

## Lichttechnischer Prüfbefund

Familie  
Silica® 21

Bestell-Nr.: 51MX30DB35WB  
EAN: 4058352886571

LP-Nummer  
59413\_72



**Ausführung** Pendelleuchte, homogen leuchtend,  
Abdeckung, opal, direkt-/ indirekt strahlend,  
extrem breit strahlend,  $UGR \leq 25$

**Bestückung** LED 3000 K | CRI  $\geq 80$

**Betriebsgerät** EVG-DALI

**Bemessungswerte** Nettolichtstrom = 5260 lm  
Systemleistung = 34.1 W  
Lichtausbeute = 154.3 lm/W

Seriendokumentation  
02.08.2023

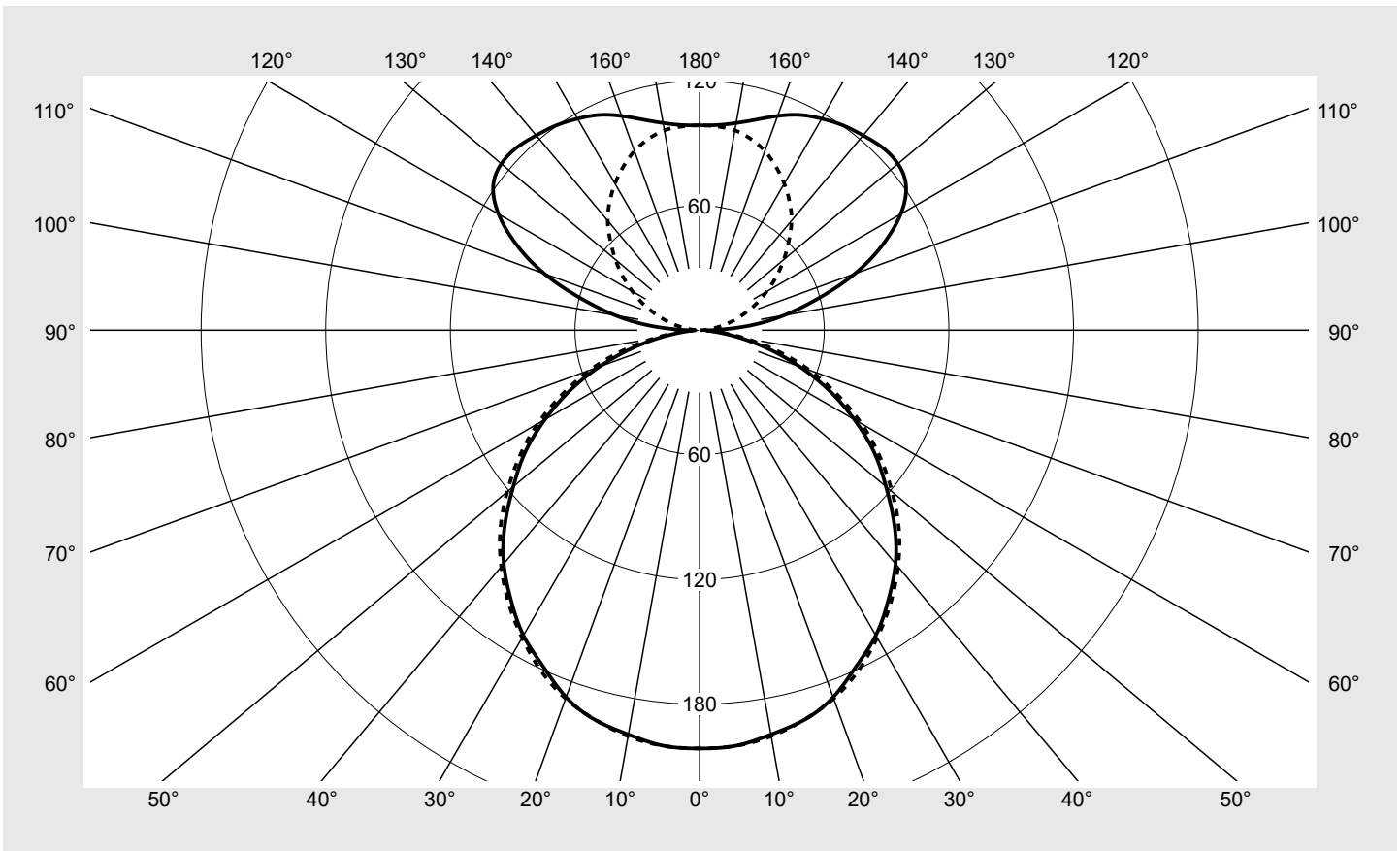
siteco

Lichtstärke in cd/klm

C180-0

C270-90

Imax: 201 cd/klm



## Klassifizierungen

DIN 5040 C 4 2  
CIE N1=47 N2=79 N3=96  
N4=57 N5=100

## Leuchtenbetriebswirkungsgrade

$\eta_{LB}$  100,0%  
 $\phi_u$  57,0%  
 $\phi_o$  43,0%

## Messbedingungen

DIN EN 13032 und DIN 5032

## Lichttechnischer Prüfbefund

|  |   |                                     |
|--|---|-------------------------------------|
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| <b>Wertetabelle Lichtstärkemessung</b> |   | <b>Maximale Lichtstärke</b>         |
|  |   | <b>siteco</b>                       |

