

## Lichttechnischer Prüfbefund

**Familie**  
**Silica® 21 round M**

**Bestell-Nr.: 51MF23DB3MBA**  
**EAN: 4069025806703**

**LP-Nummer**  
**60072\_28**

**Seriendokumentation**  
**20.05.2026**



**Ausführung** Anbauleuchte, Gehäuse, schwarz,  
Mikroprismenoptik, direkt breit strahlend mit  
Deckenaufhellung, UGR≤19

**Bestückung** LED 3000 K | CRI ≥ 80

**Betriebsgerät** EVG-DALI

**Bemessungswerte** Nettolichtstrom = 5720 lm  
Systemleistung = 35.8 W  
Lichtausbeute = 159.8 lm/W

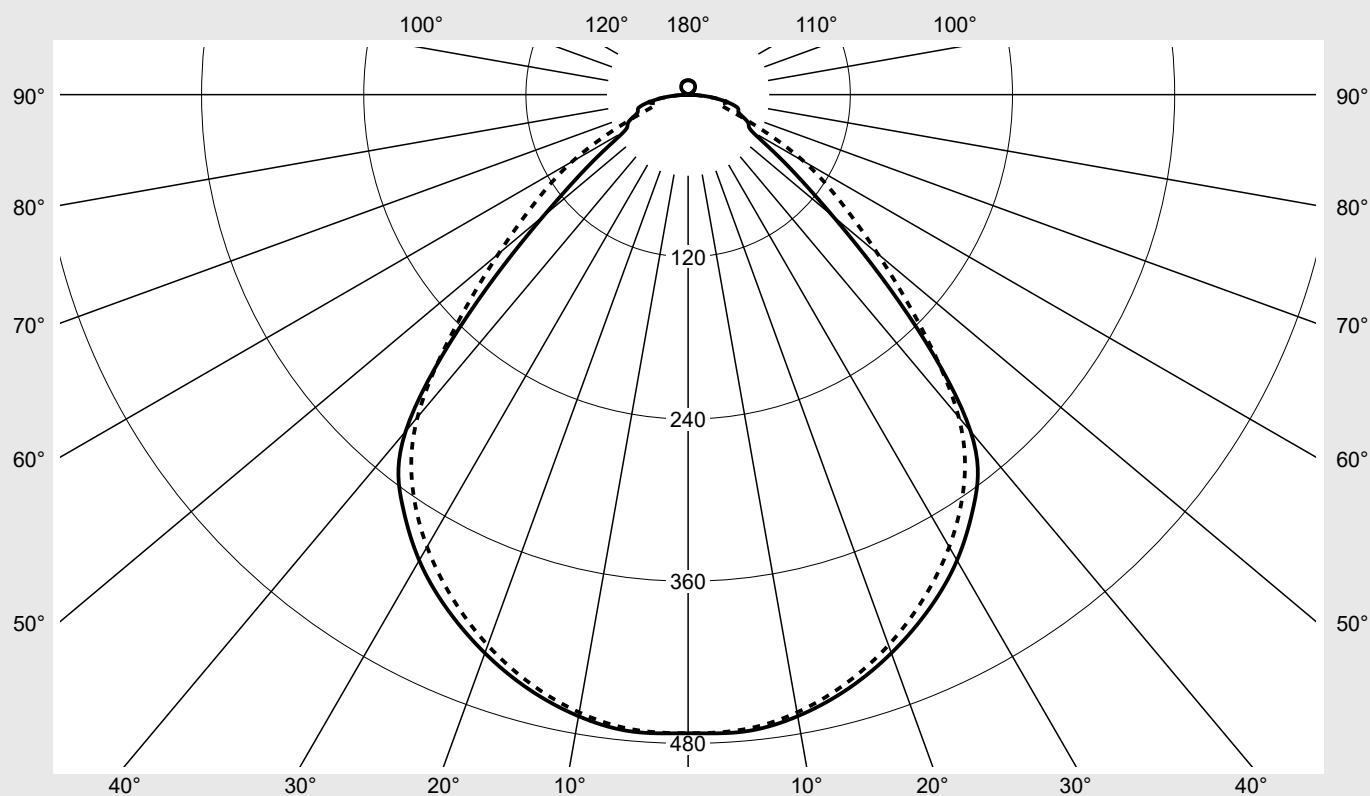
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**Lichtstärke in cd/klm**

