

Lichttechnischer Prüfbefund

Familie
Silica® 21

Bestell-Nr.: 51MX20DA42SB
EAN: 4058352898581

LP-Nummer
59411_227



Ausführung Anbauleuchte, homogen leuchtend,
Abdeckung, opal, direkt strahlend, extrem breit
strahlend

Bestückung LED 4000 K | CRI ≥ 80

Betriebsgerät EVG-DALI

Bemessungswerte Nettolichtstrom = 2400 lm
Systemleistung = 15.2 W
Lichtausbeute = 158 lm/W

Seriendokumentation
02.08.2023

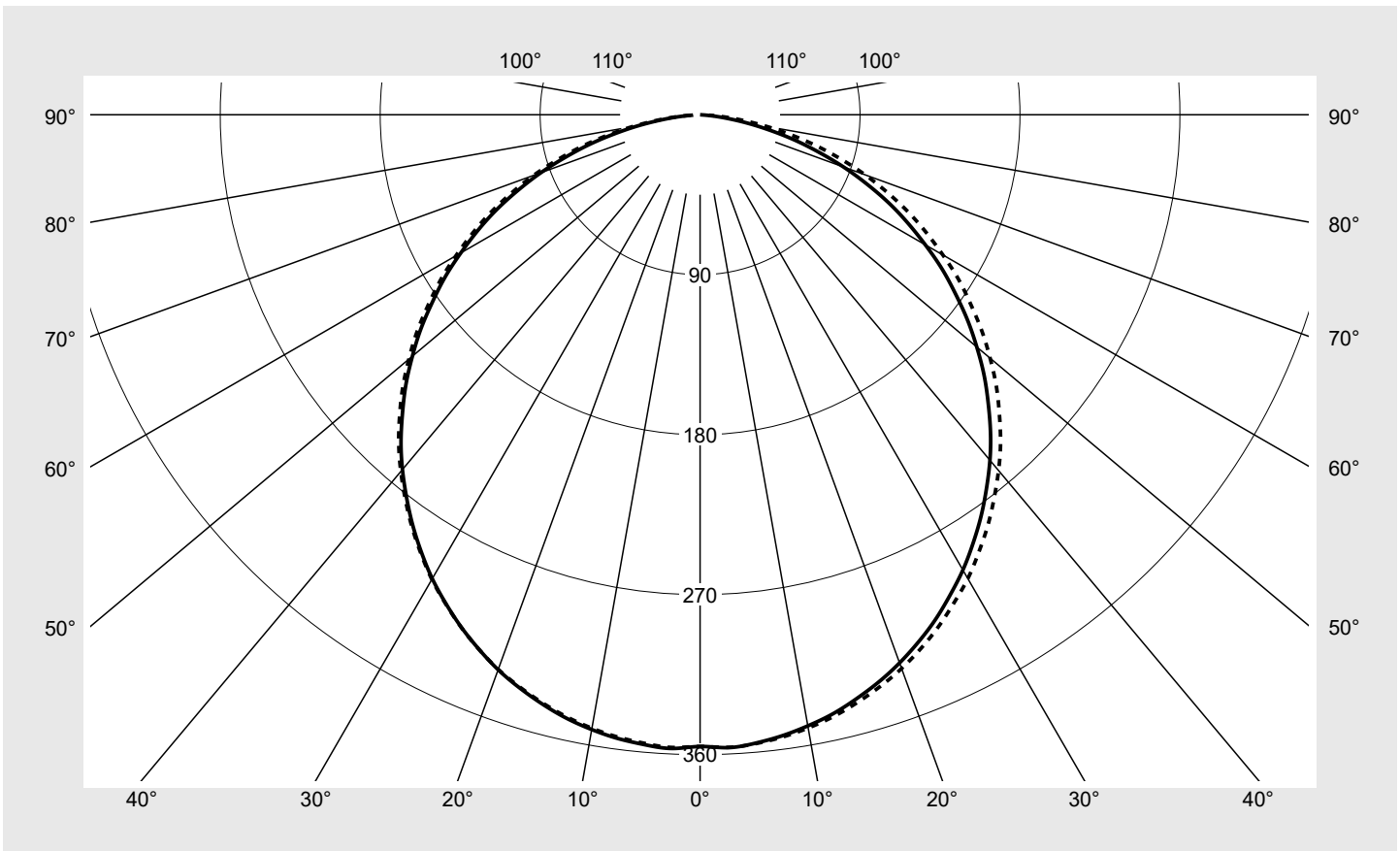
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Lichtstärke in cd/klm