| C-<br>Ebenen          | 0°<br>180° | 15°                  | 30°                  | 45°                  | 60°                  | 75°                  | 90°<br>270° | Phi-Zone             | Summe<br>Phi-Zone |
|-----------------------|------------|----------------------|----------------------|----------------------|----------------------|----------------------|-------------|----------------------|-------------------|
|                       |            | 165°<br>195°<br>345° | 150°<br>210°<br>330° | 135°<br>225°<br>315° | 120°<br>240°<br>300° | 105°<br>255°<br>285° |             |                      |                   |
| Lichtstärke in cd/klm |            |                      |                      |                      |                      |                      |             | Lichtstrom in lm/klm |                   |
| γ                     |            |                      |                      |                      |                      |                      |             |                      |                   |
| 0°                    | 201.3      | 201.3                | 201.3                | 201.3                | 201.3                | 201.3                | 201.3       | 1.2                  | 1.2               |
| 5°                    | 200.8      | 201.1                | 200.5                | 200.6                | 200.7                | 201.0                | 200.8       | 9.6                  | 10.8              |
| 10°                   | 197.6      | 197.2                | 197.1                | 197.6                | 198.5                | 197.9                | 198.4       | 18.8                 | 29.6              |
| 15°                   | 194.2      | 193.6                | 192.5                | 193.4                | 194.0                | 194.3                | 194.2       | 27.5                 | 57.1              |
| 20°                   | 188.0      | 187.6                | 186.2                | 187.1                | 187.3                | 187.7                | 188.7       | 35.1                 | 92.2              |
| 25°                   | 178.4      | 178.6                | 177.9                | 178.8                | 179.9                | 179.8                | 180.8       | 41.5                 | 133.7             |
| 30°                   | 169.6      | 169.4                | 168.2                | 169.6                | 170.9                | 170.8                | 170.9       | 46.6                 | 180.3             |
| 35°                   | 158.4      | 158.6                | 157.6                | 158.2                | 158.8                | 159.6                | 160.3       | 49.9                 | 230.1             |
| 40°                   | 146.7      | 146.4                | 146.5                | 146.2                | 147.1                | 147.3                | 148.6       | 51.7                 | 281.9             |
| 45°                   | 132.6      | 132.7                | 133.0                | 133.0                | 133.6                | 133.9                | 135.7       | 51.7                 | 333.6             |
| 50°                   | 117.1      | 118.0                | 118.4                | 118.9                | 120.0                | 120.2                | 120.9       | 50.0                 | 383.6             |
| 55°                   | 102.6      | 102.7                | 103.4                | 103.9                | 104.8                | 104.8                | 105.8       | 46.7                 | 430.3             |
| 60°                   | 86.0       | 86.4                 | 86.9                 | 87.2                 | 88.6                 | 88.7                 | 90.0        | 41.6                 | 471.9             |
| 65°                   | 69.1       | 69.7                 | 70.6                 | 71.5                 | 72.2                 | 72.9                 | 72.9        | 35.4                 | 507.3             |
| 70°                   | 51.3       | 52.3                 | 52.8                 | 54.1                 | 55.2                 | 55.9                 | 56.2        | 27.8                 | 535.1             |
| 75°                   | 33.8       | 34.6                 | 35.2                 | 36.4                 | 37.6                 | 38.6                 | 38.9        | 19.3                 | 554.4             |