**C180-0**

**C270-90**

**Imax: 473 cd/klm**



### Klassifizierungen

DIN 5040 A 5 3  
CIE N1=64 N2=89 N3=97  
N4=97 N5=100

### Leuchtenbetriebswirkungsgrade

$\eta_{LB}$  100,0%  
 $\phi_u$  97,2%  
 $\phi_o$  2,8%

### Messbedingungen

DIN EN 13032 und DIN 5032

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|                                 |                                                 |                       |
|---------------------------------|-------------------------------------------------|-----------------------|
| Familie<br>Silica® 21 round M   | Bestell-Nr.: 51MF23DB3MBA<br>EAN: 4069025806703 | LP-Nummer<br>60072_28 |
| Wertetabelle Lichtstärkemessung |                                                 | Maximale Lichtstärke  |

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| 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°           | 472.5                 | 472.5                       | 472.5                       | 472.5                       | 472.5                       | 472.5                       | 472.5       | 2.8                  | 2.8               |
| 5°           | 473.1                 | 470.6                       | 467.9                       | 469.6                       | 471.8                       | 471.5                       | 471.4       | 22.5                 | 25.3              |
| 10°          | 467.0                 | 464.4                       | 461.3                       | 462.6                       | 464.5                       | 464.1                       | 464.1       | 44.1                 | 69.4              |
| 15°          | 455.4                 | 452.9                       | 449.6                       | 450.4                       | 451.7                       | 451.2                       | 451.0       | 64.1                 | 133.5             |
| 20°          | 439.7                 | 437.1                       | 433.3                       | 433.5                       | 434.4                       | 433.7                       | 433.5       | 81.5                 | 215.0             |
| 25°          | 420.7                 | 417.7                       | 413.1                       | 412.9                       | 413.8                       | 412.5                       | 411.7       | 96.0                 | 311.0             |
| 30°          | 397.9                 | 394.4                       | 388.9                       | 388.6                       | 389.9                       | 387.9                       | 386.4       | 107.0                | 418.0             |
| 35°          | 369.1                 | 365.7                       | 359.1                       | 359.5                       | 360.4                       | 358.3                       | 355.3       | 113.4                | 531.4             |
| 40°          | 325.1                 | 325.2                       | 319.3                       | 318.9                       | 313.7                       | 315.1                       | 311.5       | 112.2                | 643.6             |
| 45°          | 229.9                 | 244.7                       | 248.2                       | 243.4                       | 222.2                       | 243.0                       | 244.1       | 92.9                 | 736.5             |
| 50°          | 139.7                 | 160.3                       | 187.1                       | 160.2                       | 138.8                       | 157.7                       | 183.1       | 67.6                 | 804.1             |
| 55°          | 86.1                  | 98.4                        | 139.4                       | 97.9                        | 85.3                        | 95.8                        | 137.1       | 47.0                 | 851.1             |
| 60°          | 54.9                  | 66.5                        | 97.8                        | 67.2                        | 54.7                        | 65.6                        | 99.0        | 33.9                 | 885.0             |
| 65°          | 49.0                  | 56.8                        | 60.6                        | 58.2                        | 50.2                        | 58.3                        | 57.3        | 27.9                 | 913.0             |
| 70°          | 40.2                  | 49.0                        | 31.0                        | 49.9                        | 40.4                        | 50.0                        | 30.7        | 22.0                 | 934.9             |
| 75°          | 38.0                  | 34.2                        | 27.1                        | 34.9                        | 38.5                        | 34.7                        | 24.9        | 17.7                 | 952.6             |
| 80°          | 27.3                  | 20.6                        | 26.9                        | 20.0                        | 27.6                        | 21.0                        | 28.7        | 13.0                 | 965.6             |
| 85°          | 12.7                  | 11.9                        | 10.0                        | 11.9                        | 12.7                        | 12.2                        | 10.1        | 6.4                  | 972.0             |
| 90°          | 0.1                   | 0.1                         | 0.0                         | 0.1                         | 0.0                         | 0.1                         | 0.0         | 0.0                  | 972.0             |
| 95°          | 0.2                   | 0.2                         | 0.2                         | 0.2                         | 0.2                         | 0.2                         | 0.2         | 0.1                  | 972.2             |
| 100°         | 0.5                   | 0.5                         | 0.5                         | 0.5                         | 0.5                         | 0.5                         | 0.5         | 0.3                  | 972.5             |
| 105°         | 1.0                   | 1.0                         | 1.0                         | 1.0                         | 1.0                         | 1.0                         | 1.0         | 0.5                  | 973.0             |
| 110°         | 1.6                   | 1.6                         | 1.6                         | 1.6                         | 1.6                         | 1.6                         | 1.6         | 0.8                  | 973.8             |
| 115°         | 2.4                   | 2.4                         | 2.5                         | 2.5                         | 2.5                         | 2.5                         | 2.5         | 1.2                  | 975.0             |
| 120°         | 3.8                   | 3.7                         | 3.7                         | 3.7                         | 3.7                         | 3.7                         | 3.7         | 1.8                  | 976.8             |
| 125°         | 5.3                   | 5.3                         | 5.3                         | 5.3                         | 5.3                         | 5.3                         | 5.3         | 2.4                  | 979.2             |
| 130°         | 6.4                   | 6.4                         | 6.4                         | 6.4                         | 6.4                         | 6.4                         | 6.4         | 2.7                  | 981.9             |
| 135°         | 7.2                   | 7.2                         | 7.3                         | 7.3                         | 7.3                         | 7.3                         | 7.3         | 2.8                  | 984.7             |
| 140°         | 8.0                   | 8.0                         | 8.0                         | 8.1                         | 8.1                         | 8.0                         | 8.0         | 2.8                  | 987.5             |
| 145°         | 8.7                   | 8.7                         | 8.7                         | 8.7                         | 8.7                         | 8.7                         | 8.7         | 2.7                  | 990.2             |
| 150°         | 9.3                   | 9.3                         | 9.3                         | 9.3                         | 9.3                         | 9.3                         | 9.3         | 2.6                  | 992.8             |
| 155°         | 9.8                   | 9.8                         | 9.8                         | 9.8                         | 9.8                         | 9.8                         | 9.8         | 2.3                  | 995.1             |
| 160°         | 10.1                  | 10.1                        | 10.1                        | 10.1                        | 10.1                        | 10.1                        | 10.1        | 1.9                  | 997.0             |
| 165°         | 10.4                  | 10.4                        | 10.3                        | 10.4                        | 10.4                        | 10.3                        | 10.4        | 1.5                  | 998.4             |
| 170°         | 10.6                  | 10.6                        | 10.6                        | 10.5                        | 10.5                        | 10.5                        | 10.5        | 1.0                  | 999.4             |
| 175°         | 10.6                  | 10.6                        | 10.6                        | 10.6                        | 10.6                        | 10.6                        | 10.6        | 0.5                  | 999.9             |
| 180°         | 10.6                  | 10.6                        | 10.6                        | 10.6                        | 10.6                        | 10.6                        | 10.6        | 0.1                  | 1000.0            |