C180-0

C270-90

Imax: 357 cd/klm



Klassifizierungen

DIN 5040 A 4 0
CIE N1=48 N2=79 N3=96
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.: 51MX20DA42SB EAN: 4058352898581 | LP-Nummer 59411_227 |
| Wertetabelle Lichtstärkemessung | | Maximale Lichtstärke |
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| C- Ebenen | 0,0° | 7,5° | 15,0° | 22,5° | 30,0° | 37,5° | 45,0° | 52,5° | 60,0° | 67,5° | 75,0° | 82,5° | 90,0° | 97,5° |
|--------------|-----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| γ | Lichtstärke in cd/klm | | | | | | | | | | | | | |
| 0,0° | 355.4 | 355.4 | 355.4 | 355.4 | 355.4 | 355.4 | 355.4 | 355.4 | 355.4 | 355.4 | 355.4 | 355.4 | 355.4 | 355.4 |
| 2,5° | 356.4 | 355.8 | 356.2 | 353.4 | 352.1 | 352.5 | 353.4 | 355.3 | 355.9 | 356.2 | 355.9 | 356.5 | 356.3 | 355.3 |
| 5,0° | 355.0 | 354.3 | 354.7 | 351.9 | 350.7 | 351.1 | 352.1 | 354.0 | 354.7 | 354.8 | 354.6 | 355.3 | 355.2 | 354.2 |
| 7,5° | 352.5 | 351.9 | 352.3 | 349.8 | 348.5 | 348.9 | 349.9 | 351.8 | 352.6 | 352.6 | 352.7 | 353.3 | 353.2 | 352.1 |
| 10,0° | 349.1 | 348.7 | 349.1 | 346.5 | 345.3 | 345.7 | 346.8 | 348.6 | 349.7 | 349.5 | 349.8 | 350.5 | 350.3 | 349.4 |
| 12,5° | 345.2 | 344.9 | 345.2 | 342.8 | 341.6 | 342.0 | 343.0 | 344.9 | 346.1 | 345.7 | 346.1 | 346.8 | 346.8 | 345.8 |
| 15,0° | 340.1 | 339.9 | 340.4 | 337.9 | 336.8 | 337.2 | 338.2 | 340.0 | 341.2 | 341.1 | 341.4 | 342.4 | 342.3 | 341.4 |
| 17,5° | 334.5 | 334.3 | 334.8 | 332.6 | 331.3 | 331.9 | 332.9 | 334.5 | 336.0 | 335.8 | 336.3 | 337.1 | 337.2 | 336.4 |
| 20,0° | 328.2 | 328.1 | 328.8 | 326.4 | 325.4 | 325.6 | 327.1 | 328.3 | 330.1 | 329.6 | 330.4 | 331.1 | 331.5 | 330.4 |
| 22,5° | 321.1 | 321.1 | 321.7 | 319.6 | 318.6 | 318.8 | 320.0 | 321.5 | 323.3 | 322.7 | 323.5 | 324.7 | 324.9 | 324.0 |
| 25,0° | 313.4 | 313.3 | 314.2 | 311.9 | 311.2 | 311.1 | 312.6 | 313.6 | 315.7 | 315.2 | 316.3 | 317.1 | 317.6 | 316.5 |
| 27,5° | 304.7 | 305.2 | 305.7 | 303.9 | 302.8 | 303.1 | 304.2 | 305.6 | 307.3 | 307.2 | 308.1 | 309.4 | 309.5 | 308.8 |
| 30,0° | 295.8 | 296.4 | 297.0 | 295.3 | 294.5 | 294.3 | 295.8 | 296.8 | 298.7 | 298.5 | 299.5 | 300.8 | 301.3 | 300.4 |
| 32,5° | 285.9 | 286.6 | 287.3 | 285.9 | 284.9 | 284.6 | 286.1 | 287.2 | 288.7 | 288.9 | 290.0 | 291.3 | 291.9 | 291.2 |
| 35,0° | 275.7 | 276.7 | 277.2 | 276.3 | 275.1 | 274.8 | 276.4 | 277.4 | 278.8 | 279.1 | 280.1 | 281.7 | 282.2 | 281.6 |
