

# Lichttechnischer Prüfbefund

|                                                                                   |                                                                    |                                                                                                   |                                                     |
|-----------------------------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|-----------------------------------------------------|
| <div>Familie</div> <div>Silica® 21 round S</div>                                  | <div>Bestell-Nr.: 51MF63DA4MWA</div> <div>EAN: 4069025810878</div> | <div>LP-Nummer</div> <div>59826_776</div>                                                         |                                                     |
|  | <div>Ausführung</div>                                              | <div>Anbauleuchte, Gehäuse, weiß,<br/>Mikroprismenoptik, direkt breit strahlend,<br/>UGR≤19</div> | <div>Seriodokumentation</div> <div>20.05.2026</div> |
|                                                                                   | <div>Bestückung</div>                                              | <div>LED 4000 K   CRI ≥ 80</div>                                                                  |                                                     |
|                                                                                   | <div>Betriebsgerät</div>                                           | <div>EVG-DALI</div>                                                                               |                                                     |
|                                                                                   | <div>Bemessungswerte</div>                                         | <div>Nettolichtstrom = 2410 lm<br/>Systemleistung = 15.0 W<br/>Lichtausbeute = 160.7 lm/W</div>   |                                                     |
|                                                                                   |                                                                    |                                                                                                   |                                                     |
| <div>siteco</div>                                                                 |                                                                    |                                                                                                   |                                                     |



|                   |                   |                               |        |
|-------------------|-------------------|-------------------------------|--------|
| Klassifizierungen |                   | Leuchtenbetriebswirkungsgrade |        |
| DIN 5040          | A 5 0             | $\eta_{LB}$                   | 100,0% |
| CIE               | N1=64 N2=89 N3=97 | $\phi_u$                      | 100,0% |
|                   | N4=100 N5=100     | $\phi_o$                      | 0,0%   |

|                           |
|---------------------------|
| Messbedingungen           |
| DIN EN 13032 und DIN 5032 |

Lichttechnischer Prüfbefund

|                                 |                                                 |                        |
|---------------------------------|-------------------------------------------------|------------------------|
| Familie<br>Silica® 21 round S   | Bestell-Nr.: 51MF63DA4MWA<br>EAN: 4069025810878 | LP-Nummer<br>59826_776 |
| 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°           | 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            |

Lichttechnischer Prüfbefund

|                               |     |                                     |                                                 |      |      |      |                                       |      |                        |      |      |
|-------------------------------|-----|-------------------------------------|-------------------------------------------------|------|------|------|---------------------------------------|------|------------------------|------|------|
| Familie<br>Silica® 21 round S |     |                                     | Bestell-Nr.: 51MF63DA4MWA<br>EAN: 4069025810878 |      |      |      |                                       |      | LP-Nummer<br>59826_776 |      |      |
| 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 | 18,2                                  | 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 | 19,1 | 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°                   | 6888.8                | 7331.9                          | 7437.7                      | 7294.7                                        | 6657.3                      | 7280.5                      | 7314.7      |
| 50°                   | 4604.7                | 5282.7                          | 6167.9                      | 5279.6                                        | 4574.2                      | 5198.9                      | 6034.2      |
| 55°                   | 3180.7                | 3633.7                          | 5149.3                      | 3617.8                                        | 3151.4                      | 3539.2                      | 5063.8      |
| 60°                   | 2324.4                | 2816.2                          | 4146.3                      | 2847.1                                        | 2317.3                      | 2779.2                      | 4195.2      |
| 65°                   | 2454.4                | 2849.2                          | 3035.8                      | 2919.3                                        | 2515.7                      | 2920.5                      | 2872.0      |
| 70°                   | 2489.7                | 3035.2                          | 1922.7                      | 3092.0                                        | 2503.7                      | 3097.9                      | 1899.3      |
| 75°                   | 3109.7                | 2797.7                          | 2220.6                      | 2858.6                                        | 3154.6                      | 2837.2                      | 2035.9      |
| 80°                   | 3326.6                | 2518.8                          | 3287.1                      | 2446.1                                        | 3365.0                      | 2567.2                      | 3507.1      |
| 85°                   | 3093.6                | 2893.0                          | 2442.1                      | 2902.4                                        | 3076.3                      | 2963.9                      | 2455.8      |

Lichttechnischer Prüfbefund

|                                                                                                                                 |                                                               |                                      |  |
|---------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|--------------------------------------|--|
| <b>Familie</b><br><b>Silica® 21 round S</b>                                                                                     | <b>Bestell-Nr.: 51MF63DA4MWA</b><br><b>EAN: 4069025810878</b> | <b>LP-Nummer</b><br><b>59826_776</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> |                                                               |                                      |  |



Lichttechnischer Prüfbefund

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|--------------------------------------------------------|---------------------------------------------------------------|--------------------------------------|
| <b>Familie</b><br><b>Silica® 21 round S</b>            | <b>Bestell-Nr.: 51MF63DA4MWA</b><br><b>EAN: 4069025810878</b> | <b>LP-Nummer</b><br><b>59826_776</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                     | 2410            | 15.0               |
| 95             | 241              | 252                     | 2288            | 14.2               |
| 90             | 228              | 250                     | 2165            | 13.5               |
| 85             | 216              | 248                     | 2052            | 12.8               |
| 80             | 203              | 246                     | 1929            | 12.2               |
| 75             | 190              | 243                     | 1806            | 11.4               |
| 70             | 177              | 241                     | 1682            | 10.7               |
| 65             | 165              | 238                     | 1568            | 10.1               |
| 60             | 152              | 235                     | 1444            | 9.4                |
| 55             | 140              | 232                     | 1329            | 8.7                |
| 50             | 127              | 229                     | 1204            | 8.0                |
| 45             | 115              | 225                     | 1089            | 7.3                |
| 40             | 102              | 221                     | 963             | 6.5                |
| 35             | 90               | 216                     | 847             | 5.9                |
| 30             | 77               | 210                     | 721             | 5.1                |
| 25             | 65               | 204                     | 604             | 4.4                |
| 20             | 53               | 197                     | 487             | 3.8                |
| 15             | 40               | 186                     | 359             | 3.0                |
| 10             | 28               | 173                     | 242             | 2.2                |
| 5              | 16               | 153                     | 123             | 1.4                |
| 4              | 14               | 148                     | 103             | 1.3                |