

## Lichttechnischer Prüfbefund

**Familie**  
**Silica® 21 round L**

**Bestell-Nr.: 51MF43DC4MBA**  
**EAN: 4069025809872**

**LP-Nummer**  
**59826\_860**

**Seriendokumentation**  
**20.05.2026**

**siteco**



**Ausführung** Pendelleuchte, Gehäuse, schwarz,  
Mikroprismenoptik, direkt breit strahlend,  
UGR≤19

**Bestückung** LED 4000 K | CRI ≥ 80

**Betriebsgerät** EVG-DALI

**Bemessungswerte** Nettolichtstrom = 12730 lm  
Systemleistung = 73.8 W  
Lichtausbeute = 172.5 lm/W

**Lichtstärke in cd/klm**

**C180-0**

**C270-90**

**Imax: 487 cd/klm**



### Klassifizierungen

DIN 5040 A 5 0  
CIE N1=64 N2=89 N3=97  
N4=100 N5=100

### Leuchtenbetriebswirkungsgrade

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

### Messbedingungen

DIN EN 13032 und DIN 5032

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|                                 |                                                 |                        |
|---------------------------------|-------------------------------------------------|------------------------|
| Familie<br>Silica® 21 round L   | Bestell-Nr.: 51MF43DC4MBA<br>EAN: 4069025809872 | LP-Nummer<br>59826_860 |
| 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°           | 486.1                 | 486.1                       | 486.1                       | 486.1                       | 486.1                       | 486.1                       | 486.1       | 2.9                  | 2.9               |
| 5°           | 486.7                 | 484.1                       | 481.4                       | 483.1                       | 485.4                       | 485.1                       | 485.0       | 23.1                 | 26.0              |
| 10°          | 480.4                 | 477.8                       | 474.6                       | 475.9                       | 477.9                       | 477.5                       | 477.5       | 45.4                 | 71.5              |
| 15°          | 468.5                 | 466.0                       | 462.5                       | 463.3                       | 464.8                       | 464.2                       | 464.0       | 65.9                 | 137.4             |
| 20°          | 452.3                 | 449.7                       | 445.8                       | 446.0                       | 446.9                       | 446.2                       | 446.0       | 83.9                 | 221.2             |
| 25°          | 432.8                 | 429.8                       | 425.0                       | 424.8                       | 425.7                       | 424.4                       | 423.6       | 98.8                 | 320.0             |
| 30°          | 409.4                 | 405.7                       | 400.1                       | 399.8                       | 401.2                       | 399.1                       | 397.5       | 110.0                | 430.0             |
| 35°          | 379.7                 | 376.2                       | 369.4                       | 369.8                       | 370.7                       | 368.6                       | 365.6       | 116.7                | 546.7             |
| 40°          | 334.5                 | 334.6                       | 328.5                       | 328.1                       | 322.7                       | 324.2                       | 320.4       | 115.4                | 662.1             |
| 45°          | 236.5                 | 251.7                       | 255.4                       | 250.5                       | 228.6                       | 250.0                       | 251.1       | 95.6                 | 757.7             |
| 50°          | 143.7                 | 164.9                       | 192.5                       | 164.8                       | 142.8                       | 162.3                       | 188.3       | 69.5                 | 827.3             |
| 55°          | 88.6                  | 101.2                       | 143.4                       | 100.8                       | 87.8                        | 98.6                        | 141.0       | 48.4                 | 875.6             |
| 60°          | 56.4                  | 68.4                        | 100.7                       | 69.1                        | 56.3                        | 67.5                        | 101.9       | 34.9                 | 910.5             |
| 65°          | 50.4                  | 58.5                        | 62.3                        | 59.9                        | 51.6                        | 59.9                        | 58.9        | 28.7                 | 939.3             |
| 70°          | 41.3                  | 50.4                        | 31.9                        | 51.3                        | 41.6                        | 51.4                        | 31.5        | 22.6                 | 961.8             |
| 75°          | 39.1                  | 35.2                        | 27.9                        | 35.9                        | 39.6                        | 35.7                        | 25.6        | 18.2                 | 980.1             |
| 80°          | 28.0                  | 21.2                        | 27.7                        | 20.6                        | 28.4                        | 21.6                        | 29.6        | 13.4                 | 993.4             |
| 85°          | 13.1                  | 12.2                        | 10.3                        | 12.3                        | 13.0                        | 12.5                        | 10.4        | 6.6                  | 1000.0            |
| 90°          | 0.0                   | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0         | 0.0                  | 1000.0            |
| 95°          | 0.0                   | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0         | 0.0                  | 1000.0            |
| 100°         | 0.0                   | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0         | 0.0                  | 1000.0            |
| 105°         | 0.0                   | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0         | 0.0                  | 1000.0            |
| 110°         | 0.0                   | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0         | 0.0                  | 1000.0            |
| 115°         | 0.0                   | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0         | 0.0                  | 1000.0            |
| 120°         | 0.0                   | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0         | 0.0                  | 1000.0            |
| 125°         | 0.0                   | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0         | 0.0                  | 1000.0            |
| 130°         | 0.0                   | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0         | 0.0                  | 1000.0            |
| 135°         | 0.0                   | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0         | 0.0                  | 1000.0            |
| 140°         | 0.0                   | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0         | 0.0                  | 1000.0            |
| 145°         | 0.0                   | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0         | 0.0                  | 1000.0            |
| 150°         | 0.0                   | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0         | 0.0                  | 1000.0            |
| 155°         | 0.0                   | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0         | 0.0                  | 1000.0            |
| 160°         | 0.0                   | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0         | 0.0                  | 1000.0            |
| 165°         | 0.0                   | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0         | 0.0                  | 1000.0            |
| 170°         | 0.0                   | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0         | 0.0                  | 1000.0            |
| 175°         | 0.0                   | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0         | 0.0                  | 1000.0            |
| 180°         | 0.0                   | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0         | 0.0                  | 1000.0            |