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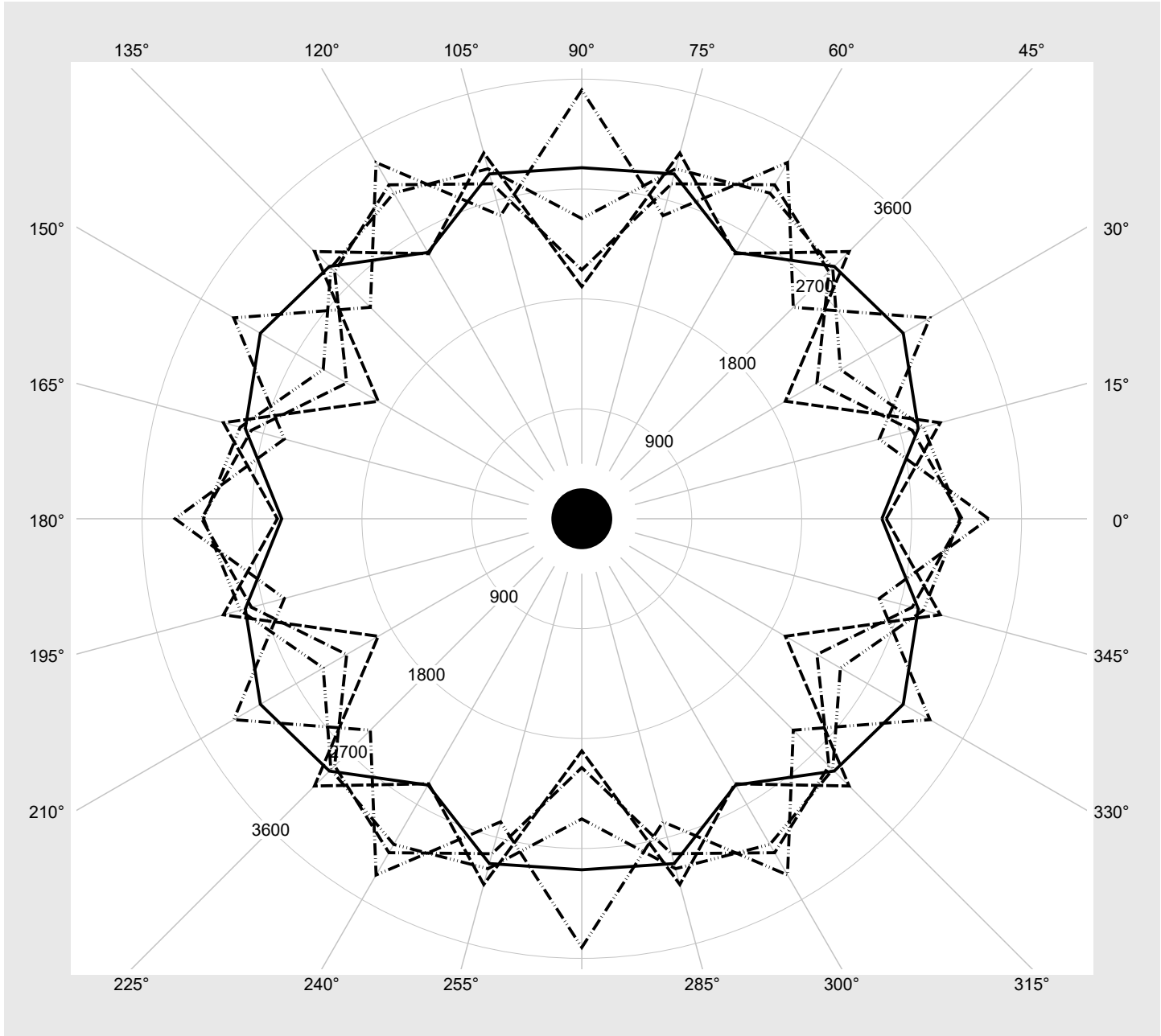
|                               |     |                                     |                                                 |      |      |      |                                       |      |                       |      |      |
|-------------------------------|-----|-------------------------------------|-------------------------------------------------|------|------|------|---------------------------------------|------|-----------------------|------|------|
| Familie<br>Silica® 21 round M |     |                                     | Bestell-Nr.: 51MF23DB3MBA<br>EAN: 4069025806703 |      |      |      |                                       |      | LP-Nummer<br>60072_28 |      |      |
| 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  | 16,9                                | 18,4                                            | 17,3 | 18,7 | 19,1 | 16,7                                  | 18,2 | 17,1                  | 18,5 | 18,9 |
|                               | 3H  | 17,6                                | 19,0                                            | 18,0 | 19,3 | 19,7 | 17,5                                  | 18,8 | 17,9                  | 19,2 | 19,5 |
|                               | 4H  | 18,1                                | 19,4                                            | 18,5 | 19,7 | 20,1 | 17,8                                  | 19,1 | 18,2                  | 19,4 | 19,8 |
|                               | 6H  | 18,6                                | 19,7                                            | 19,0 | 20,1 | 20,5 | 18,3                                  | 19,4 | 18,7                  | 19,8 | 20,2 |
|                               | 8H  | 18,8                                | 19,9                                            | 19,2 | 20,3 | 20,7 | 18,6                                  | 19,6 | 19,0                  | 20,0 | 20,4 |
|                               | 12H | 19,0                                | 20,0                                            | 19,4 | 20,4 | 20,8 | 18,7                                  | 19,7 | 19,1                  | 20,1 | 20,5 |
| 4H                            | 2H  | 17,2                                | 18,4                                            | 17,6 | 18,8 | 19,2 | 17,0                                  | 18,3 | 17,4                  | 18,6 | 19,0 |
|                               | 3H  | 18,0                                | 19,1                                            | 18,4 | 19,5 | 19,9 | 18,0                                  | 19,1 | 18,4                  | 19,5 | 19,9 |