| 80°                   | 17.8       | 18.1                 | 18.7                 | 19.5                 | 20.7                 | 21.6                 | 21.9        | 10.7                 | 565.1             |
| 85°                   | 5.8        | 6.0                  | 6.3                  | 6.7                  | 7.3                  | 8.0                  | 8.2         | 3.8                  | 568.8             |
| 90°                   | 5.3        | 5.2                  | 5.5                  | 5.5                  | 3.6                  | 1.7                  | 1.1         | 2.3                  | 571.1             |
| 95°                   | 23.1       | 23.6                 | 25.3                 | 23.9                 | 15.3                 | 7.9                  | 4.1         | 10.0                 | 581.1             |
| 100°                  | 41.3       | 42.4                 | 42.7                 | 37.4                 | 25.1                 | 14.2                 | 9.3         | 16.8                 | 597.9             |
| 105°                  | 59.2       | 60.4                 | 59.2                 | 50.6                 | 34.6                 | 21.4                 | 15.7        | 23.3                 | 621.2             |
| 110°                  | 79.5       | 79.8                 | 74.8                 | 62.3                 | 44.4                 | 29.0                 | 22.5        | 29.3                 | 650.4             |
| 115°                  | 97.2       | 96.3                 | 88.8                 | 73.1                 | 53.8                 | 36.6                 | 30.0        | 34.1                 | 684.6             |
| 120°                  | 111.8      | 110.0                | 100.3                | 81.8                 | 62.6                 | 44.0                 | 37.3        | 37.4                 | 722.0             |
| 125°                  | 121.3      | 118.0                | 107.2                | 89.8                 | 70.0                 | 51.0                 | 45.1        | 38.9                 | 760.9             |
| 130°                  | 124.6      | 121.9                | 110.5                | 94.5                 | 75.7                 | 58.3                 | 52.9        | 38.5                 | 799.3             |
| 135°                  | 124.4      | 121.9                | 111.7                | 97.7                 | 80.2                 | 65.0                 | 60.7        | 36.8                 | 836.1             |
| 140°                  | 122.4      | 120.5                | 112.1                | 100.0                | 84.0                 | 71.4                 | 68.8        | 34.3                 | 870.4             |
| 145°                  | 120.4      | 119.1                | 112.0                | 101.3                | 87.5                 | 77.3                 | 75.5        | 31.2                 | 901.5             |
| 150°                  | 117.6      | 117.1                | 110.8                | 101.2                | 90.4                 | 83.0                 | 81.5        | 27.5                 | 929.0             |
| 155°                  | 114.3      | 114.0                | 108.0                | 100.7                | 92.6                 | 88.1                 | 86.9        | 23.3                 | 952.4             |
| 160°                  | 109.8      | 109.5                | 104.7                | 99.9                 | 94.6                 | 92.0                 | 91.8        | 18.8                 | 971.2             |
| 165°                  | 104.9      | 104.4                | 101.9                | 98.7                 | 96.5                 | 95.2                 | 95.3        | 14.1                 | 985.3             |
| 170°                  | 101.3      | 100.8                | 100.1                | 98.8                 | 97.8                 | 97.7                 | 97.7        | 9.4                  | 994.7             |
| 175°                  | 99.2       | 99.0                 | 98.5                 | 98.3                 | 98.4                 | 98.4                 | 98.4        | 4.7                  | 999.4             |
| 180°                  | 98.6       | 98.6                 | 98.6                 | 98.6                 | 98.6                 | 98.6                 | 98.6        | 0.6                  | 1000.0            |

