

## Lichttechnischer Prüfbefund

**Familie**  
**Silica® 21 round S**

**Bestell-Nr.: 51ME23DA4MSA**  
**EAN: 4069025800336**

**LP-Nummer**  
**60072\_39**

**Seriendokumentation**  
**20.05.2026**



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

**Bestückung** LED 4000 K | CRI ≥ 80

**Betriebsgerät** EVG-DALI

**Bemessungswerte** Nettolichtstrom = 2480 lm  
Systemleistung = 17.8 W  
Lichtausbeute = 139.3 lm/W

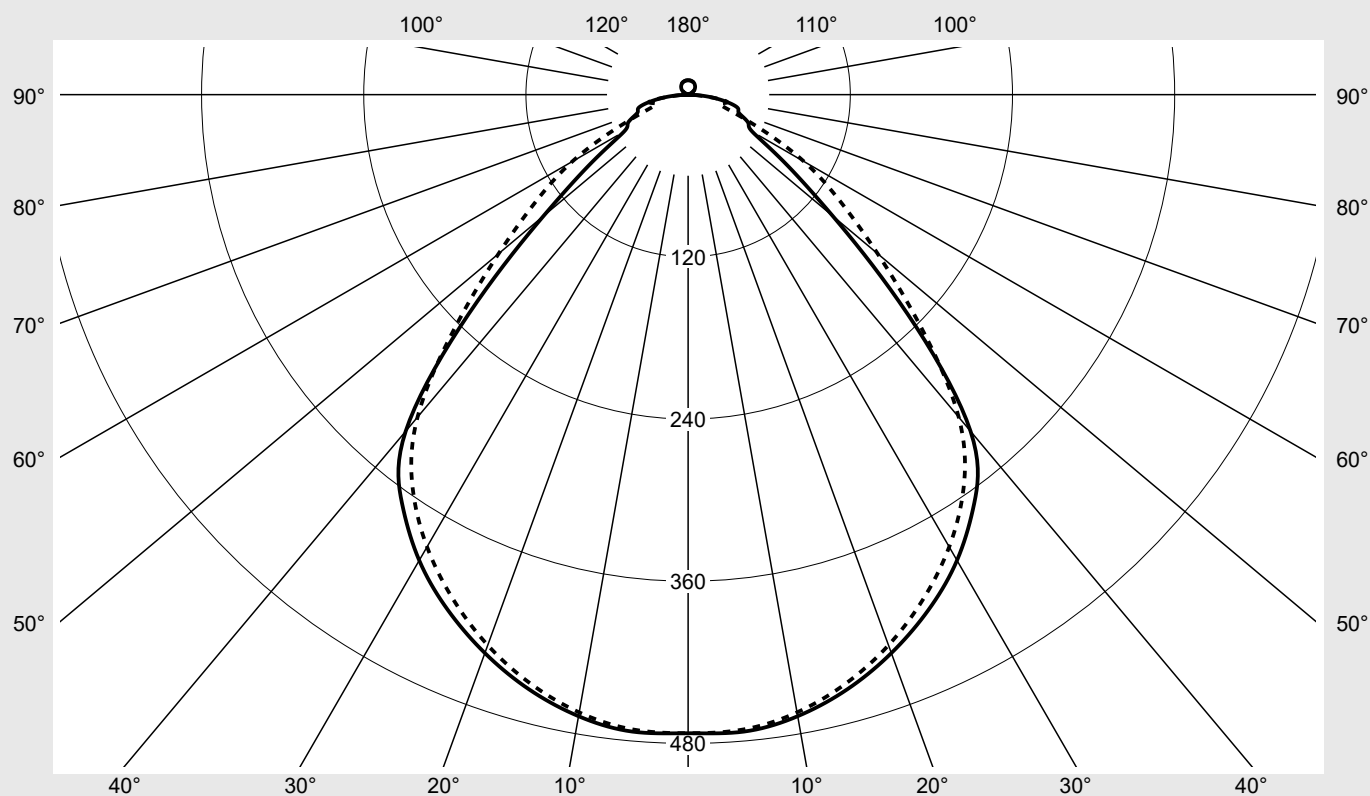
**siteco**

**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 S   | Bestell-Nr.: 51ME23DA4MSA<br>EAN: 4069025800336 | LP-Nummer<br>60072_39 |
| 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°           | 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            |