|                               | 4H  | 18,6                                | 19,5                                            | 19,0 | 19,9 | 20,4 | 18,5                                  | 19,5 | 19,0                  | 19,9 | 20,3 |
|                               | 6H  | 19,2                                | 20,0                                            | 19,6 | 20,4 | 20,9 | 19,1                                  | 20,0 | 19,6                  | 20,4 | 20,8 |
|                               | 8H  | 19,4                                | 20,2                                            | 19,9 | 20,6 | 21,1 | 19,4                                  | 20,2 | 19,9                  | 20,6 | 21,1 |
|                               | 12H | 19,7                                | 20,3                                            | 20,2 | 20,8 | 21,3 | 19,6                                  | 20,3 | 20,1                  | 20,7 | 21,2 |
| 8H                            | 4H  | 18,8                                | 19,6                                            | 19,3 | 20,0 | 20,5 | 18,8                                  | 19,6 | 19,3                  | 20,0 | 20,5 |
|                               | 6H  | 19,6                                | 20,2                                            | 20,1 | 20,7 | 21,2 | 19,6                                  | 20,2 | 20,1                  | 20,7 | 21,2 |
|                               | 8H  | 20,0                                | 20,5                                            | 20,5 | 21,0 | 21,5 | 20,0                                  | 20,5 | 20,5                  | 21,0 | 21,5 |
|                               | 12H | 20,3                                | 20,7                                            | 20,8 | 21,2 | 21,8 | 20,3                                  | 20,7 | 20,8                  | 21,2 | 21,8 |
| 12H                           | 4H  | 18,9                                | 19,5                                            | 19,4 | 20,0 | 20,5 | 18,9                                  | 19,5 | 19,4                  | 20,0 | 20,5 |
|                               | 6H  | 19,7                                | 20,2                                            | 20,2 | 20,7 | 21,2 | 19,7                                  | 20,2 | 20,2                  | 20,7 | 21,2 |
|                               | 8H  | 20,1                                | 20,5                                            | 20,6 | 21,0 | 21,6 | 20,1                                  | 20,6 | 20,6                  | 21,1 | 21,6 |

