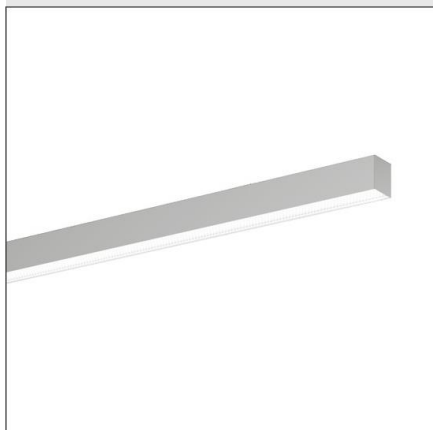


## Lichttechnischer Prüfbefund

**Familie**  
**Silica® 21**

**Bestell-Nr.: 51MX20DB32SB**  
**EAN: 4058352898642**

**LP-Nummer**  
**60289\_15**



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

**Bestückung** LED 3000 K | CRI ≥ 80

**Betriebsgerät** EVG-DALI

**Bemessungswerte** Nettolichtstrom = 3000 lm  
Systemleistung = 20.2 W  
Lichtausbeute = 148.5 lm/W

**Seriendokumentation**  
**23.06.2026**

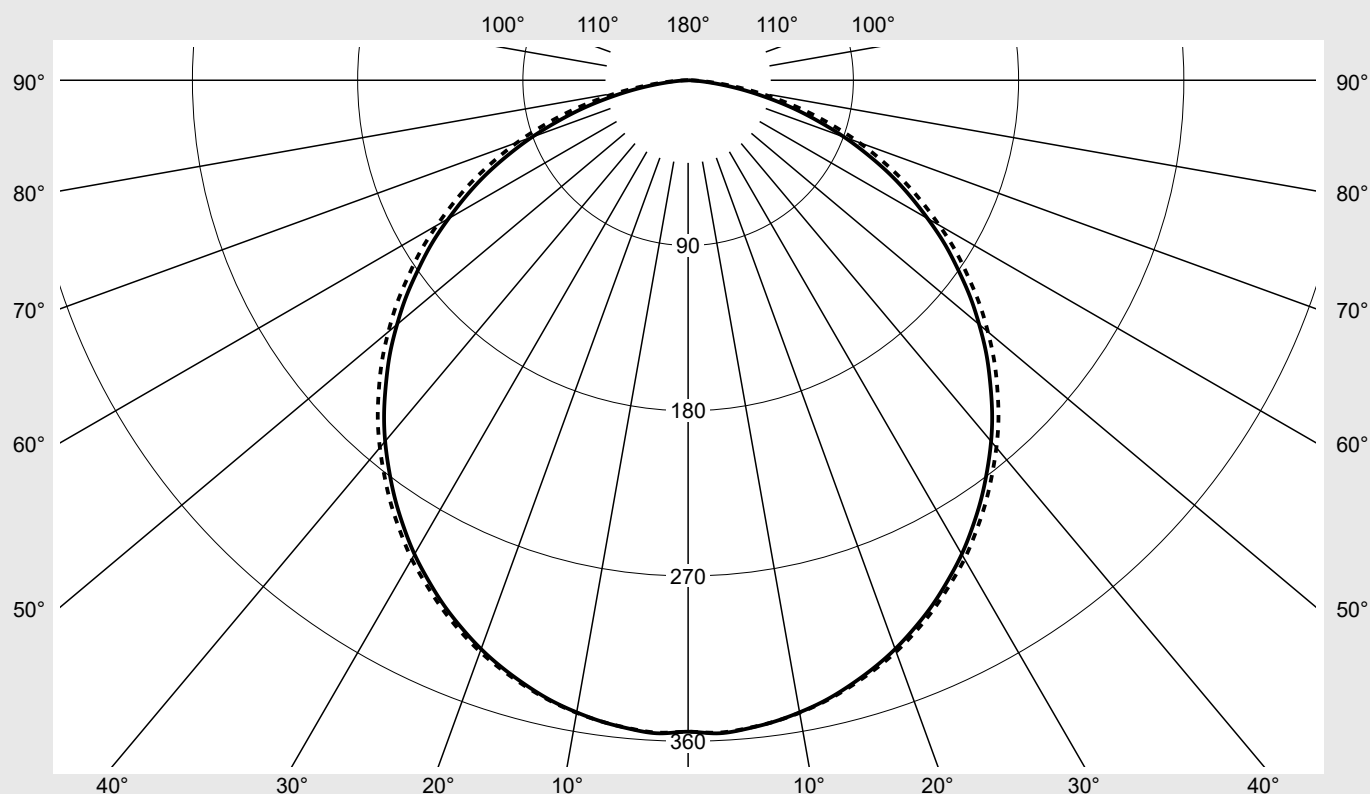
**siteco**

**Lichtstärke in cd/klm**

**C180-0**

**C270-90**

**Imax: 356 cd/klm**



### Klassifizierungen

DIN 5040 A 4 0  
CIE N1=48 N2=79 N3=96  
N4=100 N5=100

### Leuchtenbetriebswirkungsgrade

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

### Messbedingungen

DIN EN 13032 und DIN 5032

Lichttechnischer Prüfbefund

|                                 |                                                 |                       |
|---------------------------------|-------------------------------------------------|-----------------------|
| Familie<br>Silica® 21           | Bestell-Nr.: 51MX20DB32SB<br>EAN: 4058352898642 | LP-Nummer<br>60289_15 |
| Wertetabelle Lichtstärkemessung |                                                 | Maximale Lichtstärke  |