| 37,5° | 264.8 | 265.6 | 266.5 | 265.5 | 264.6 | 264.2 | 265.9 | 266.7 | 268.2 | 268.5 | 269.5 | 271.0 | 271.8 | 271.2 |
| 40,0° | 253.7 | 254.7 | 255.4 | 254.7 | 253.9 | 253.4 | 255.1 | 256.0 | 257.2 | 257.7 | 258.7 | 260.5 | 261.3 | 260.7 |
| 42,5° | 241.9 | 242.6 | 243.6 | 242.7 | 242.4 | 241.5 | 243.6 | 244.3 | 245.6 | 245.8 | 247.3 | 248.9 | 250.3 | 249.1 |
| 45,0° | 229.3 | 230.7 | 231.1 | 230.9 | 230.3 | 229.9 | 231.3 | 232.4 | 233.3 | 234.0 | 235.1 | 237.1 | 238.2 | 237.5 |
| 47,5° | 216.7 | 217.6 | 218.4 | 217.9 | 218.3 | 217.3 | 219.1 | 219.7 | 221.2 | 221.1 | 222.7 | 224.3 | 226.1 | 224.7 |
| 50,0° | 203.2 | 204.6 | 204.8 | 204.9 | 205.3 | 204.6 | 206.0 | 206.9 | 208.2 | 208.3 | 209.7 | 211.6 | 213.0 | 211.9 |
| 52,5° | 189.7 | 191.2 | 191.1 | 191.7 | 192.2 | 191.5 | 192.7 | 193.9 | 195.2 | 195.2 | 196.5 | 198.5 | 199.9 | 198.9 |
| 55,0° | 175.3 | 176.9 | 176.8 | 177.5 | 178.1 | 177.7 | 178.9 | 180.0 | 181.4 | 181.4 | 182.7 | 184.4 | 185.9 | 184.9 |
| 57,5° | 161.4 | 162.7 | 162.8 | 163.6 | 164.4 | 164.3 | 165.3 | 166.2 | 167.8 | 167.7 | 169.2 | 170.7 | 172.5 | 171.3 |
| 60,0° | 146.3 | 147.5 | 148.0 | 148.5 | 149.8 | 149.5 | 150.8 | 151.6 | 153.3 | 153.3 | 154.9 | 156.1 | 157.7 | 156.6 |
| 62,5° | 131.7 | 132.9 | 133.4 | 133.6 | 135.5 | 135.2 | 136.7 | 137.5 | 139.2 | 139.3 | 141.0 | 142.0 | 143.4 | 142.8 |
| 65,0° | 116.9 | 117.2 | 118.6 | 118.0 | 120.8 | 120.2 | 122.4 | 122.6 | 125.1 | 124.7 | 126.7 | 127.0 | 129.0 | 127.9 |
| 67,5° | 101.3 | 102.1 | 103.0 | 102.7 | 105.1 | 105.5 | 107.0 | 107.8 | 110.1 | 110.3 | 111.8 | 112.6 | 113.9 | 113.5 |
| 70,0° | 85.9 | 86.2 | 87.6 | 86.9 | 89.4 | 90.0 | 92.0 | 92.0 | 94.8 | 94.9 | 96.9 | 97.1 | 98.8 | 98.2 |
| 72,5° | 70.0 | 70.9 | 71.6 | 71.7 | 73.2 | 74.4 | 76.5 | 77.1 | 78.8 | 79.8 | 81.4 | 82.3 | 83.2 | 83.4 |
| 75,0° | 55.2 | 55.6 | 56.6 | 56.6 | 58.1 | 58.9 | 61.1 | 62.0 | 63.9 | 64.5 | 66.2 | 67.0 | 68.0 | 68.2 |
| 77,5° | 40.2 | 40.5 | 41.5 | 41.5 | 43.0 | 43.5 | 45.6 | 46.4 | 48.3 | 49.1 | 51.0 | 51.6 | 52.7 | 52.8 |
| 80,0° | 26.9 | 27.0 | 28.0 | 28.1 | 29.3 | 29.8 | 31.3 | 32.4 | 34.0 | 34.9 | 36.4 | 37.1 | 38.2 | 38.3 |
| 82,5° | 14.9 | 14.9 | 15.6 | 15.8 | 16.7 | 17.2 | 18.4 | 19.2 | 20.6 | 21.4 | 22.8 | 23.5 | 24.4 | 24.5 |
| 85,0° | 5.9 | 5.8 | 6.3 | 6.5 | 7.1 | 7.5 | 8.3 | 8.8 | 9.9 | 10.5 | 11.7 | 12.2 | 13.0 | 13.0 |
| 87,5° | 1.0 | 0.9 | 1.1 | 1.1 | 1.5 | 1.6 | 2.1 | 2.3 | 3.0 | 3.3 | 4.1 | 4.4 | 5.0 | 4.8 |

