

## Lichttechnischer Prüfbefund

Familie  
Round 21 M

Bestell-Nr.: 51MR36GM8321S  
EAN: 4058352881699

LP-Nummer  
59513\_6



**Ausführung** Pendelleuchte, Abdeckung, opal, PMMA, symmetrisch, extrem breit strahlend, direkt-/indirekt strahlend, Gehäuse, Alu, silber

**Bestückung** LED 3000 K | CRI ≥ 80

**Betriebsgerät** EVG-Multilumen

**Bemessungswerte** Nettolichtstrom = 7820 lm  
Systemleistung = 60.8 W  
Lichtausbeute = 128.6 lm/W

Seriendokumentation  
08.11.2023

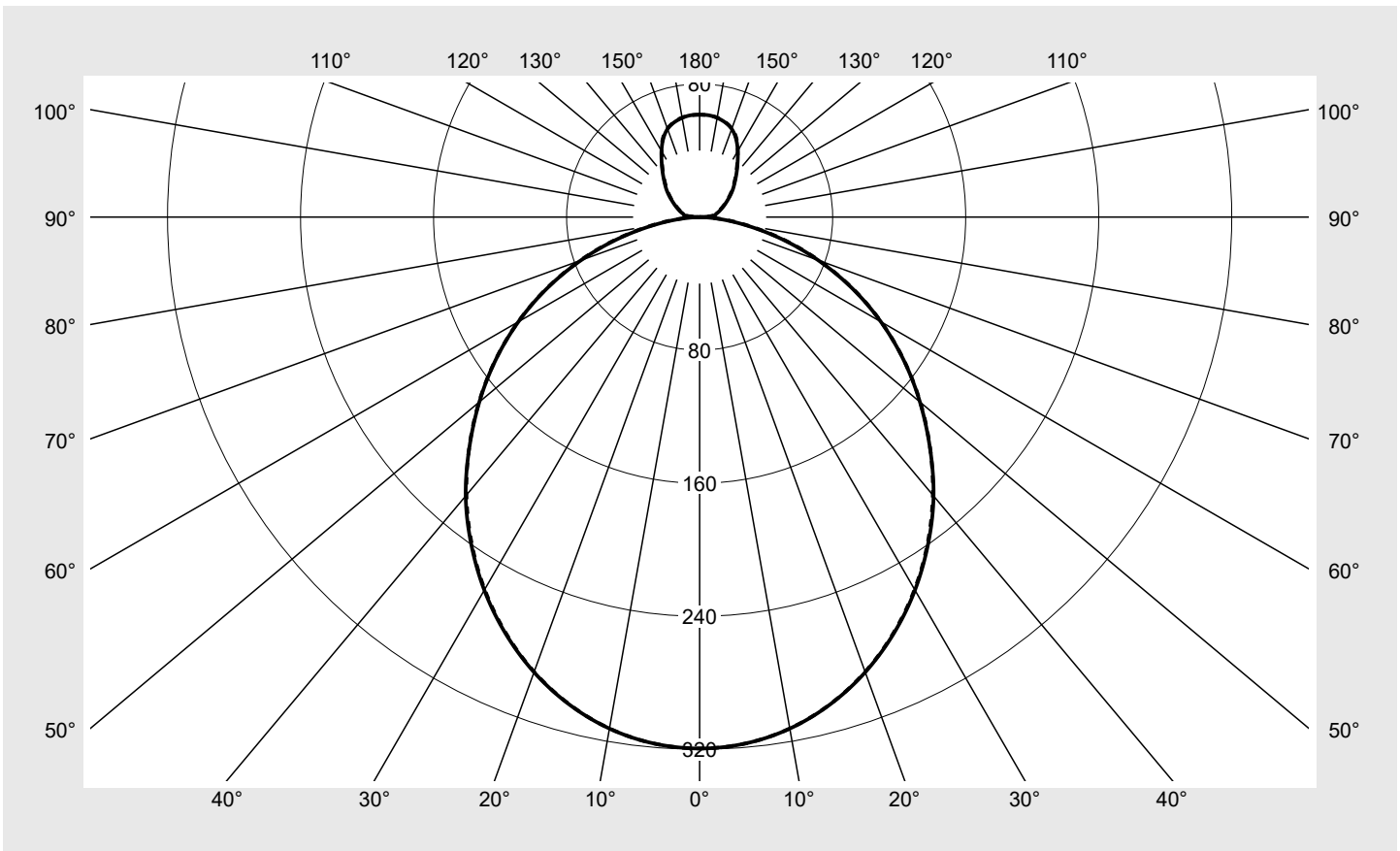
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Lichtstärke in cd/klm