siteco

| C-<br>Ebenen | 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° | Phi-Zone             | Summe<br>Phi-Zone |
|--------------|-----------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-------------|----------------------|-------------------|
| γ            | Lichtstärke in cd/klm |                             |                             |                             |                             |                             |             | Lichtstrom in lm/klm |                   |
| 0,0°         | 354.8                 | 354.8                       | 354.8                       | 354.8                       | 354.8                       | 354.8                       | 354.8       | 0.5                  | 0.5               |
| 2,5°         | 356.1                 | 354.8                       | 352.5                       | 354.0                       | 355.5                       | 355.5                       | 355.7       | 4.2                  | 4.8               |
| 5,0°         | 354.8                 | 353.6                       | 351.3                       | 352.8                       | 354.4                       | 354.3                       | 354.5       | 8.4                  | 13.2              |
| 7,5°         | 352.6                 | 351.6                       | 349.3                       | 350.8                       | 352.4                       | 352.4                       | 352.6       | 12.6                 | 25.8              |
| 10,0°        | 349.6                 | 348.7                       | 346.4                       | 347.9                       | 349.6                       | 349.5                       | 349.8       | 16.6                 | 42.4              |
| 12,5°        | 345.9                 | 345.1                       | 342.8                       | 344.3                       | 346.0                       | 346.1                       | 346.3       | 20.5                 | 62.9              |
| 15,0°        | 341.1                 | 340.5                       | 338.2                       | 339.7                       | 341.5                       | 341.5                       | 341.8       | 24.2                 | 87.0              |
| 17,5°        | 335.7                 | 335.3                       | 333.0                       | 334.5                       | 336.3                       | 336.5                       | 336.8       | 27.6                 | 114.7             |
| 20,0°        | 329.7                 | 329.5                       | 327.3                       | 328.8                       | 330.6                       | 330.8                       | 331.2       | 30.9                 | 145.6             |
| 22,5°        | 322.7                 | 322.7                       | 320.5                       | 321.8                       | 323.8                       | 324.1                       | 324.6       | 33.9                 | 179.4             |
| 25,0°        | 315.2                 | 315.4                       | 313.2                       | 314.5                       | 316.5                       | 316.9                       | 317.4       | 36.5                 | 216.0             |
| 27,5°        | 306.8                 | 307.2                       | 305.0                       | 306.3                       | 308.3                       | 308.8                       | 309.3       | 38.9                 | 254.9             |
| 30,0°        | 298.1                 | 298.7                       | 296.7                       | 297.9                       | 300.0                       | 300.4                       | 301.1       | 41.0                 | 295.8             |
| 32,5°        | 288.4                 | 289.2                       | 287.3                       | 288.3                       | 290.3                       | 291.0                       | 291.7       | 42.6                 | 338.5             |
| 35,0°        | 278.3                 | 279.3                       | 277.6                       | 278.6                       | 280.5                       | 281.2                       | 282.0       | 44.0                 | 382.4             |
| 37,5°        | 267.6                 | 268.7                       | 267.4                       | 268.1                       | 269.9                       | 270.9                       | 271.7       | 44.9                 | 427.3             |
| 40,0°        | 256.7                 | 257.8                       | 256.8                       | 257.2                       | 259.2                       | 260.2                       | 261.2       | 45.5                 | 472.8             |