|                       |          |                                 |                             |                                               |                             |                             |                             |             |
|-----------------------|----------|---------------------------------|-----------------------------|-----------------------------------------------|-----------------------------|-----------------------------|-----------------------------|-------------|
| Leuchtdichten-Tabelle |          | Max. für $\gamma \geq 65^\circ$ |                             | Lichttechnische<br>Abmessungen in mm: D = 586 |                             |                             |                             |             |
| C-<br>Ebenen          | $\gamma$ | 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° |
|                       |          |                                 | Leuchtdichte in cd/m²       |                                               |                             |                             |                             |             |
| 45°                   |          | 6895.6                          | 7339.1                      | 7445.0                                        | 7301.9                      | 6663.8                      | 7287.6                      | 7321.9      |
| 50°                   |          | 4609.3                          | 5287.9                      | 6173.9                                        | 5284.7                      | 4578.7                      | 5204.0                      | 6040.2      |
| 55°                   |          | 3183.7                          | 3637.2                      | 5154.3                                        | 3621.4                      | 3154.5                      | 3542.7                      | 5068.8      |
| 60°                   |          | 2326.7                          | 2818.9                      | 4150.4                                        | 2849.9                      | 2319.6                      | 2781.9                      | 4199.3      |
| 65°                   |          | 2456.8                          | 2852.0                      | 3038.8                                        | 2922.2                      | 2518.2                      | 2923.4                      | 2874.8      |
| 70°                   |          | 2492.2                          | 3038.2                      | 1924.6                                        | 3095.0                      | 2506.1                      | 3100.9                      | 1901.2      |
| 75°                   |          | 3112.8                          | 2800.4                      | 2222.8                                        | 2861.5                      | 3157.7                      | 2840.0                      | 2037.9      |
| 80°                   |          | 3329.9                          | 2521.4                      | 3290.4                                        | 2448.6                      | 3368.4                      | 2569.7                      | 3510.5      |
| 85°                   |          | 3096.8                          | 2895.8                      | 2444.6                                        | 2905.2                      | 3079.5                      | 2966.8                      | 2458.2      |