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| C- Ebenen | 105,0° | 112,5° | 120,0° | 127,5° | 135,0° | 142,5° | 150,0° | 157,5° | 165,0° | 172,5° | 180,0° | 187,5° | 195,0° | 202,5° |
|--------------|-----------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| γ | Lichtstärke in cd/klm | | | | | | | | | | | | | |
| 0,0° | 355.4 | 355.4 | 355.4 | 355.4 | 355.4 | 355.4 | 355.4 | 355.4 | 355.4 | 355.4 | 355.4 | 355.4 | 355.4 | 355.4 |
| 2,5° | 356.3 | 356.7 | 356.4 | 355.9 | 355.7 | 354.4 | 354.2 | 354.2 | 354.9 | 355.0 | 356.9 | 355.8 | 356.4 | 353.7 |
| 5,0° | 355.2 | 355.4 | 355.3 | 355.0 | 354.6 | 353.3 | 353.2 | 353.1 | 353.8 | 354.1 | 355.8 | 355.1 | 355.6 | 352.8 |
| 7,5° | 353.2 | 353.6 | 353.4 | 353.0 | 352.8 | 351.5 | 351.4 | 351.4 | 352.0 | 352.3 | 354.0 | 353.2 | 353.7 | 350.9 |
| 10,0° | 350.4 | 350.7 | 350.6 | 350.4 | 350.0 | 348.7 | 348.7 | 348.9 | 349.3 | 349.7 | 351.2 | 350.5 | 351.0 | 348.3 |
| 12,5° | 346.9 | 347.3 | 347.1 | 346.9 | 346.6 | 345.1 | 345.2 | 345.4 | 346.1 | 346.3 | 347.7 | 347.1 | 347.6 | 345.0 |
| 15,0° | 342.5 | 342.8 | 342.7 | 342.4 | 342.1 | 340.5 | 340.7 | 341.1 | 341.8 | 342.0 | 343.2 | 342.6 | 343.2 | 340.7 |
| 17,5° | 337.5 | 337.8 | 337.6 | 337.4 | 337.0 | 335.6 | 335.7 | 336.1 | 336.8 | 337.2 | 338.0 | 337.7 | 338.2 | 335.9 |
| 20,0° | 331.9 | 331.7 | 332.0 | 331.5 | 331.2 | 329.6 | 330.2 | 330.1 | 331.4 | 331.3 | 332.3 | 331.8 | 332.6 | 330.0 |
| 22,5° | 325.3 | 325.2 | 325.1 | 324.8 | 324.4 | 323.0 | 323.4 | 323.9 | 324.8 | 325.0 | 325.4 | 325.3 | 326.0 | 323.7 |
| 25,0° | 318.1 | 317.8 | 318.0 | 317.2 | 317.2 | 315.7 | 316.2 | 316.4 | 317.6 | 317.7 | 318.0 | 317.9 | 318.8 | 316.6 |
| 27,5° | 310.1 | 310.1 | 309.9 | 309.5 | 309.1 | 307.8 | 307.9 | 308.6 | 309.6 | 310.1 | 309.9 | 310.1 | 310.8 | 309.0 |
| 30,0° | 301.7 | 301.5 | 301.7 | 300.9 | 300.7 | 299.4 | 299.6 | 300.3 | 301.3 | 301.6 | 301.4 | 301.6 | 302.3 | 300.8 |
| 32,5° | 292.4 | 292.2 | 292.2 | 291.4 | 291.0 | 290.0 | 290.4 | 290.9 | 292.0 | 292.3 | 291.9 | 292.4 | 293.1 | 291.6 |
| 35,0° | 282.5 | 282.7 | 282.5 | 281.6 | 281.3 | 280.5 | 280.9 | 281.3 | 282.1 | 282.9 | 281.9 | 282.7 | 283.3 | 282.3 |
| 37,5° | 272.3 | 272.2 | 272.0 | 271.1 | 270.7 | 270.2 | 270.8 | 270.8 | 271.6 | 272.4 | 271.3 | 272.2 | 273.0 | 271.9 |
| 40,0° | 261.8 | 261.3 | 261.4 | 260.5 | 259.7 | 259.7 | 260.4 | 260.1 | 260.8 | 261.8 | 260.6 | 261.7 | 262.3 | 261.4 |
| 42,5° | 250.4 | 249.5 | 250.1 | 248.9 | 248.5 | 248.0 | 249.1 | 248.5 | 249.4 | 250.2 | 249.1 | 249.9 | 250.8 | 249.8 |
| 45,0° | 238.0 | 237.8 | 237.8 | 237.0 | 236.4 | 236.1 | 237.0 | 237.0 | 237.0 | 238.6 | 236.8 | 238.1 | 238.5 | 238.1 |
| 47,5° | 225.8 | 225.2 | 225.7 | 224.3 | 224.6 | 223.8 | 225.0 | 224.4 | 224.6 | 226.0 | 224.5 | 225.4 | 226.2 | 225.4 |
| 50,0° | 212.7 | 212.5 | 212.5 | 211.6 | 212.0 | 211.6 | 212.1 | 211.7 | 211.5 | 213.1 | 211.3 | 212.8 | 212.8 | 212.8 |
| 52,5° | 199.4 | 199.3 | 199.5 | 198.8 | 199.1 | 198.8 | 199.1 | 198.9 | 198.3 | 200.1 | 198.1 | 199.7 | 199.3 | 199.9 |
| 55,0° | 185.4 | 185.6 | 185.7 | 185.0 | 185.3 | 184.9 | 185.2 | 185.0 | 184.2 | 185.8 | 183.9 | 185.7 | 185.4 | 186.0 |
| 57,5° | 171.9 | 171.9 | 172.5 | 171.4 | 171.9 | 171.2 | 171.5 | 170.9 | 170.7 | 171.5 | 170.2 | 171.8 | 171.6 | 172.3 |
| 60,0° | 157.5 | 157.5 | 158.0 | 157.0 | 157.5 | 156.4 | 157.0 | 155.9 | 156.2 | 156.0 | 155.5 | 156.9 | 156.9 | 157.3 |
| 62,5° | 143.6 | 143.4 | 143.9 | 143.4 | 143.5 | 142.5 | 142.8 | 141.6 | 142.0 | 141.2 | 141.0 | 142.4 | 142.6 | 142.7 |
| 65,0° | 129.4 | 128.5 | 129.8 | 128.3 | 128.9 | 127.4 | 128.2 | 126.0 | 127.7 | 125.4 | 126.3 | 126.9 | 128.0 | 127.1 |
| 67,5° | 114.6 | 114.0 | 114.7 | 113.5 | 113.7 | 112.3 | 112.4 | 110.8 | 112.5 | 110.2 | 110.7 | 111.7 | 112.5 | 111.9 |
| 70,0° | 99.8 | 98.7 | 99.5 | 97.9 | 98.4 | 96.7 | 96.9 | 95.2 | 97.3 | 94.4 | 95.3 | 96.0 | 97.0 | 96.1 |
| 72,5° | 84.2 | 83.6 | 83.7 | 82.7 | 82.4 | 81.1 | 80.8 | 80.2 | 81.1 | 79.1 | 79.4 | 80.5 | 81.0 | 80.9 |
| 75,0° | 69.0 | 68.1 | 68.5 | 67.2 | 66.9 | 65.7 | 65.5 | 65.1 | 65.3 | 63.8 | 64.3 | 65.0 | 65.8 | 65.5 |
| 77,5° | 53.4 | 52.6 | 52.6 | 51.3 | 51.1 | 50.0 | 50.2 | 49.9 | 49.4 | 48.4 | 49.0 | 49.4 | 50.2 | 50.0 |
| 80,0° | 38.6 | 38.0 | 37.8 | 36.9 | 36.8 | 35.9 | 36.1 | 35.3 | 35.1 | 34.5 | 34.9 | 35.1 | 36.0 | 35.9 |
| 82,5° | 24.7 | 24.2 | 24.2 | 23.3 | 23.2 | 22.7 | 22.6 | 21.9 | 21.9 | 21.4 | 21.8 | 21.9 | 22.4 | 22.5 |
| 85,0° | 13.2 | 12.6 | 12.6 | 12.1 | 12.2 | 11.6 | 11.6 | 11.1 | 11.2 | 10.9 | 11.2 | 11.1 | 11.6 | 11.6 |
| 87,5° | 5.1 | 4.7 | 4.8 | 4.4 | 4.5 | 4.1 | 4.2 | 3.8 | 4.0 | 3.7 | 3.9 | 3.7 | 4.1 | 4.0 |