| 42,5°        | 245.1                 | 246.2                       | 245.5                       | 245.9                       | 247.7                       | 248.9                       | 250.2       | 45.7                 | 518.6             |
| 45,0°        | 232.6                 | 233.7                       | 233.4                       | 233.7                       | 235.5                       | 236.5                       | 238.2       | 45.5                 | 564.1             |
| 47,5°        | 220.2                 | 221.3                       | 221.5                       | 221.8                       | 223.4                       | 224.3                       | 226.1       | 45.0                 | 609.1             |
| 50,0°        | 206.9                 | 207.8                       | 208.6                       | 208.9                       | 210.4                       | 211.2                       | 213.1       | 44.0                 | 653.1             |
| 52,5°        | 193.6                 | 194.4                       | 195.5                       | 195.9                       | 197.4                       | 198.1                       | 200.0       | 42.7                 | 695.8             |
| 55,0°        | 179.3                 | 180.3                       | 181.6                       | 182.1                       | 183.6                       | 184.1                       | 186.0       | 41.0                 | 736.7             |
| 57,5°        | 165.5                 | 166.5                       | 167.9                       | 168.6                       | 170.2                       | 170.7                       | 172.6       | 39.0                 | 775.8             |
| 60,0°        | 150.7                 | 151.9                       | 153.3                       | 154.2                       | 155.7                       | 156.4                       | 157.9       | 36.6                 | 812.4             |
| 62,5°        | 136.1                 | 137.6                       | 139.1                       | 140.1                       | 141.6                       | 142.5                       | 143.6       | 34.1                 | 846.5             |
| 65,0°        | 121.4                 | 123.0                       | 124.5                       | 125.7                       | 127.6                       | 128.3                       | 129.2       | 31.2                 | 877.7             |
| 67,5°        | 105.8                 | 107.6                       | 108.8                       | 110.4                       | 112.5                       | 113.4                       | 114.1       | 28.0                 | 905.7             |
| 70,0°        | 90.4                  | 92.3                        | 93.2                        | 95.3                        | 97.3                        | 98.6                        | 99.1        | 24.5                 | 930.2             |
| 72,5°        | 74.6                  | 76.3                        | 77.1                        | 79.6                        | 81.4                        | 83.0                        | 83.4        | 20.8                 | 951.0             |
| 75,0°        | 59.7                  | 61.0                        | 61.9                        | 64.2                        | 66.4                        | 67.9                        | 68.3        | 17.0                 | 968.0             |
| 77,5°        | 44.5                  | 45.5                        | 46.7                        | 48.5                        | 50.7                        | 52.4                        | 53.0        | 13.0                 | 981.0             |
| 80,0°        | 30.9                  | 31.6                        | 32.8                        | 34.2                        | 36.1                        | 37.8                        | 38.5        | 9.3                  | 990.3             |
| 82,5°        | 18.3                  | 18.8                        | 19.8                        | 20.9                        | 22.6                        | 24.0                        | 24.6        | 5.8                  | 996.1             |
| 85,0°        | 8.6                   | 8.8                         | 9.5                         | 10.4                        | 11.4                        | 12.6                        | 13.2        | 2.9                  | 999.0             |
| 87,5°        | 2.4                   | 2.6                         | 2.9                         | 3.4                         | 4.1                         | 4.7                         | 5.1         | 1.0                  | 1000.0            |
| 90,0°        | 0.0                   | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0         | 0.0                  | 1000.0            |