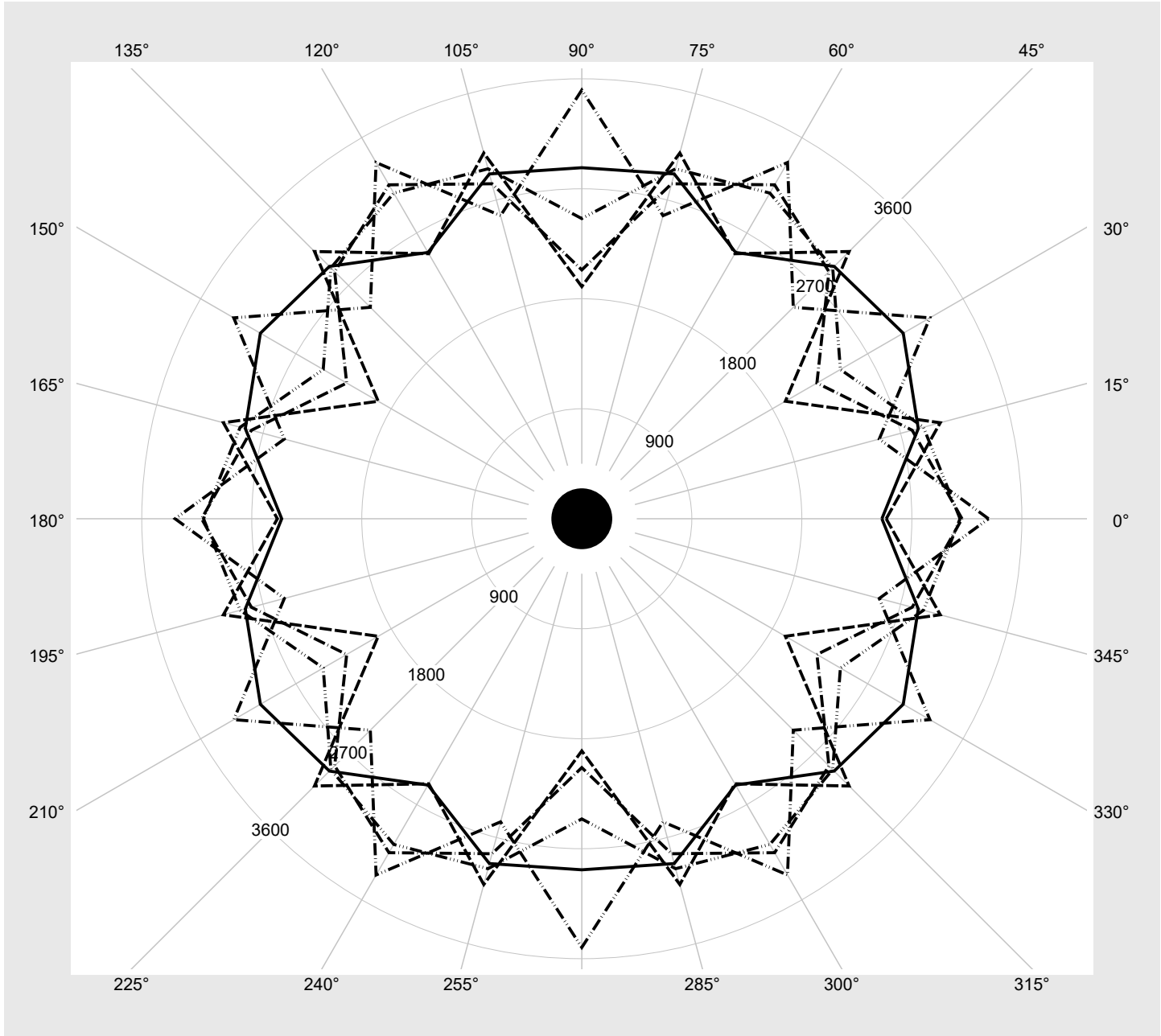
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|                               |     |                                     |                                                 |      |      |      |                                       |      |                       |      |      |
|-------------------------------|-----|-------------------------------------|-------------------------------------------------|------|------|------|---------------------------------------|------|-----------------------|------|------|
| Familie<br>Silica® 21 round S |     |                                     | Bestell-Nr.: 51ME23DA4MSA<br>EAN: 4069025800336 |      |      |      |                                       |      | LP-Nummer<br>60072_39 |      |      |
| 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                                  | 19,9 | 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 = 386 |                             |                             |             |  |
|-----------------------|-----------------------|---------------------------------|-----------------------------|-----------------------------------------------|-----------------------------|-----------------------------|-------------|--|
| 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°                   | 6890.4                | 7333.6                          | 7439.4                      | 7296.4                                        | 6658.9                      | 7282.2                      | 7316.4      |  |
| 50°                   | 4605.8                | 5283.9                          | 6169.3                      | 5280.8                                        | 4575.3                      | 5200.1                      | 6035.7      |  |
| 55°                   | 3181.4                | 3634.5                          | 5150.5                      | 3618.7                                        | 3152.1                      | 3540.1                      | 5065.0      |  |
| 60°                   | 2325.0                | 2816.8                          | 4147.3                      | 2847.8                                        | 2317.9                      | 2779.9                      | 4196.2      |  |
| 65°                   | 2455.0                | 2849.9                          | 3036.5                      | 2920.0                                        | 2516.3                      | 2921.2                      | 2872.6      |  |
| 70°                   | 2490.3                | 3035.9                          | 1923.2                      | 3092.7                                        | 2504.3                      | 3098.6                      | 1899.8      |  |
| 75°                   | 3110.5                | 2798.3                          | 2221.1                      | 2859.3                                        | 3155.3                      | 2837.9                      | 2036.4      |  |
| 80°                   | 3327.4                | 2519.5                          | 3288.0                      | 2446.7                                        | 3365.9                      | 2567.8                      | 3507.9      |  |
| 85°                   | 3094.4                | 2893.6                          | 2442.8                      | 2903.1                                        | 3077.2                      | 2964.6                      | 2456.4      |  |