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|                              |   |                              |
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|------------------------------|---|------------------------------|

| UGR-Tabelle     |     | Standardraum                        |      |      |      |      |                                       |      |      |      |      |
|-----------------|-----|-------------------------------------|------|------|------|------|---------------------------------------|------|------|------|------|
|                 |     | Blickrichtung quer zur Leuchte (C0) |      |      |      |      | Blickrichtung längs zur Leuchte (C90) |      |      |      |      |
| Raumabmessungen |     |                                     |      |      |      |      |                                       |      |      |      |      |
| x               | y   |                                     |      |      |      |      |                                       |      |      |      |      |
| 2H              | 2H  | 18,5                                | 19,5 | 19,3 | 20,4 | 21,5 | 18,7                                  | 19,7 | 19,5 | 20,5 | 21,6 |
|                 | 3H  | 19,9                                | 20,8 | 20,7 | 21,7 | 22,8 | 20,2                                  | 21,1 | 21,0 | 22,0 | 23,1 |
|                 | 4H  | 20,4                                | 21,2 | 21,2 | 22,1 | 23,2 | 20,8                                  | 21,6 | 21,6 | 22,5 | 23,6 |
|                 | 6H  | 20,6                                | 21,4 | 21,5 | 22,3 | 23,4 | 21,1                                  | 21,9 | 22,0 | 22,8 | 24,0 |
|                 | 8H  | 20,6                                | 21,3 | 21,5 | 22,3 | 23,4 | 21,1                                  | 21,8 | 22,0 | 22,8 | 23,9 |
|                 | 12H | 20,6                                | 21,2 | 21,5 | 22,2 | 23,4 | 21,2                                  | 21,8 | 22,1 | 22,8 | 24,0 |
| 4H              | 2H  | 19,1                                | 20,0 | 20,0 | 20,8 | 22,0 | 19,2                                  | 20,0 | 20,0 | 20,9 | 22,0 |
|                 | 3H  | 20,7                                | 21,4 | 21,6 | 22,3 | 23,5 | 20,9                                  | 21,6 | 21,8 | 22,5 | 23,7 |
|                 | 4H  | 21,2                                | 21,9 | 22,2 | 22,8 | 24,0 | 21,6                                  | 22,2 | 22,5 | 23,2 | 24,3 |
|                 | 6H  | 21,6                                | 22,1 | 22,5 | 23,1 | 24,3 | 22,0                                  | 22,6 | 23,0 | 23,5 | 24,7 |
|                 | 8H  | 21,6                                | 22,1 | 22,6 | 23,1 | 24,3 | 22,1                                  | 22,7 | 23,1 | 23,6 | 24,8 |
|                 | 12H | 21,6                                | 22,0 | 22,6 | 23,0 | 24,3 | 22,2                                  | 22,6 | 23,1 | 23,6 | 24,8 |
| 8H              | 4H  | 21,4                                | 21,9 | 22,4 | 22,9 | 24,1 | 21,7                                  | 22,2 | 22,6 | 23,2 | 24,4 |
|                 | 6H  | 21,9                                | 22,3 | 22,8 | 23,3 | 24,5 | 22,3                                  | 22,7 | 23,2 | 23,6 | 24,9 |
|                 | 8H  | 22,0                                | 22,3 | 23,0 | 23,3 | 24,6 | 22,5                                  | 22,8 | 23,5 | 23,8 | 25,1 |
|                 | 12H | 22,0                                | 22,3 | 23,0 | 23,3 | 24,6 | 22,6                                  | 22,9 | 23,6 | 23,9 | 25,1 |
| 12H             | 4H  | 21,4                                | 21,8 | 22,3 | 22,8 | 24,0 | 21,6                                  | 22,1 | 22,6 | 23,0 | 24,3 |
|                 | 6H  | 21,9                                | 22,2 | 22,8 | 23,2 | 24,5 | 22,3                                  | 22,6 | 23,2 | 23,6 | 24,9 |
|                 | 8H  | 22,0                                | 22,3 | 23,0 | 23,3 | 24,6 | 22,5                                  | 22,8 | 23,5 | 23,8 | 25,1 |