Lichttechnischer Prüfbefund

|                       |     |                                     |                                                 |      |      |      |                                       |      |      |                       |      |
|-----------------------|-----|-------------------------------------|-------------------------------------------------|------|------|------|---------------------------------------|------|------|-----------------------|------|
| Familie<br>Silica® 21 |     |                                     | Bestell-Nr.: 51MX20DB32SB<br>EAN: 4058352898642 |      |      |      |                                       |      |      | LP-Nummer<br>60289_15 |      |
| UGR-Tabelle           |     |                                     | Standardraum                                    |      |      |      |                                       |      |      | siteco                |      |
| Reflexionsgrad Decke  |     | 0,7                                 | 0,7                                             | 0,5  | 0,5  | 0,3  | 0,7                                   | 0,7  | 0,5  | 0,5                   | 0,3  |
| Reflexionsgrad Wände  |     | 0,5                                 | 0,3                                             | 0,5  | 0,3  | 0,3  | 0,5                                   | 0,3  | 0,5  | 0,3                   | 0,3  |
| Reflexionsgrad Boden  |     | 0,2                                 | 0,2                                             | 0,2  | 0,2  | 0,2  | 0,2                                   | 0,2  | 0,2  | 0,2                   | 0,2  |
| Raumabmessungen       |     | Blickrichtung quer zur Leuchte (C0) |                                                 |      |      |      | Blickrichtung längs zur Leuchte (C90) |      |      |                       |      |
| x                     | y   |                                     |                                                 |      |      |      |                                       |      |      |                       |      |
| 2H                    | 2H  | 21,2                                | 22,8                                            | 21,5 | 23,2 | 23,5 | 21,3                                  | 23,0 | 21,7 | 23,3                  | 23,6 |
|                       | 3H  | 22,7                                | 24,2                                            | 23,1 | 24,6 | 24,9 | 23,0                                  | 24,5 | 23,4 | 24,8                  | 25,2 |
|                       | 4H  | 23,3                                | 24,7                                            | 23,7 | 25,0 | 25,4 | 23,6                                  | 25,1 | 24,0 | 25,4                  | 25,8 |
|                       | 6H  | 23,6                                | 24,9                                            | 24,0 | 25,3 | 25,7 | 24,1                                  | 25,4 | 24,5 | 25,8                  | 26,2 |
|                       | 8H  | 23,7                                | 25,0                                            | 24,1 | 25,3 | 25,7 | 24,2                                  | 25,5 | 24,7 | 25,9                  | 26,3 |
|                       | 12H | 23,7                                | 24,9                                            | 24,2 | 25,3 | 25,7 | 24,3                                  | 25,5 | 24,7 | 25,9                  | 26,3 |
| 4H                    | 2H  | 21,9                                | 23,4                                            | 22,3 | 23,7 | 24,1 | 22,1                                  | 23,5 | 22,5 | 23,9                  | 24,2 |
|                       | 3H  | 23,7                                | 24,9                                            | 24,1 | 25,3 | 25,7 | 23,9                                  | 25,1 | 24,3 | 25,5                  | 25,9 |
|                       | 4H  | 24,3                                | 25,4                                            | 24,8 | 25,8 | 26,3 | 24,7                                  | 25,8 | 25,1 | 26,2                  | 26,6 |
|                       | 6H  | 24,8                                | 25,7                                            | 25,2 | 26,1 | 26,6 | 25,2                                  | 26,2 | 25,7 | 26,6                  | 27,1 |
|                       | 8H  | 24,9                                | 25,7                                            | 25,3 | 26,2 | 26,7 | 25,4                                  | 26,3 | 25,9 | 26,7                  | 27,2 |
|                       | 12H | 24,9                                | 25,7                                            | 25,4 | 26,2 | 26,7 | 25,5                                  | 26,3 | 26,0 | 26,7                  | 27,2 |
| 8H                    | 4H  | 24,7                                | 25,5                                            | 25,1 | 26,0 | 26,4 | 25,0                                  | 25,8 | 25,4 | 26,3                  | 26,7 |
|                       | 6H  | 25,2                                | 25,9                                            | 25,7 | 26,4 | 26,9 | 25,6                                  | 26,3 | 26,1 | 26,8                  | 27,3 |
|                       | 8H  | 25,3                                | 26,0                                            | 25,8 | 26,4 | 27,0 | 25,8                                  | 26,5 | 26,3 | 26,9                  | 27,5 |
|                       | 12H | 25,4                                | 25,9                                            | 25,9 | 26,4 | 27,0 | 26,0                                  | 26,5 | 26,5 | 27,0                  | 27,5 |
| 12H                   | 4H  | 24,7                                | 25,5                                            | 25,2 | 25,9 | 26,4 | 25,0                                  | 25,8 | 25,5 | 26,2                  | 26,7 |
|                       | 6H  | 25,3                                | 25,9                                            | 25,8 | 26,4 | 26,9 | 25,7                                  | 26,3 | 26,2 | 26,8                  | 27,3 |
|                       | 8H  | 25,4                                | 26,0                                            | 25,9 | 26,4 | 27,0 | 25,9                                  | 26,4 | 26,4 | 26,9                  | 27,5 |

