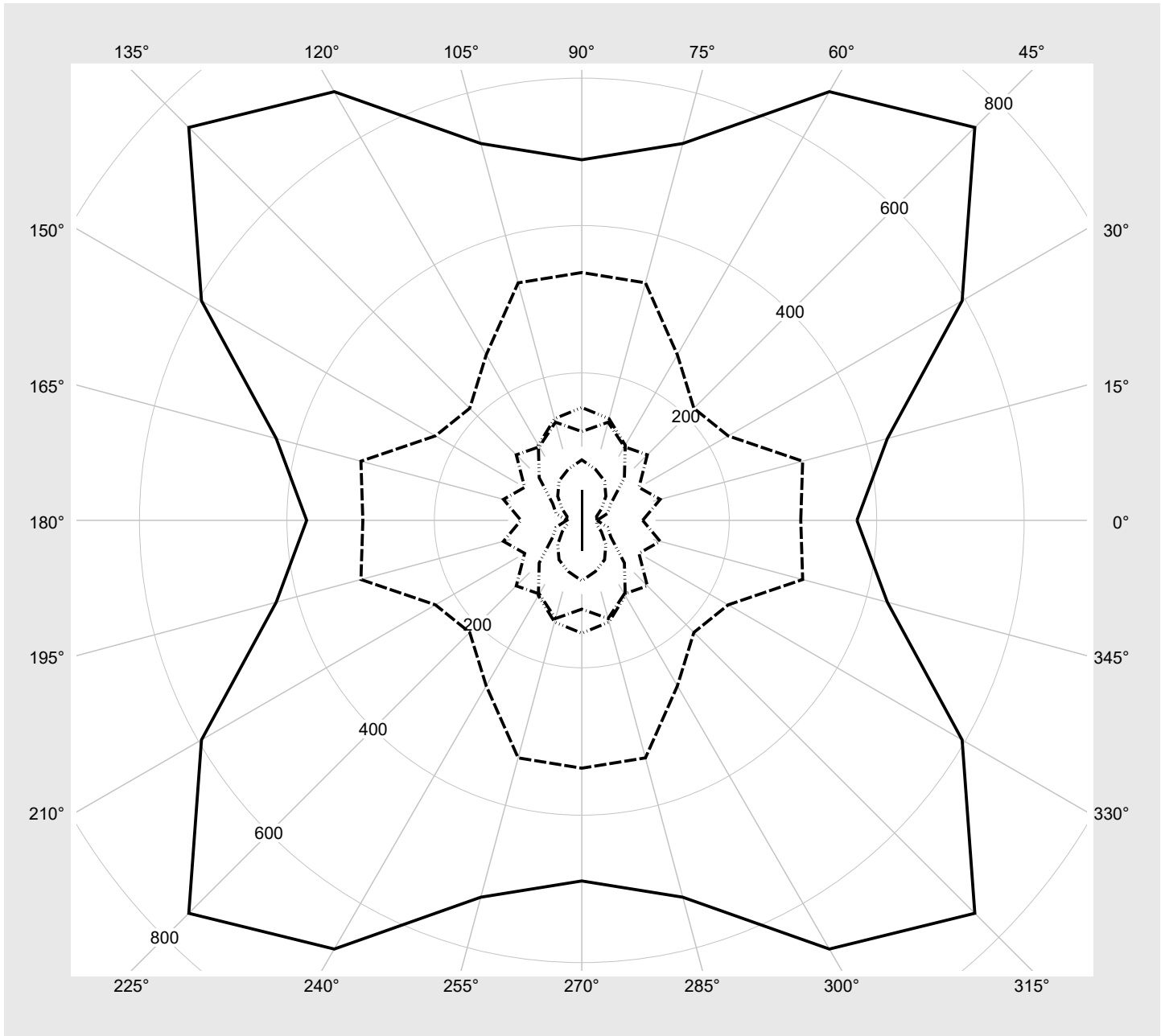
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|------------------------|---|--------------------------------------|-----------------|
| Luminance table | Max. for $\gamma \geq 65^\circ$ | Photometric dimensions in mm: | L = 1470 |
| | | | B = 49 |

| C-planes | γ | Luminance 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° | | 18893.8 | 19639.4 | 20224.8 | 20378.7 | 19816.4 | 18686.5 | 17719.1 | |
| 50° | | 6967.4 | 7515.8 | 8602.9 | 9174.9 | 8765.7 | 7944.9 | 7434.7 | |
| 55° | | 2040.2 | 2416.2 | 3223.4 | 4082.0 | 3422.4 | 2643.9 | 2274.9 | |
| 60° | | 914.5 | 1022.3 | 1370.7 | 1828.8 | 1475.1 | 1154.2 | 1044.6 | |
| 65° | | 373.2 | 429.1 | 595.7 | 753.9 | 671.6 | 529.3 | 489.2 | |
| 70° | | 297.0 | 310.2 | 229.3 | 215.0 | 259.3 | 333.6 | 336.2 | |
| 75° | | 82.6 | 110.1 | 89.5 | 125.7 | 115.3 | 137.9 | 120.5 | |
| 80° | | 20.7 | 20.7 | 30.7 | 46.2 | 61.7 | 71.7 | 82.0 | |
| 85° | | 20.6 | 36.1 | 45.6 | 81.7 | 117.8 | 142.8 | 153.1 | |

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Luminance values in cd/m² γ 65° γ 70° γ 75° γ 80° γ 85° **siteco**



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|-----------------------------|---------------------------------|---------------|
| Dimming levels table | environmental temperature: 25°C | sITeco |
|-----------------------------|---------------------------------|---------------|

| Luminous flux % | Dimming level linear | Dimming level logarithmic | Luminous flux [lm] | Power consumption [W] |
|-----------------|----------------------|---------------------------|--------------------|-----------------------|
| 100 | 254 | 254 | 5400 | 32.0 |
| 95 | 241 | 252 | 5139 | 30.2 |
| 90 | 227 | 250 | 4853 | 28.4 |
| 85 | 214 | 248 | 4589 | 26.8 |
| 80 | 201 | 245 | 4323 | 25.2 |
| 75 | 188 | 243 | 4055 | 23.5 |
| 70 | 175 | 240 | 3785 | 21.9 |
| 65 | 162 | 238 | 3513 | 20.3 |
| 60 | 149 | 234 | 3239 | 18.7 |
| 55 | 136 | 231 | 2962 | 17.1 |
| 50 | 124 | 228 | 2707 | 15.6 |
| 45 | 111 | 224 | 2429 | 14.0 |
| 40 | 99 | 219 | 2170 | 12.5 |
| 35 | 86 | 214 | 1888 | 11.0 |
| 30 | 74 | 209 | 1628 | 9.6 |
| 25 | 61 | 202 | 1343 | 8.2 |
| 20 | 49 | 194 | 1079 | 6.8 |
| 15 | 37 | 183 | 812 | 5.4 |
| 10 | 25 | 169 | 546 | 4.0 |
| 5 | 13 | 145 | 279 | 2.5 |
| 3 | 8 | 127 | 167 | 1.5 |