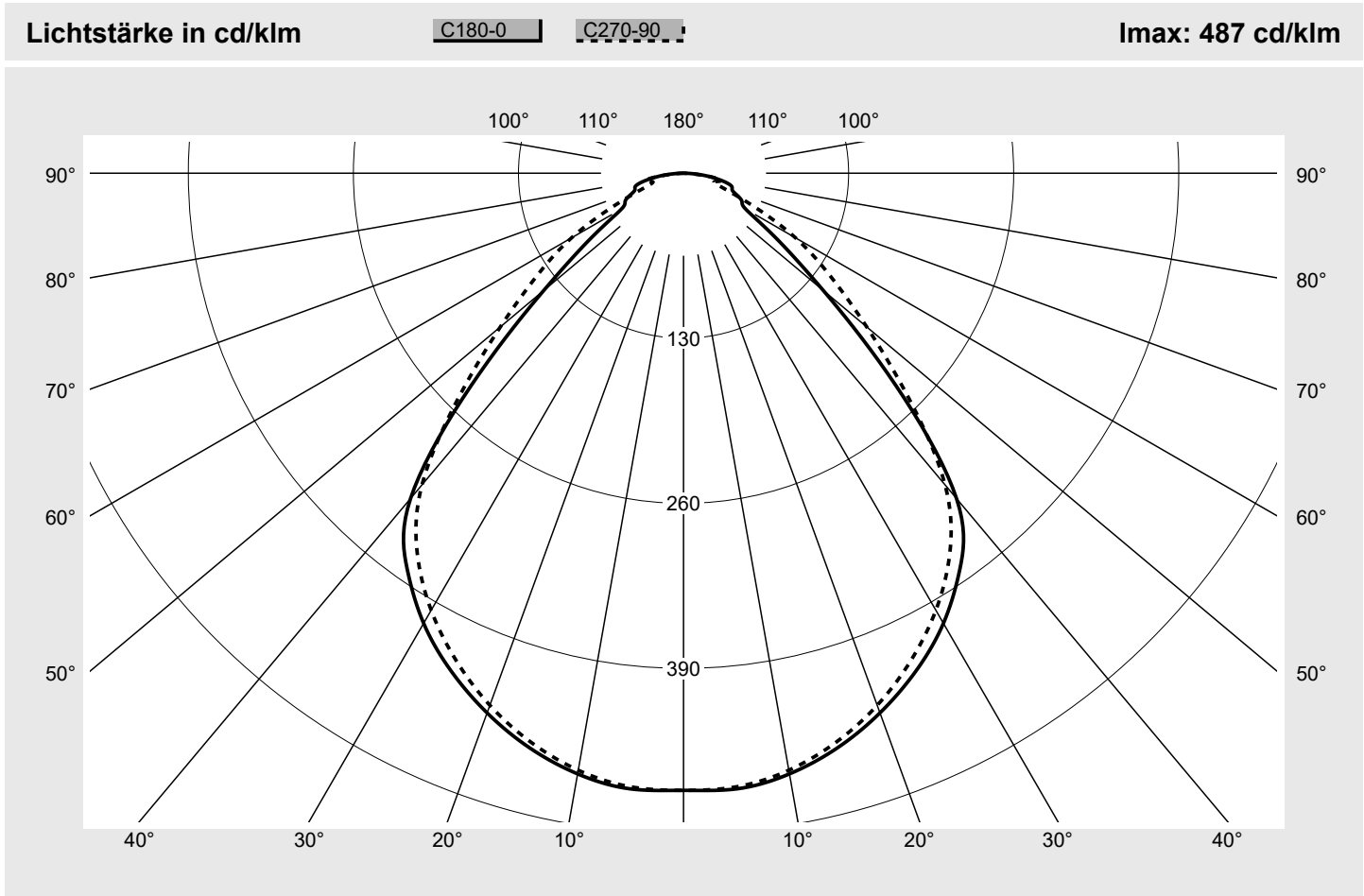


Lichttechnischer Prüfbefund

|                                                                                  |                                                               |                                                                                                    |
|----------------------------------------------------------------------------------|---------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| <b>Familie</b><br><b>Silica® 21 rectangular</b>                                  | <b>Bestell-Nr.: 51MA63D84LWA</b><br><b>EAN: 4069025628954</b> | <b>LP-Nummer</b><br><b>59826_146</b>                                                               |
|  | <b>Ausführung</b>                                             | Anbauleuchte, direkt strahlend,<br>Mikroprismenabdeckung, Gehäuse, weiß,<br>UGR≤19 (L65≤3000cd/m²) |
|                                                                                  | <b>Bestückung</b>                                             | LED 4000 K   CRI ≥ 80                                                                              |
|                                                                                  | <b>Betriebsgerät</b>                                          | EVG-DALI                                                                                           |
|                                                                                  | <b>Bemessungswerte</b>                                        | Nettolichtstrom = 5500 lm<br>Systemleistung = 33.6 W<br>Lichtausbeute = 163.7 lm/W                 |
|                                                                                  |                                                               | <b>Seriendokumentation</b><br><b>13.01.2026</b>                                                    |
|                                                                                  |                                                               | <b>siteco</b>                                                                                      |



| 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 |

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|                                   |                                                 |                        |
|-----------------------------------|-------------------------------------------------|------------------------|
| Familie<br>Silica® 21 rectangular | Bestell-Nr.: 51MA63D84LWA<br>EAN: 4069025628954 | LP-Nummer<br>59826_146 |
| 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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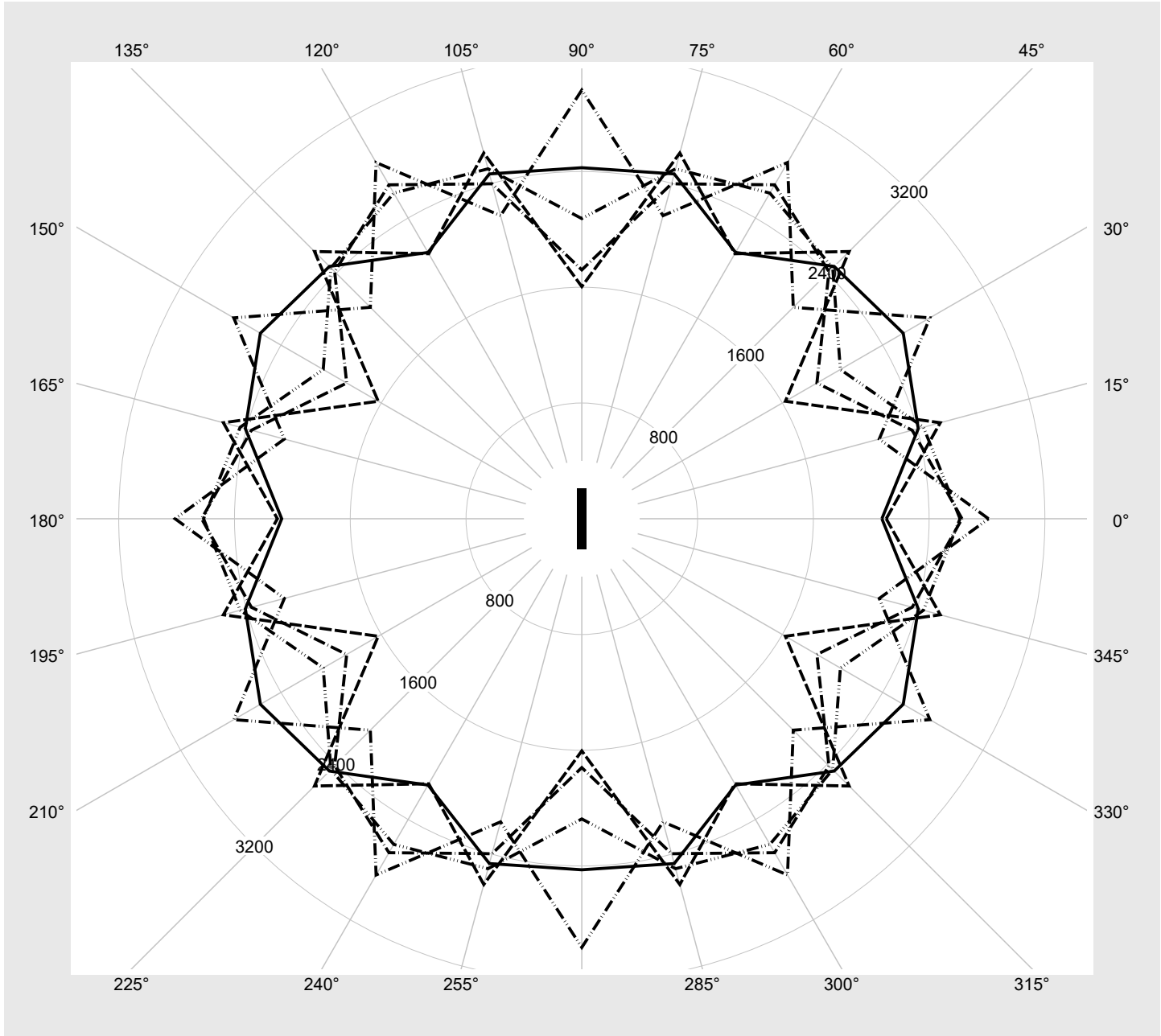
|                                   |     |                                     |                                                 |      |      |      |                                       |      |                        |      |      |
|-----------------------------------|-----|-------------------------------------|-------------------------------------------------|------|------|------|---------------------------------------|------|------------------------|------|------|
| Familie<br>Silica® 21 rectangular |     |                                     | Bestell-Nr.: 51MA63D84LWA<br>EAN: 4069025628954 |      |      |      |                                       |      | LP-Nummer<br>59826_146 |      |      |