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| siteco | | |

| C- Ebenen | 210,0° | 217,5° | 225,0° | 232,5° | 240,0° | 247,5° | 255,0° | 262,5° | 270,0° | 277,5° | 285,0° | 292,5° | 300,0° | 307,5° |
|--------------|-----------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| γ | Lichtstärke in cd/klm | | | | | | | | | | | | | |
| 0,0° | 355.4 | 355.4 | 355.4 | 355.4 | 355.4 | 355.4 | 355.4 | 355.4 | 355.4 | 355.4 | 355.4 | 355.4 | 355.4 | 355.4 |
| 2,5° | 352.3 | 352.8 | 353.8 | 355.7 | 356.1 | 356.3 | 356.1 | 356.5 | 356.3 | 355.3 | 356.0 | 356.3 | 356.1 | 355.6 |
| 5,0° | 351.4 | 351.8 | 352.8 | 354.5 | 355.1 | 355.2 | 355.1 | 355.6 | 355.1 | 354.0 | 354.7 | 355.1 | 354.7 | 354.2 |
| 7,5° | 349.5 | 350.0 | 351.0 | 352.7 | 353.4 | 353.3 | 353.1 | 353.7 | 353.2 | 352.0 | 352.8 | 353.0 | 352.6 | 352.1 |
| 10,0° | 347.1 | 347.4 | 348.5 | 350.0 | 350.7 | 350.5 | 350.4 | 350.8 | 350.5 | 349.3 | 349.9 | 350.1 | 349.6 | 349.1 |
| 12,5° | 343.8 | 344.0 | 345.0 | 346.5 | 347.3 | 346.9 | 346.9 | 347.4 | 346.9 | 345.7 | 346.6 | 346.6 | 346.0 | 345.5 |
| 15,0° | 339.4 | 339.7 | 340.6 | 342.0 | 342.9 | 342.5 | 342.5 | 343.1 | 342.6 | 341.2 | 342.0 | 341.9 | 341.3 | 340.7 |
| 17,5° | 334.5 | 334.9 | 335.7 | 337.1 | 338.0 | 337.5 | 337.5 | 338.1 | 337.6 | 336.2 | 337.0 | 336.8 | 336.0 | 335.5 |
| 20,0° | 329.0 | 329.0 | 330.2 | 331.0 | 332.4 | 331.5 | 331.9 | 332.2 | 332.1 | 330.4 | 331.2 | 330.7 | 330.2 | 329.2 |
| 22,5° | 322.4 | 322.6 | 323.4 | 324.5 | 325.6 | 325.1 | 325.3 | 325.9 | 325.4 | 323.8 | 324.6 | 324.0 | 323.4 | 322.5 |
| 25,0° | 315.4 | 315.2 | 316.3 | 317.0 | 318.4 | 317.6 | 318.1 | 318.6 | 318.2 | 316.5 | 317.4 | 316.4 | 316.1 | 314.8 |
| 27,5° | 307.6 | 307.6 | 308.2 | 309.2 | 310.4 | 309.8 | 310.0 | 310.7 | 310.1 | 308.6 | 309.2 | 308.5 | 307.7 | 306.6 |
| 30,0° | 299.5 | 299.2 | 300.1 | 300.7 | 301.9 | 301.3 | 301.6 | 302.2 | 301.9 | 300.2 | 300.9 | 299.9 | 299.6 | 297.9 |
| 32,5° | 290.2 | 289.8 | 290.7 | 291.3 | 292.4 | 291.8 | 292.2 | 292.9 | 292.5 | 291.0 | 291.3 | 290.5 | 289.8 | 288.3 |
| 35,0° | 280.7 | 280.3 | 281.4 | 281.8 | 282.5 | 282.3 | 282.5 | 283.2 | 282.8 | 281.5 | 281.5 | 281.0 | 279.9 | 278.4 |
| 37,5° | 270.6 | 269.8 | 271.0 | 271.4 | 272.1 | 271.7 | 272.1 | 272.6 | 272.5 | 270.9 | 271.2 | 270.3 | 269.2 | 267.6 |