## Leuchtdichten-Tabelle Max. für $\gamma \geq 65^\circ$

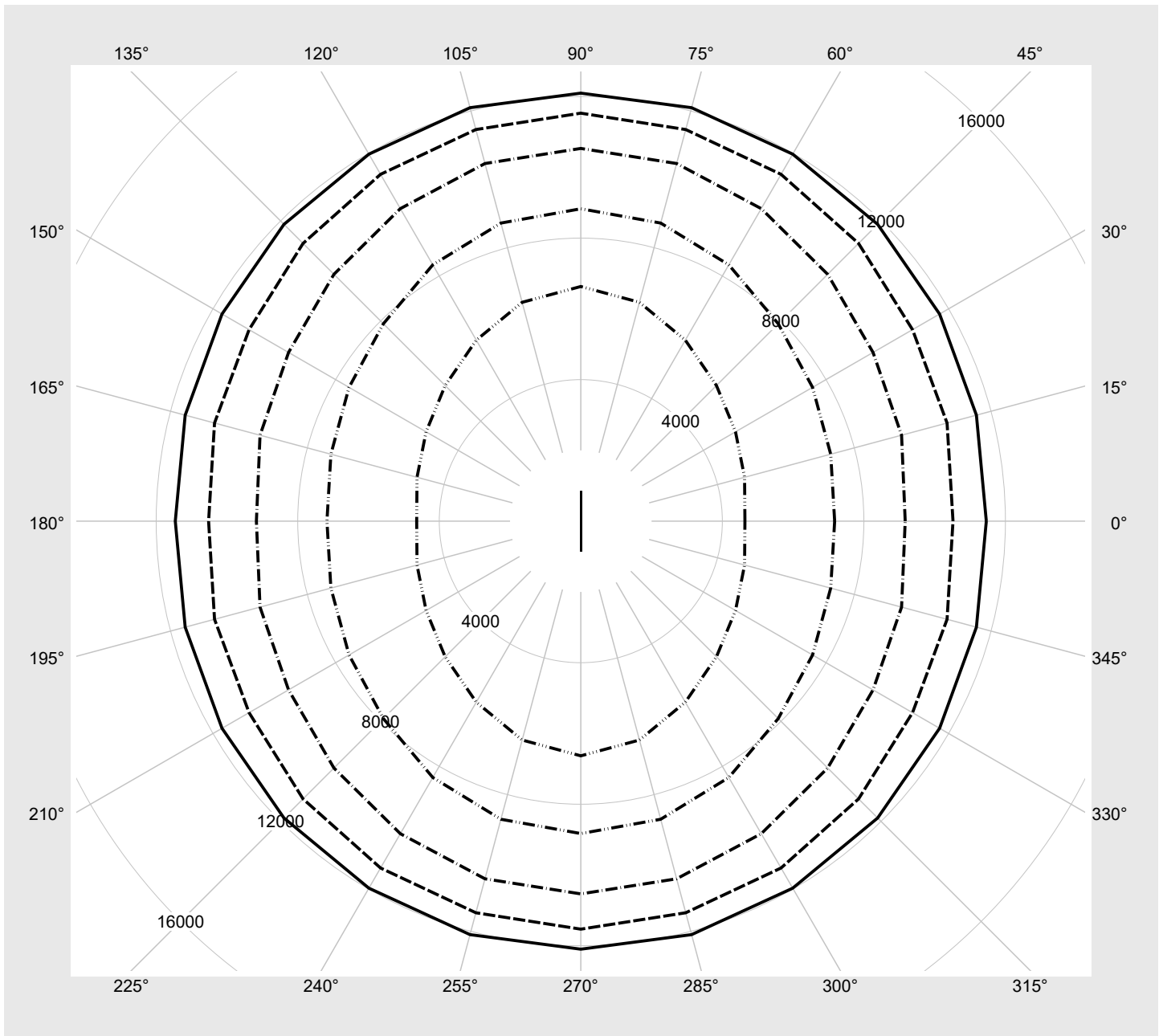
Lichttechnische Abmessungen in mm: **L = 1500**  
**B = 50**