| Leuchtdichten-Tabelle |                       | Max. für $\gamma \geq 65^\circ$ |                             | Lichttechnische Abmessungen in mm: |                             | L = 1500<br>B = 50          |             |
|-----------------------|-----------------------|---------------------------------|-----------------------------|------------------------------------|-----------------------------|-----------------------------|-------------|
| C-<br>Ebenen          | 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° |
| $\gamma$              | Leuchtdichte in cd/m² |                                 |                             |                                    |                             |                             |             |
| 45,0°                 | 13160.1               | 13222.6                         | 13203.5                     | 13219.7                            | 13323.3                     | 13379.9                     | 13476.2     |
| 50,0°                 | 12877.6               | 12934.2                         | 12979.5                     | 13000.5                            | 13092.7                     | 13144.4                     | 13262.5     |
| 55,0°                 | 12506.8               | 12573.9                         | 12661.7                     | 12698.0                            | 12802.2                     | 12841.2                     | 12974.4     |
| 60,0°                 | 12052.0               | 12151.8                         | 12263.0                     | 12334.7                            | 12457.4                     | 12509.4                     | 12634.1     |
| 65,0°                 | 11491.6               | 11642.8                         | 11786.7                     | 11895.0                            | 12077.0                     | 12141.0                     | 12231.9     |
| 70,0°                 | 10576.8               | 10798.7                         | 10901.9                     | 11143.6                            | 11385.2                     | 11526.6                     | 11585.8     |
| 75,0°                 | 9225.4                | 9420.3                          | 9562.8                      | 9920.3                             | 10261.7                     | 10492.7                     | 10555.0     |
| 80,0°                 | 7111.6                | 7282.3                          | 7551.8                      | 7875.0                             | 8326.7                      | 8713.0                      | 8865.5      |
| 85,0°                 | 3924.0                | 4055.3                          | 4347.2                      | 4770.8                             | 5242.1                      | 5790.6                      | 6058.6      |