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|                                                                                                                                     |                                                                    |                                          |
|-------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|------------------------------------------|
| <div>Familie</div> <div>Silica® 21 round M</div>                                                                                    | <div>Bestell-Nr.: 51MF23DB3MBA</div> <div>EAN: 4069025806703</div> | <div>LP-Nummer</div> <div>60072_28</div> |
| <div>Leuchtdichten in cd/m²</div> <div> <div>γ 65°</div> <div>γ 70°</div> <div>γ 75°</div> <div>γ 80°</div> <div>γ 85°</div> </div> |                                                                    |                                          |

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|                                                        |                                                               |                                     |
|--------------------------------------------------------|---------------------------------------------------------------|-------------------------------------|
| <b>Familie</b><br><b>Silica® 21 round M</b>            | <b>Bestell-Nr.: 51MF23DB3MBA</b><br><b>EAN: 4069025806703</b> | <b>LP-Nummer</b><br><b>60072_28</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                     | 5720            | 35.8               |
| 95             | 241              | 252                     | 5433            | 33.9               |
| 90             | 228              | 250                     | 5146            | 32.1               |
| 85             | 215              | 248                     | 4857            | 30.3               |
| 80             | 202              | 246                     | 4569            | 28.5               |
| 75             | 190              | 243                     | 4300            | 26.9               |
| 70             | 177              | 241                     | 4009            | 25.1               |
| 65             | 164              | 238                     | 3717            | 23.4               |
| 60             | 151              | 235                     | 3423            | 21.7               |
| 55             | 139              | 232                     | 3151            | 20.0               |
| 50             | 126              | 228                     | 2856            | 18.3               |
| 45             | 114              | 225                     | 2583            | 16.7               |
| 40             | 101              | 220                     | 2285            | 15.0               |
| 35             | 89               | 216                     | 2010            | 13.4               |
| 30             | 76               | 210                     | 1711            | 11.8               |
| 25             | 64               | 204                     | 1435            | 10.2               |
| 20             | 51               | 195                     | 1135            | 8.5                |
| 15             | 39               | 185                     | 857             | 6.7                |
| 10             | 27               | 172                     | 578             | 5.0                |
| 5              | 14               | 148                     | 275             | 3.2                |
| 2              | 6                | 117                     | 88              | 2.1                |