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|                               |     |                                     |                                                 |      |      |      |                                       |      |                        |      |      |
|-------------------------------|-----|-------------------------------------|-------------------------------------------------|------|------|------|---------------------------------------|------|------------------------|------|------|
| Familie<br>Silica® 21 round L |     |                                     | Bestell-Nr.: 51MF43DC4MBA<br>EAN: 4069025809872 |      |      |      |                                       |      | LP-Nummer<br>59826_860 |      |      |
| 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 | 18,6                                  | 19,5 | 19,0                   | 19,9 | 20,4 |
|                               | 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 γ >= 65°                          |                             |                             |                             |                             |                             |             |
|                       |   | Lichttechnische Abmessungen in mm: D = 886 |                             |                             |                             |                             |                             |             |
| C-<br>Ebenen          | γ | 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°                   |   | 6906.6                                     | 7350.8                      | 7456.9                      | 7313.5                      | 6674.5                      | 7299.2                      | 7333.6      |
| 50°                   |   | 4616.6                                     | 5296.3                      | 6183.8                      | 5293.2                      | 4586.0                      | 5212.3                      | 6049.8      |
| 55°                   |   | 3188.9                                     | 3643.0                      | 5162.6                      | 3627.1                      | 3159.6                      | 3548.4                      | 5076.9      |
| 60°                   |   | 2330.4                                     | 2823.4                      | 4157.0                      | 2854.5                      | 2323.3                      | 2786.4                      | 4206.1      |
| 65°                   |   | 2460.8                                     | 2856.6                      | 3043.6                      | 2926.8                      | 2522.2                      | 2928.0                      | 2879.4      |
| 70°                   |   | 2496.2                                     | 3043.1                      | 1927.7                      | 3099.9                      | 2510.1                      | 3105.8                      | 1904.2      |
| 75°                   |   | 3117.7                                     | 2804.9                      | 2226.3                      | 2866.0                      | 3162.7                      | 2844.5                      | 2041.2      |
| 80°                   |   | 3335.2                                     | 2525.3                      | 3295.6                      | 2452.4                      | 3373.7                      | 2573.8                      | 3516.1      |
| 85°                   |   | 3101.6                                     | 2900.4                      | 2448.4                      | 2909.9                      | 3084.3                      | 2971.5                      | 2462.2      |

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|                                                                                                                                 |                                                               |                                      |                   |
|---------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|--------------------------------------|-------------------|
| <b>Familie</b><br><b>Silica® 21 round L</b>                                                                                     | <b>Bestell-Nr.: 51MF43DC4MBA</b><br><b>EAN: 4069025809872</b> | <b>LP-Nummer</b><br><b>59826_860</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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|                                                            |                                                            |                                   |
|------------------------------------------------------------|------------------------------------------------------------|-----------------------------------|
| <p>Familie</p> <p>Silica® 21 round L</p>                   | <p>Bestell-Nr.: 51MF43DC4MBA</p> <p>EAN: 4069025809872</p> | <p>LP-Nummer</p> <p>59826_860</p> |
| <p>Dimmstufen-Tabelle</p> <p>Umgebungstemperatur: 25°C</p> |                                                            | <p>siteco</p>                     |

| Lichtstrom [%] | Dimmstufe linear | Dimmstufe logarithmisch | Lichtstrom [lm] | Systemleistung [W] |
|----------------|------------------|-------------------------|-----------------|--------------------|
| 100            | 254              | 254                     | 12730           | 73.8               |
| 95             | 241              | 252                     | 12091           | 70.0               |
| 90             | 228              | 250                     | 11451           | 66.2               |
| 85             | 215              | 248                     | 10806           | 62.5               |
| 80             | 202              | 246                     | 10161           | 58.8               |
| 75             | 190              | 243                     | 9563            | 55.4               |
| 70             | 177              | 241                     | 8912            | 51.7               |
| 65             | 164              | 238                     | 8259            | 48.1               |
| 60             | 152              | 235                     | 7655            | 44.6               |
| 55             | 139              | 232                     | 6999            | 41.0               |
| 50             | 126              | 228                     | 6340            | 37.3               |
| 45             | 114              | 225                     | 5730            | 34.0               |
| 40             | 101              | 220                     | 5067            | 30.3               |
| 35             | 89               | 216                     | 4453            | 27.1               |
| 30             | 77               | 210                     | 3836            | 23.7               |
| 25             | 64               | 204                     | 3165            | 20.2               |
| 20             | 52               | 196                     | 2544            | 16.9               |
| 15             | 40               | 186                     | 1921            | 13.7               |
| 10             | 28               | 173                     | 1296            | 10.6               |
| 5              | 15               | 150                     | 617             | 7.0                |
| 0              | 3                | 91                      | -12             | 3.4                |