C180-0

C270-90

Imax: 320 cd/klm



## Klassifizierungen

DIN 5040 B 4 3  
CIE N1=49 N2=80 N3=96  
N4=85 N5=100

## Leuchtenbetriebswirkungsgrade

$\eta_{LB}$  100,0%  
 $\phi_u$  85,0%  
 $\phi_o$  15,0%

## 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    |          |
|-----------------------|------------|----------------------|----------------------|----------------------|----------------------|----------------------|-------------|----------------------|----------|----------|
|                       |            | 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° |             |                      | Phi-Zone | Phi-Zone |
| γ                     |            |                      |                      |                      |                      |                      |             |                      |          |          |
| Lichtstärke in cd/klm |            |                      |                      |                      |                      |                      |             | Lichtstrom in lm/klm |          |          |
| 0°                    | 319.5      | 319.5                | 319.5                | 319.5                | 319.5                | 319.5                | 319.5       | 1.9                  | 1.9      |          |
| 5°                    | 317.7      | 317.8                | 317.8                | 317.7                | 317.7                | 317.7                | 317.7       | 15.2                 | 17.1     |          |
| 10°                   | 312.3      | 312.3                | 312.3                | 312.2                | 312.2                | 312.2                | 312.2       | 29.7                 | 46.8     |          |
| 15°                   | 303.3      | 303.5                | 303.4                | 303.3                | 303.3                | 303.3                | 303.2       | 43.0                 | 89.8     |          |
| 20°                   | 291.2      | 291.3                | 291.2                | 291.2                | 291.0                | 291.0                | 291.0       | 54.6                 | 144.4    |          |
| 25°                   | 276.2      | 276.6                | 276.2                | 276.3                | 275.9                | 276.0                | 275.9       | 64.0                 | 208.4    |          |
| 30°                   | 259.0      | 259.3                | 259.0                | 258.9                | 258.6                | 258.6                | 258.5       | 70.9                 | 279.4    |          |
| 35°                   | 239.6      | 240.1                | 239.7                | 239.7                | 239.3                | 239.3                | 239.1       | 75.3                 | 354.7    |          |
| 40°                   | 218.9      | 219.3                | 218.8                | 219.0                | 218.3                | 218.8                | 218.1       | 77.1                 | 431.8    |          |
| 45°                   | 195.8      | 197.7                | 196.8                | 197.2                | 196.3                | 196.9                | 196.0       | 76.3                 | 508.0    |          |
| 50°                   | 172.9      | 174.9                | 174.1                | 174.4                | 173.6                | 174.1                | 173.3       | 73.1                 | 581.1    |          |
| 55°                   | 149.7      | 151.6                | 150.7                | 151.3                | 150.2                | 150.8                | 150.0       | 67.7                 | 648.8    |          |
| 60°                   | 125.8      | 127.7                | 126.8                | 127.4                | 126.3                | 126.7                | 126.1       | 60.2                 | 709.0    |          |
| 65°                   | 101.1      | 103.0                | 102.1                | 102.9                | 101.7                | 102.5                | 101.5       | 50.8                 | 759.8    |          |
| 70°                   | 75.9       | 78.1                 | 77.0                 | 77.8                 | 76.7                 | 77.7                 | 76.5        | 39.8                 | 799.6    |          |
| 75°                   | 51.2       | 53.2                 | 52.4                 | 53.1                 | 52.2                 | 53.0                 | 52.1        | 27.8                 | 827.4    |          |