| C-<br>Ebenen | $\gamma$ | Leuchtdichte in cd/m <sup>2</sup> |                             |                             |                             |                             |                             |             |
|--------------|----------|-----------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-------------|
|              |          | 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° |
| 45°          |          | 13156.1                           | 13164.1                     | 13188.9                     | 13190.6                     | 13249.1                     | 13284.1                     | 13460.3     |
| 50°          |          | 12780.6                           | 12877.8                     | 12914.4                     | 12969.0                     | 13089.2                     | 13112.0                     | 13193.9     |
| 55°          |          | 12549.0                           | 12562.9                     | 12638.5                     | 12701.4                     | 12818.4                     | 12819.4                     | 12936.6     |
| 60°          |          | 12066.4                           | 12114.6                     | 12184.8                     | 12232.9                     | 12427.8                     | 12444.3                     | 12617.4     |
| 65°          |          | 11460.1                           | 11574.8                     | 11708.2                     | 11863.9                     | 11977.2                     | 12097.6                     | 12096.9     |
| 70°          |          | 10518.8                           | 10716.2                     | 10825.3                     | 11101.1                     | 11318.7                     | 11458.1                     | 11530.9     |
| 75°          |          | 9167.9                            | 9384.9                      | 9536.9                      | 9866.7                      | 10199.5                     | 10464.2                     | 10534.1     |
| 80°          |          | 7174.2                            | 7311.5                      | 7563.1                      | 7890.6                      | 8365.6                      | 8722.2                      | 8828.9      |
| 85°          |          | 4638.2                            | 4791.9                      | 5048.6                      | 5421.2                      | 5907.2                      | 6403.7                      | 6632.3      |

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|                                     |   |                                     |
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|-------------------------------------|---|-------------------------------------|

Leuchtdichten in cd/m<sup>2</sup>      γ 65°    γ 70°    γ 75°    γ 80°    γ 85°      **siteco**



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|                                     |   |                                     |
|-------------------------------------|---|-------------------------------------|
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|-------------------------------------|---|-------------------------------------|

|                           |                           |               |
|---------------------------|---------------------------|---------------|
| <b>Dimmstufen-Tabelle</b> | Umgebungstemperatur: 25°C | <b>sITeco</b> |
|---------------------------|---------------------------|---------------|

| Lichtstrom [%] | Dimmstufe linear | Dimmstufe logarithmisch | Lichtstrom [lm] | Systemleistung [W] |
|----------------|------------------|-------------------------|-----------------|--------------------|
| 100            | 254              | 254                     | 5260            | 34.1               |
| 95             | 241              | 252                     | 4999            | 32.4               |
| 90             | 228              | 250                     | 4737            | 30.6               |
| 85             | 215              | 248                     | 4474            | 29.0               |
| 80             | 202              | 246                     | 4210            | 27.5               |
| 75             | 189              | 243                     | 3945            | 25.8               |
| 70             | 176              | 241                     | 3679            | 24.2               |
| 65             | 163              | 238                     | 3412            | 22.6               |
| 60             | 151              | 235                     | 3165            | 21.1               |
| 55             | 138              | 232                     | 2896            | 19.4               |
| 50             | 125              | 228                     | 2626            | 17.7               |
| 45             | 113              | 224                     | 2376            | 16.1               |
| 40             | 100              | 220                     | 2101            | 14.4               |
| 35             | 88               | 215                     | 1850            | 12.7               |
| 30             | 75               | 209                     | 1577            | 11.0               |
| 25             | 63               | 203                     | 1324            | 9.5                |
| 20             | 50               | 194                     | 1048            | 7.8                |
| 15             | 38               | 184                     | 794             | 6.2                |
| 10             | 25               | 169                     | 517             | 4.3                |
| 5              | 13               | 145                     | 261             | 2.5                |
| 3              | 8                | 127                     | 154             | 1.6                |