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|                                                                                                                                 |                                                               |                                     |
|---------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|-------------------------------------|
| <b>Familie</b><br><b>Silica® 21 round S</b>                                                                                     | <b>Bestell-Nr.: 51ME23DA4MSA</b><br><b>EAN: 4069025800336</b> | <b>LP-Nummer</b><br><b>60072_39</b> |
| <b>Leuchtdichten in cd/m²</b> <div> <div>γ 65°</div> <div>γ 70°</div> <div>γ 75°</div> <div>γ 80°</div> <div>γ 85°</div> </div> |                                                               | <div>siteco</div>                   |



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|                                                        |                                                               |                                     |
|--------------------------------------------------------|---------------------------------------------------------------|-------------------------------------|
| <b>Familie</b><br><b>Silica® 21 round S</b>            | <b>Bestell-Nr.: 51ME23DA4MSA</b><br><b>EAN: 4069025800336</b> | <b>LP-Nummer</b><br><b>60072_39</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                     | 2480            | 17.8               |
| 95             | 241              | 252                     | 2354            | 16.9               |
| 90             | 228              | 250                     | 2228            | 16.1               |
| 85             | 216              | 248                     | 2111            | 15.2               |
| 80             | 203              | 246                     | 1984            | 14.3               |
| 75             | 190              | 243                     | 1857            | 13.4               |
| 70             | 178              | 241                     | 1740            | 12.7               |
| 65             | 165              | 238                     | 1612            | 11.9               |
| 60             | 152              | 235                     | 1485            | 11.1               |
| 55             | 140              | 232                     | 1367            | 10.3               |
| 50             | 127              | 229                     | 1239            | 9.4                |
| 45             | 114              | 225                     | 1111            | 8.6                |
| 40             | 102              | 221                     | 993             | 7.8                |
| 35             | 89               | 216                     | 864             | 6.9                |
| 30             | 77               | 210                     | 745             | 6.1                |
| 25             | 64               | 204                     | 617             | 5.2                |
| 20             | 52               | 196                     | 498             | 4.3                |
| 15             | 39               | 185                     | 368             | 3.4                |
| 10             | 27               | 172                     | 249             | 2.6                |
| 5              | 15               | 150                     | 129             | 1.5                |
| 4              | 12               | 142                     | 99              | 1.3                |