| 80°                   | 28.4       | 30.2                 | 29.8                 | 30.3                 | 29.8                 | 30.0                 | 29.7        | 16.1                 | 843.5    |          |
| 85°                   | 10.5       | 12.5                 | 12.3                 | 12.9                 | 12.5                 | 12.4                 | 12.2        | 6.7                  | 850.3    |          |
| 90°                   | 0.0        | 0.0                  | 0.0                  | 0.0                  | 0.0                  | 0.0                  | 0.0         | 0.0                  | 850.3    |          |
| 95°                   | 7.6        | 7.9                  | 7.6                  | 7.8                  | 7.5                  | 7.5                  | 7.0         | 4.2                  | 854.4    |          |
| 100°                  | 9.9        | 10.0                 | 10.0                 | 10.0                 | 9.8                  | 9.8                  | 9.4         | 5.3                  | 859.7    |          |
| 105°                  | 11.7       | 11.8                 | 11.8                 | 11.8                 | 11.7                 | 11.7                 | 11.2        | 6.2                  | 865.9    |          |
| 110°                  | 13.7       | 13.9                 | 13.9                 | 13.9                 | 13.9                 | 13.7                 | 13.2        | 7.1                  | 873.1    |          |
| 115°                  | 16.1       | 16.4                 | 16.4                 | 16.4                 | 16.2                 | 16.1                 | 15.7        | 8.1                  | 881.1    |          |
| 120°                  | 18.9       | 19.1                 | 19.2                 | 19.4                 | 19.0                 | 18.9                 | 18.6        | 9.0                  | 890.2    |          |
| 125°                  | 22.3       | 22.4                 | 22.3                 | 22.6                 | 22.2                 | 22.1                 | 21.9        | 10.0                 | 900.2    |          |
| 130°                  | 26.1       | 26.1                 | 26.0                 | 26.2                 | 25.8                 | 25.9                 | 25.5        | 10.9                 | 911.1    |          |
| 135°                  | 30.0       | 30.1                 | 30.1                 | 30.1                 | 30.0                 | 30.0                 | 29.5        | 11.6                 | 922.7    |          |
| 140°                  | 34.5       | 34.5                 | 34.7                 | 34.6                 | 34.7                 | 34.6                 | 34.1        | 12.2                 | 934.9    |          |
| 145°                  | 39.8       | 39.6                 | 39.8                 | 39.8                 | 39.7                 | 39.7                 | 39.5        | 12.5                 | 947.4    |          |
| 150°                  | 45.9       | 45.3                 | 45.7                 | 45.5                 | 46.0                 | 45.9                 | 45.8        | 12.5                 | 959.9    |          |
| 155°                  | 51.8       | 51.9                 | 51.7                 | 52.5                 | 52.1                 | 52.4                 | 52.3        | 12.1                 | 972.0    |          |
| 160°                  | 56.4       | 56.5                 | 56.5                 | 56.6                 | 56.5                 | 56.5                 | 56.6        | 10.6                 | 982.6    |          |
| 165°                  | 59.0       | 59.0                 | 59.0                 | 59.0                 | 59.1                 | 59.1                 | 59.2        | 8.4                  | 990.9    |          |
| 170°                  | 60.6       | 60.5                 | 60.6                 | 60.6                 | 60.7                 | 60.7                 | 60.8        | 5.8                  | 996.7    |          |
| 175°                  | 61.5       | 61.3                 | 61.3                 | 61.4                 | 61.4                 | 61.4                 | 61.4        | 2.9                  | 999.6    |          |
| 180°                  | 61.5       | 61.5                 | 61.5                 | 61.5                 | 61.5                 | 61.5                 | 61.5        | 0.4                  | 1000.0   |          |