| 40,0° | 260.2 | 259.2 | 260.5 | 260.7 | 261.4 | 261.1 | 261.4 | 262.0 | 262.0 | 260.4 | 260.5 | 259.4 | 258.4 | 256.7 |
| 42,5° | 249.0 | 247.7 | 249.3 | 249.1 | 249.8 | 249.3 | 250.1 | 250.6 | 251.0 | 248.8 | 249.3 | 247.3 | 247.0 | 244.8 |
| 45,0° | 237.0 | 236.2 | 237.1 | 237.7 | 237.8 | 237.7 | 237.8 | 239.1 | 239.1 | 237.3 | 236.8 | 235.6 | 234.8 | 232.9 |
| 47,5° | 225.4 | 223.9 | 225.2 | 225.1 | 225.8 | 225.0 | 225.7 | 226.3 | 226.9 | 224.5 | 224.5 | 222.9 | 222.4 | 220.1 |
| 50,0° | 212.8 | 211.6 | 212.3 | 212.4 | 212.9 | 212.2 | 212.6 | 213.6 | 213.9 | 211.7 | 211.3 | 210.0 | 209.3 | 207.3 |
| 52,5° | 199.9 | 198.6 | 199.2 | 199.7 | 200.0 | 199.1 | 199.7 | 200.5 | 200.9 | 198.6 | 198.0 | 197.0 | 196.1 | 194.3 |
| 55,0° | 186.1 | 185.0 | 185.5 | 185.9 | 186.4 | 185.4 | 185.7 | 186.5 | 186.8 | 184.5 | 183.9 | 183.0 | 182.1 | 180.4 |
| 57,5° | 172.5 | 171.8 | 172.2 | 172.2 | 172.9 | 171.9 | 172.4 | 172.7 | 173.2 | 170.9 | 170.5 | 169.3 | 168.7 | 166.8 |
| 60,0° | 158.1 | 157.2 | 157.9 | 157.7 | 158.4 | 157.5 | 158.2 | 158.2 | 158.6 | 156.4 | 155.9 | 154.8 | 154.2 | 152.2 |
| 62,5° | 144.0 | 143.0 | 143.9 | 143.7 | 144.4 | 143.7 | 144.3 | 144.2 | 144.3 | 142.3 | 142.1 | 140.8 | 140.0 | 138.4 |
| 65,0° | 129.5 | 128.1 | 129.6 | 129.0 | 130.5 | 128.9 | 130.0 | 129.1 | 129.9 | 127.5 | 127.8 | 125.7 | 125.8 | 123.2 |
| 67,5° | 113.9 | 113.6 | 114.3 | 114.2 | 115.4 | 114.6 | 115.2 | 114.6 | 114.7 | 113.0 | 113.0 | 111.2 | 110.7 | 108.4 |
| 70,0° | 98.1 | 98.1 | 99.2 | 98.6 | 100.2 | 99.2 | 100.2 | 99.3 | 99.6 | 97.8 | 98.1 | 95.7 | 95.5 | 92.7 |
| 72,5° | 81.9 | 82.6 | 83.8 | 83.6 | 84.2 | 84.2 | 84.6 | 84.4 | 83.9 | 82.9 | 82.5 | 80.6 | 79.5 | 77.4 |
| 75,0° | 66.5 | 66.9 | 68.4 | 68.5 | 69.2 | 68.9 | 69.5 | 69.1 | 68.8 | 67.7 | 67.3 | 65.3 | 64.5 | 62.0 |
| 77,5° | 51.0 | 51.0 | 52.5 | 52.6 | 53.6 | 53.3 | 54.1 | 53.5 | 53.4 | 52.3 | 51.7 | 49.7 | 48.6 | 46.3 |
| 80,0° | 36.7 | 36.8 | 37.7 | 38.1 | 38.9 | 38.8 | 39.4 | 39.0 | 38.9 | 37.8 | 37.1 | 35.2 | 34.0 | 32.2 |
| 82,5° | 23.1 | 23.2 | 23.9 | 24.1 | 25.0 | 24.9 | 25.3 | 25.0 | 24.9 | 24.1 | 23.3 | 21.8 | 20.8 | 19.3 |
| 85,0° | 12.1 | 12.1 | 12.7 | 12.7 | 13.2 | 13.2 | 13.7 | 13.5 | 13.5 | 12.6 | 12.0 | 10.7 | 10.0 | 9.0 |
| 87,5° | 4.4 | 4.3 | 4.8 | 4.7 | 5.2 | 4.9 | 5.4 | 5.2 | 5.3 | 4.6 | 4.3 | 3.5 | 3.2 | 2.5 |