Lichttechnischer Prüfbefund

**Familie**  
**Silica® 21**

**Bestell-Nr.: 51MX20DB32SB**  
**EAN: 4058352898642**

**LP-Nummer**  
**60289\_15**

**Leuchtdichten in cd/m²**

γ 65°

γ 70°

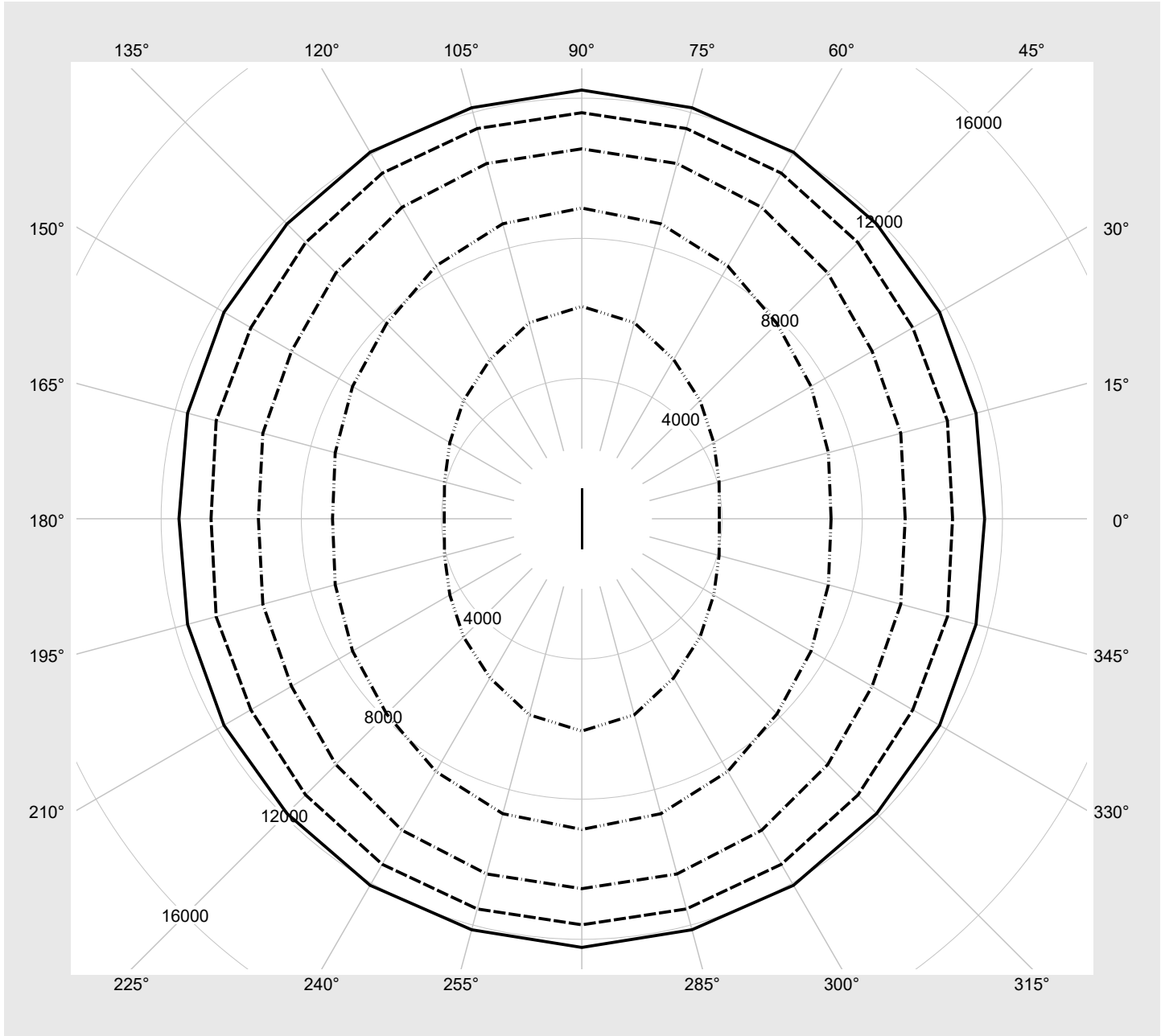
γ 75°

γ 80°

γ 85°

sit

eco



Lichttechnischer Prüfbefund

|                                                        |                                                               |                                     |
|--------------------------------------------------------|---------------------------------------------------------------|-------------------------------------|
| <b>Familie</b><br><b>Silica® 21</b>                    | <b>Bestell-Nr.: 51MX20DB32SB</b><br><b>EAN: 4058352898642</b> | <b>LP-Nummer</b><br><b>60289_15</b> |
| <b>Dimmstufen-Tabelle</b><br>Umgebungstemperatur: 25°C |                                                               | <b>sit</b> eco                      |

| Lichtstrom [%] | Dimmstufe linear | Dimmstufe logarithmisch | Lichtstrom [lm] | Systemleistung [W] |
|----------------|------------------|-------------------------|-----------------|--------------------|
| 100            | 254              | 254                     | 3000            | 20.2               |
| 95             | 241              | 252                     | 2851            | 19.2               |
| 90             | 228              | 250                     | 2701            | 18.2               |
| 85             | 215              | 248                     | 2551            | 17.1               |
| 80             | 202              | 246                     | 2401            | 16.1               |
| 75             | 189              | 243                     | 2250            | 15.1               |
| 70             | 176              | 241                     | 2098            | 14.1               |
| 65             | 163              | 238                     | 1946            | 13.1               |
| 60             | 151              | 235                     | 1805            | 12.2               |
| 55             | 138              | 232                     | 1651            | 11.2               |
| 50             | 125              | 228                     | 1497            | 10.2               |
| 45             | 113              | 224                     | 1355            | 9.4                |
| 40             | 100              | 220                     | 1200            | 8.5                |
| 35             | 87               | 215                     | 1044            | 7.5                |
| 30             | 75               | 209                     | 901             | 6.6                |
| 25             | 63               | 203                     | 755             | 5.7                |
| 20             | 50               | 194                     | 598             | 4.8                |
| 15             | 38               | 184                     | 453             | 3.9                |
| 10             | 25               | 169                     | 295             | 2.9                |
| 5              | 13               | 145                     | 148             | 1.6                |