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

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

Lichttechnische Abmessungen in mm: D = 590

| C- 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°       |          | 7921.6                            | 7996.3                      | 7961.3                      | 7977.2                      | 7939.5                      | 7966.0                      | 7927.8      |  |
| 50°       |          | 7695.5                            | 7783.5                      | 7745.6                      | 7761.2                      | 7722.7                      | 7748.7                      | 7709.7      |  |
| 55°       |          | 7467.5                            | 7561.8                      | 7516.0                      | 7544.0                      | 7492.0                      | 7518.0                      | 7477.9      |  |
| 60°       |          | 7198.5                            | 7305.2                      | 7251.4                      | 7288.1                      | 7223.9                      | 7245.3                      | 7211.2      |  |
| 65°       |          | 6843.4                            | 6973.7                      | 6908.6                      | 6965.6                      | 6882.2                      | 6936.3                      | 6869.0      |  |
| 70°       |          | 6347.5                            | 6533.9                      | 6437.7                      | 6507.7                      | 6410.8                      | 6496.1                      | 6398.5      |  |
| 75°       |          | 5659.6                            | 5878.9                      | 5789.9                      | 5865.5                      | 5770.1                      | 5858.7                      | 5761.4      |  |
| 80°       |          | 4676.5                            | 4978.8                      | 4910.3                      | 4985.4                      | 4904.0                      | 4945.3                      | 4884.4      |  |
| 85°       |          | 3451.8                            | 4091.8                      | 4035.0                      | 4241.4                      | 4086.9                      | 4071.4                      | 4011.4      |  |

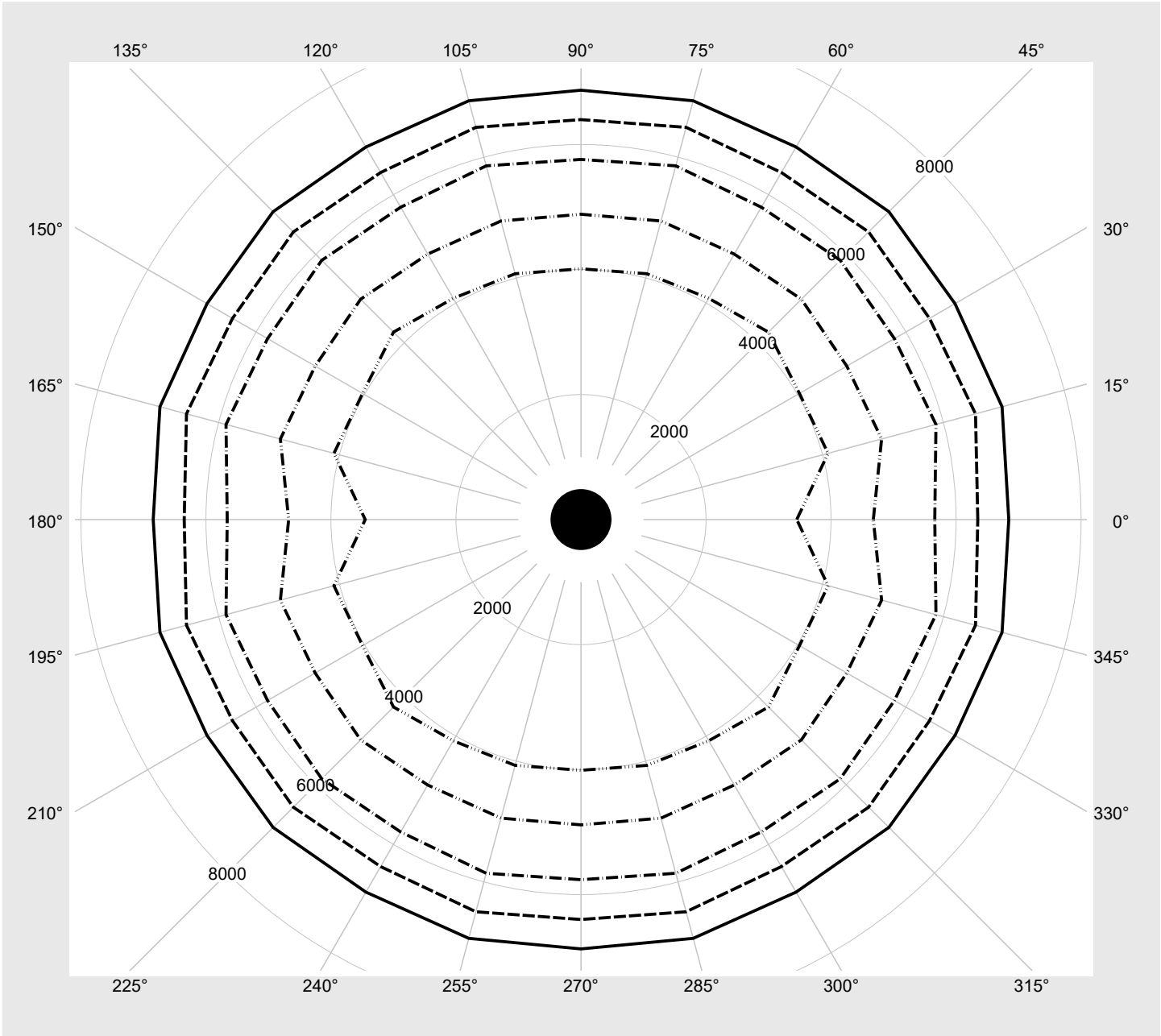
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|                                     |  |                                    |
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|-------------------------------------|--|------------------------------------|