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| Wertetabelle Lichtstärkemessung | | Maximale Lichtstärke |
| | | siteco |

| C- Ebenen | 315,0° | 322,5° | 330,0° | 337,5° | 345,0° | 352,5° | Phi-Zone | Summe Phi-Zone |
|--------------|-----------------------|--------|--------|--------|--------|--------|----------------------|-------------------|
| γ | Lichtstärke in cd/klm | | | | | | Lichtstrom in lm/klm | |
| 0,0° | 355.4 | 355.4 | 355.4 | 355.4 | 355.4 | 355.4 | 0.5 | 0.5 |
| 2,5° | 355.3 | 353.9 | 353.8 | 353.7 | 354.3 | 354.5 | 4.2 | 4.8 |
| 5,0° | 353.9 | 352.3 | 352.1 | 352.3 | 352.8 | 353.2 | 8.5 | 13.2 |
| 7,5° | 351.7 | 350.2 | 350.0 | 350.1 | 350.6 | 350.8 | 12.6 | 25.8 |
| 10,0° | 348.7 | 346.8 | 346.9 | 347.0 | 347.6 | 347.6 | 16.6 | 42.4 |
| 12,5° | 344.9 | 343.0 | 343.1 | 343.1 | 343.7 | 343.8 | 20.5 | 62.9 |
| 15,0° | 340.1 | 338.2 | 338.2 | 338.4 | 338.9 | 338.9 | 24.2 | 87.1 |
| 17,5° | 334.7 | 332.9 | 332.7 | 332.9 | 333.6 | 333.7 | 27.7 | 114.8 |
| 20,0° | 328.7 | 326.6 | 326.8 | 326.7 | 327.6 | 327.4 | 30.9 | 145.7 |
| 22,5° | 321.5 | 319.8 | 319.8 | 319.9 | 320.6 | 320.6 | 33.9 | 179.6 |
| 25,0° | 314.1 | 312.1 | 312.1 | 312.1 | 313.1 | 312.9 | 36.6 | 216.2 |
| 27,5° | 305.7 | 303.8 | 303.7 | 304.1 | 304.7 | 304.8 | 38.9 | 255.2 |
| 30,0° | 297.0 | 295.1 | 295.1 | 295.3 | 296.1 | 296.1 | 41.0 | 296.2 |
| 32,5° | 287.3 | 285.6 | 285.5 | 285.6 | 286.4 | 286.5 | 42.7 | 338.9 |
| 35,0° | 277.2 | 275.8 | 275.7 | 275.7 | 276.3 | 276.7 | 44.0 | 382.9 |
| 37,5° | 266.4 | 265.3 | 265.3 | 264.9 | 265.5 | 265.7 | 45.0 | 427.8 |
| 40,0° | 255.3 | 254.5 | 254.6 | 254.1 | 254.3 | 254.9 | 45.6 | 473.4 |
| 42,5° | 243.9 | 242.7 | 243.3 | 242.0 | 242.6 | 242.9 | 45.8 | 519.2 |
| 45,0° | 231.6 | 230.8 | 230.8 | 230.1 | 230.0 | 231.1 | 45.6 | 564.8 |
| 47,5° | 219.6 | 218.0 | 218.6 | 217.3 | 217.3 | 218.1 | 45.0 | 609.8 |
| 50,0° | 206.8 | 205.5 | 205.4 | 204.3 | 203.7 | 205.1 | 44.1 | 653.8 |
| 52,5° | 193.7 | 192.6 | 192.2 | 191.3 | 190.2 | 191.5 | 42.8 | 696.6 |
| 55,0° | 179.8 | 178.5 | 178.1 | 177.3 | 176.0 | 177.1 | 41.0 | 737.6 |
| 57,5° | 166.2 | 164.6 | 164.3 | 163.0 | 162.1 | 162.6 | 39.1 | 776.7 |
| 60,0° | 151.6 | 149.8 | 149.4 | 147.8 | 147.5 | 147.0 | 36.6 | 813.3 |
| 62,5° | 137.4 | 135.7 | 135.0 | 133.2 | 133.1 | 132.0 | 34.1 | 847.4 |
| 65,0° | 122.7 | 120.4 | 120.4 | 117.5 | 118.6 | 116.0 | 31.1 | 878.5 |
| 67,5° | 107.5 | 105.3 | 104.6 | 102.2 | 103.3 | 100.8 | 27.9 | 906.5 |
| 70,0° | 92.1 | 89.6 | 89.0 | 86.5 | 88.0 | 85.0 | 24.4 | 930.9 |
| 72,5° | 76.1 | 74.0 | 72.9 | 71.6 | 72.1 | 69.9 | 20.7 | 951.6 |
| 75,0° | 60.8 | 58.7 | 57.7 | 56.7 | 56.5 | 54.8 | 17.0 | 968.6 |
| 77,5° | 45.2 | 43.4 | 42.8 | 41.9 | 41.1 | 39.9 | 13.0 | 981.6 |
| 80,0° | 31.2 | 29.8 | 29.3 | 28.2 | 27.6 | 26.7 | 9.3 | 990.9 |
| 82,5° | 18.4 | 17.3 | 16.8 | 15.7 | 15.4 | 14.8 | 5.8 | 996.7 |
| 85,0° | 8.5 | 7.5 | 7.1 | 6.5 | 6.3 | 5.8 | 2.9 | 999.5 |
| 87,5° | 2.2 | 1.7 | 1.5 | 1.1 | 1.1 | 0.9 | 0.9 | 1000.5 |

Lichttechnischer Prüfbefund

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|------------------------------|---|-------------------------------|
| Familie Silica® 21 | Bestell-Nr.: 51MX20DA42SB EAN: 4058352898581 | LP-Nummer 59411_227 |
|------------------------------|---|-------------------------------|

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

| Leuchtdichten-Tabelle | | Lichttechnische Abmessungen in mm: L = 1200 B = 50 | | | | | | | | | | | |
|-----------------------|-------------------|--|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| C-Ebenen | | Leuchtdichte in cd/m² | | | | | | | | | | | |
| γ | | 0,0° | 30,0° | 60,0° | 90,0° | 120,0° | 150,0° | 180,0° | 210,0° | 240,0° | 270,0° | 300,0° | 330,0° |
| 45,0° | Max. für γ >= 65° | 12970.0 | 13026.0 | 13199.8 | 13473.7 | 13450.1 | 13408.9 | 13394.1 | 13408.9 | 13450.1 | 13523.7 | 13282.2 | 13058.4 |
| 50,0° | | 12648.0 | 12777.6 | 12959.0 | 13257.1 | 13224.6 | 13198.8 | 13150.2 | 13244.1 | 13250.6 | 13312.1 | 13023.8 | 12784.1 |
| 55,0° | | 12228.1 | 12420.6 | 12649.3 | 12965.2 | 12947.0 | 12918.0 | 12827.2 | 12976.1 | 12997.8 | 13026.9 | 12700.1 | 12416.9 |
| 60,0° | | 11707.7 | 11982.6 | 12261.6 | 12619.8 | 12640.6 | 12557.3 | 12436.6 | 12644.8 | 12673.9 | 12690.6 | 12336.6 | 11949.2 |
| 65,0° | | 11067.3 | 11436.9 | 11840.9 | 12210.5 | 12284.4 | 12136.5 | 11954.2 | 12254.8 | 12353.4 | 12294.2 | 11909.8 | 11397.4 |
| 70,0° | | 10040.3 | 10454.4 | 11087.7 | 11556.4 | 11641.7 | 11337.2 | 11148.5 | 11477.3 | 11720.8 | 11653.8 | 11166.7 | 10411.8 |
| 75,0° | | 8536.9 | 8979.4 | 9872.5 | 10508.2 | 10580.5 | 10130.0 | 9944.9 | 10282.9 | 10701.2 | 10636.9 | 9961.1 | 8923.1 |
| 80,0° | | 6200.1 | 6739.8 | 7831.0 | 8802.4 | 8718.5 | 8322.8 | 8046.8 | 8442.8 | 8970.3 | 8958.3 | 7843.0 | 6751.8 |
| 85,0° | | 2723.9 | 3273.2 | 4539.9 | 5949.3 | 5782.3 | 5328.4 | 5137.0 | 5543.2 | 6069.1 | 6188.5 | 4611.5 | 3273.2 |