| 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  | 16,3                                | 17,8                                            | 16,7 | 18,1 | 18,5 | 16,1                                  | 17,6 | 16,5                   | 18,0 | 18,3 |
|                                   | 3H  | 17,0                                | 18,4                                            | 17,4 | 18,7 | 19,1 | 16,9                                  | 18,2 | 17,3                   | 18,6 | 18,9 |
|                                   | 4H  | 17,5                                | 18,8                                            | 17,9 | 19,1 | 19,5 | 17,2                                  | 18,5 | 17,6                   | 18,8 | 19,2 |
|                                   | 6H  | 18,0                                | 19,1                                            | 18,4 | 19,5 | 19,9 | 17,7                                  | 18,8 | 18,1                   | 19,2 | 19,6 |
|                                   | 8H  | 18,2                                | 19,3                                            | 18,6 | 19,7 | 20,1 | 18,0                                  | 19,0 | 18,4                   | 19,4 | 19,8 |
|                                   | 12H | 18,4                                | 19,4                                            | 18,8 | 19,8 | 20,2 | 18,1                                  | 19,1 | 18,5                   | 19,5 | 19,9 |
| 4H                                | 2H  | 16,6                                | 17,8                                            | 17,0 | 18,2 | 18,6 | 16,4                                  | 17,7 | 16,8                   | 18,1 | 18,4 |
|                                   | 3H  | 17,4                                | 18,5                                            | 17,8 | 18,9 | 19,3 | 17,4                                  | 18,5 | 17,8                   | 18,9 | 19,3 |
|                                   | 4H  | 18,0                                | 18,9                                            | 18,4 | 19,4 | 19,8 | 18,0                                  | 18,9 | 18,4                   | 19,3 | 19,8 |
|                                   | 6H  | 18,6                                | 19,4                                            | 19,0 | 19,8 | 20,3 | 18,5                                  | 19,4 | 19,0                   | 19,8 | 20,3 |
|                                   | 8H  | 18,9                                | 19,6                                            | 19,3 | 20,0 | 20,5 | 18,8                                  | 19,6 | 19,3                   | 20,0 | 20,5 |
|                                   | 12H | 19,1                                | 19,8                                            | 19,6 | 20,2 | 20,7 | 19,0                                  | 19,7 | 19,5                   | 20,1 | 20,6 |
| 8H                                | 4H  | 18,2                                | 19,0                                            | 18,7 | 19,4 | 19,9 | 18,2                                  | 19,0 | 18,7                   | 19,4 | 19,9 |
|                                   | 6H  | 19,0                                | 19,6                                            | 19,5 | 20,1 | 20,6 | 19,0                                  | 19,6 | 19,5                   | 20,1 | 20,6 |
|                                   | 8H  | 19,4                                | 19,9                                            | 19,9 | 20,4 | 20,9 | 19,4                                  | 19,9 | 19,9                   | 20,4 | 20,9 |