**Leuchtdichten in cd/m<sup>2</sup>**

|              |              |              |              |              |
|--------------|--------------|--------------|--------------|--------------|
| $\gamma$ 65° | $\gamma$ 70° | $\gamma$ 75° | $\gamma$ 80° | $\gamma$ 85° |
|--------------|--------------|--------------|--------------|--------------|

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

| DIP-Stufe | Schalterstellung |     |     |     | Lichtstrom<br>[lm] | Systemleistung<br>[W] |
|-----------|------------------|-----|-----|-----|--------------------|-----------------------|
|           | 1                | 2   | 3   | 4   |                    |                       |
| 15        | ON               | ON  | ON  | ON  | 7820               | 60.8                  |
| 14        | ON               | ON  | ON  | OFF | 7550               | 58.5                  |
| 13        | ON               | ON  | OFF | ON  | 7270               | 56.2                  |
| 12        | ON               | ON  | OFF | OFF | 6990               | 54.1                  |
| 11        | ON               | OFF | ON  | ON  | 6780               | 51.9                  |
| 10        | ON               | OFF | ON  | OFF | 6500               | 49.6                  |
| 9         | ON               | OFF | OFF | ON  | 6210               | 47.4                  |
| 8         | ON               | OFF | OFF | OFF | 5930               | 45.1                  |
| 7         | OFF              | ON  | ON  | ON  | 5700               | 43.0                  |
| 6         | OFF              | ON  | ON  | OFF | 5410               | 40.8                  |
| 5         | OFF              | ON  | OFF | ON  | 5130               | 38.5                  |
| 4         | OFF              | ON  | OFF | OFF | 4840               | 36.3                  |
| 3         | OFF              | OFF | ON  | ON  | 4590               | 34.2                  |
| 2         | OFF              | OFF | ON  | OFF | 4310               | 32.0                  |
| 1         | OFF              | OFF | OFF | ON  | 4010               | 29.6                  |
| 0         | OFF              | OFF | OFF | OFF | 3720               | 27.7                  |