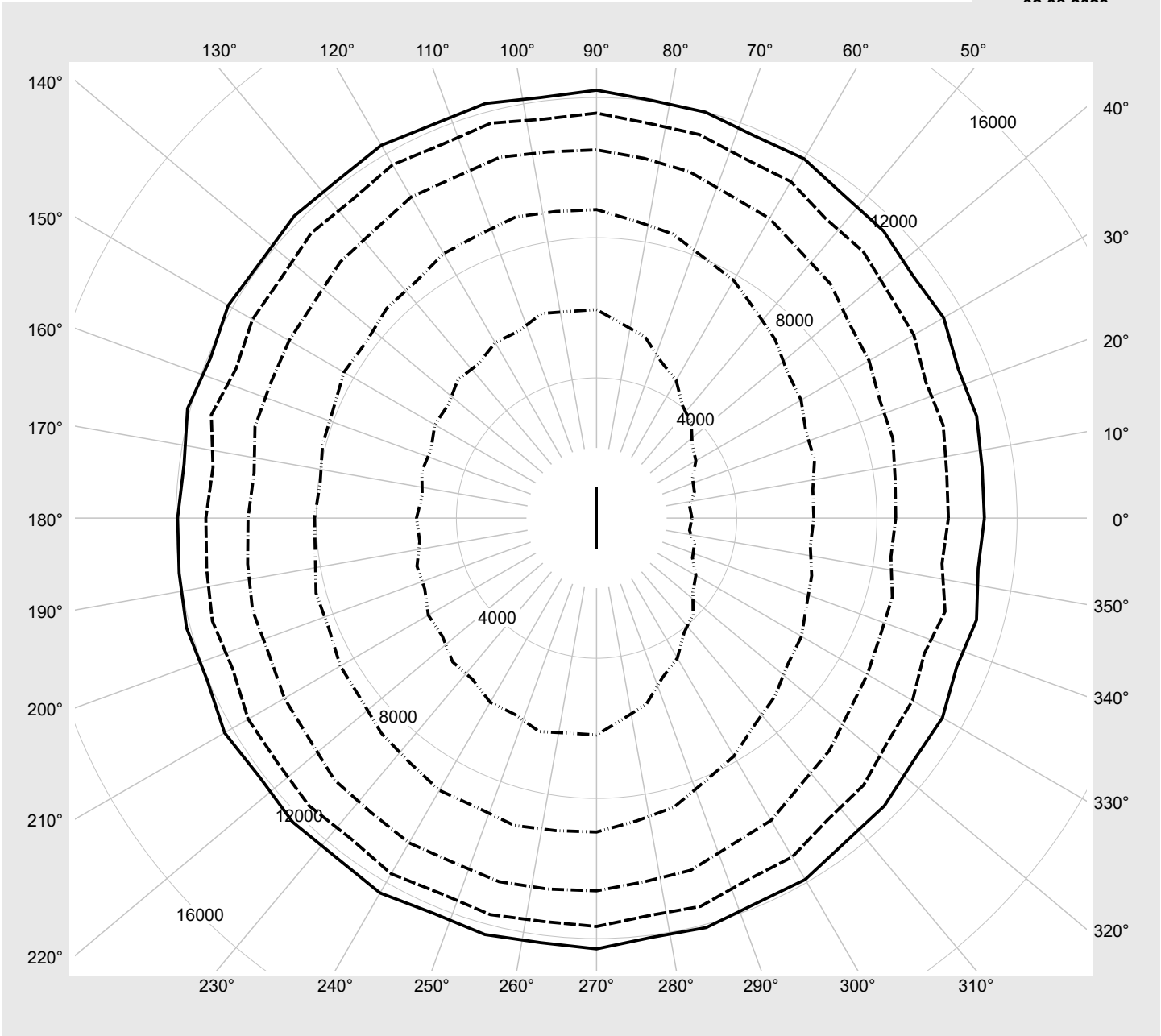
Lichttechnischer Prüfbefund

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Leuchtdichten in cd/m²

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

Seriendokumentation
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Lichttechnischer Prüfbefund

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

| Lichtstrom [%] | Dimmstufe linear | Dimmstufe logarithmisch | Lichtstrom [lm] | Systemleistung [W] |
|----------------|------------------|-------------------------|-----------------|--------------------|
| 100 | 254 | 254 | 2400 | 15.2 |
| 95 | 241 | 252 | 2280 | 14.4 |
| 90 | 228 | 250 | 2160 | 13.7 |
| 85 | 215 | 248 | 2040 | 12.9 |
| 80 | 202 | 246 | 1919 | 12.1 |
| 75 | 189 | 243 | 1798 | 11.4 |
| 70 | 176 | 241 | 1676 | 10.6 |
| 65 | 164 | 238 | 1564 | 10.0 |
| 60 | 151 | 235 | 1442 | 9.2 |
| 55 | 138 | 232 | 1319 | 8.5 |
| 50 | 125 | 228 | 1195 | 7.8 |
| 45 | 113 | 224 | 1082 | 7.1 |
| 40 | 100 | 220 | 958 | 6.4 |
| 35 | 88 | 215 | 843 | 5.8 |
| 30 | 75 | 209 | 718 | 5.0 |
| 25 | 63 | 203 | 602 | 4.4 |
| 20 | 50 | 194 | 477 | 3.6 |
| 15 | 38 | 184 | 360 | 3.0 |
| 10 | 26 | 171 | 244 | 2.2 |
| 5 | 14 | 148 | 128 | 1.3 |