|                                   | 12H | 19,7                                | 20,1                                            | 20,2 | 20,6 | 21,2 | 19,7                                  | 20,1 | 20,2                   | 20,6 | 21,2 |
| 12H                               | 4H  | 18,3                                | 19,0                                            | 18,8 | 19,4 | 19,9 | 18,3                                  | 18,9 | 18,8                   | 19,4 | 19,9 |
|                                   | 6H  | 19,1                                | 19,6                                            | 19,6 | 20,1 | 20,6 | 19,1                                  | 19,6 | 19,6                   | 20,1 | 20,6 |
|                                   | 8H  | 19,5                                | 20,0                                            | 20,0 | 20,5 | 21,0 | 19,5                                  | 20,0 | 20,0                   | 20,5 | 21,0 |

| Leuchtdichten-Tabelle |                       | Max. für $\gamma \geq 65^\circ$ |                             | Lichttechnische<br>Abmessungen in mm: |                             | L = 1484<br>B = 213         |             |
|-----------------------|-----------------------|---------------------------------|-----------------------------|---------------------------------------|-----------------------------|-----------------------------|-------------|
| 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°                   | 5820.3                | 6194.6                          | 6284.0                      | 6163.2                                | 5624.6                      | 6151.1                      | 6180.1      |
| 50°                   | 3890.5                | 4463.3                          | 5211.1                      | 4460.6                                | 3864.7                      | 4392.5                      | 5098.2      |
| 55°                   | 2687.3                | 3070.0                          | 4350.5                      | 3056.6                                | 2662.6                      | 2990.2                      | 4278.3      |
| 60°                   | 1963.9                | 2379.3                          | 3503.2                      | 2405.5                                | 1957.9                      | 2348.1                      | 3544.5      |
| 65°                   | 2073.7                | 2407.3                          | 2564.9                      | 2466.5                                | 2125.5                      | 2467.5                      | 2426.5      |
| 70°                   | 2103.5                | 2564.4                          | 1624.5                      | 2612.3                                | 2115.3                      | 2617.3                      | 1604.7      |
| 75°                   | 2627.4                | 2363.8                          | 1876.1                      | 2415.2                                | 2665.3                      | 2397.1                      | 1720.1      |
| 80°                   | 2810.6                | 2128.1                          | 2777.2                      | 2066.7                                | 2843.0                      | 2169.0                      | 2963.1      |
| 85°                   | 2613.7                | 2444.2                          | 2063.3                      | 2452.2                                | 2599.1                      | 2504.1                      | 2074.9      |

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|                                                                                                                                 |                                                            |                                   |
|---------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|-----------------------------------|
| <p>Familie</p> <p>Silica® 21 rectangular</p>                                                                                    | <p>Bestell-Nr.: 51MA63D84LWA</p> <p>EAN: 4069025628954</p> | <p>LP-Nummer</p> <p>59826_146</p> |
| <p>Leuchtdichten in cd/m²</p> <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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|                                                            |                                                            |                                   |
|------------------------------------------------------------|------------------------------------------------------------|-----------------------------------|
| <p>Familie</p> <p>Silica® 21 rectangular</p>               | <p>Bestell-Nr.: 51MA63D84LWA</p> <p>EAN: 4069025628954</p> | <p>LP-Nummer</p> <p>59826_146</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                     | 5500            | 33.6               |
| 95             | 240              | 252                     | 5219            | 31.8               |
| 90             | 227              | 250                     | 4957            | 30.2               |
| 85             | 213              | 248                     | 4673            | 28.4               |
| 80             | 200              | 245                     | 4406            | 26.8               |
| 75             | 186              | 243                     | 4117            | 25.0               |
| 70             | 173              | 240                     | 3846            | 23.3               |
| 65             | 160              | 237                     | 3570            | 21.5               |
| 60             | 147              | 234                     | 3294            | 19.9               |
| 55             | 134              | 231                     | 3016            | 18.2               |
| 50             | 122              | 227                     | 2758            | 16.6               |
| 45             | 109              | 223                     | 2475            | 14.8               |
| 40             | 97               | 219                     | 2211            | 13.3               |
| 35             | 84               | 213                     | 1923            | 11.7               |
| 30             | 72               | 208                     | 1653            | 10.2               |
| 25             | 60               | 201                     | 1382            | 8.6                |
| 20             | 48               | 193                     | 1108            | 7.1                |
| 15             | 36               | 182                     | 831             | 5.6                |
| 10             | 24               | 168                     | 552             | 4.0                |
| 5              | 12               | 142                     | 268             | 2.2                |
| 4              | 9                | 132                     | 197             | 1.8                |