

Lichttechnischer Prüfbefund

**Familie**  
**Modario® 31**

**Bestell-Nr.: 53BM812CV6A5D2**  
**EAN: 4069025186034**

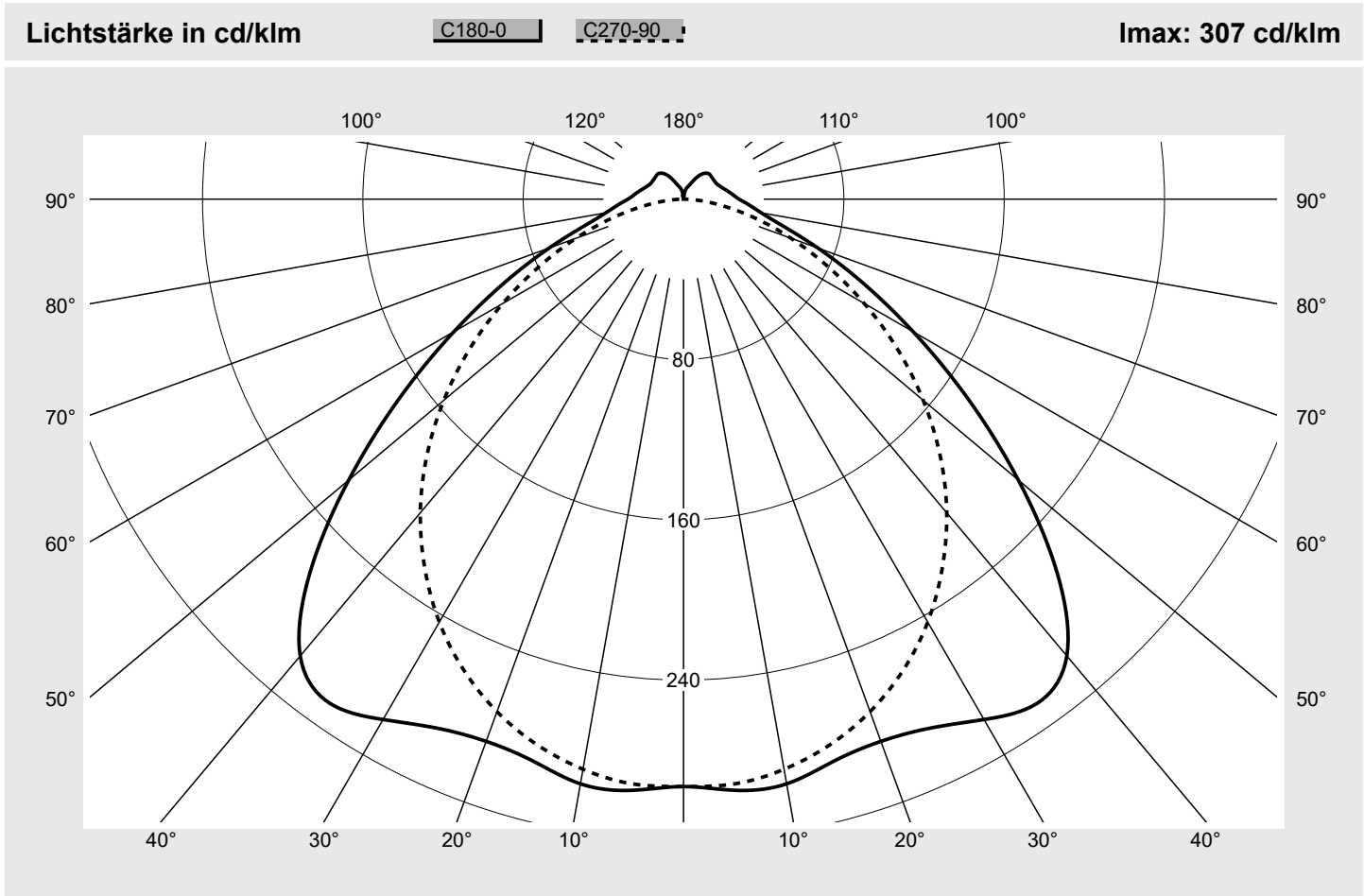
**LP-Nummer**  
**59594\_97**



**Ausführung** Diffusoroptik, satiniert, breit strahlend  
**Bestückung** LED 6500 K | CRI ≥ 80  
**Betriebsgerät** EVG-Multilumen CLOi  
**Bemessungswerte** Nettolichtstrom = 10550 lm  
Systemleistung = 56.5 W  
Lichtausbeute = 186.7 lm/W

**Seriendokumentation**  
**16.07.2024**

siteco



| Klassifizierungen |                   | Leuchtenbetriebswirkungsgrade |        |
|-------------------|-------------------|-------------------------------|--------|
| DIN 5040          | A 4 1             | ηLB                           | 100,0% |
| CIE               | N1=47 N2=80 N3=95 | φ <sub>u</sub>                | 92,6%  |
|                   | N4=93 N5=100      | φ <sub>o</sub>                | 7,4%   |

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

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|                                                                            |                                                                      |                                          |
|----------------------------------------------------------------------------|----------------------------------------------------------------------|------------------------------------------|
| <div>Familie</div> <div>Modario® 31</div>                                  | <div>Bestell-Nr.: 53BM812CV6A5D2</div> <div>EAN: 4069025186034</div> | <div>LP-Nummer</div> <div>59594_97</div> |
| <div>Wertetabelle Lichtstärkemessung</div> <div>Maximale Lichtstärke</div> |                                                                      | <div>siteco</div>                        |

| 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°           | 293.1                 | 293.1                       | 293.1                       | 293.1                       | 293.1                       | 293.1                       | 293.1       | 1.8                  | 1.8               |
| 5°           | 296.1                 | 295.6                       | 293.1                       | 293.6                       | 293.8                       | 293.0                       | 292.9       | 14.0                 | 15.8              |
| 10°          | 296.3                 | 296.3                       | 293.6                       | 293.6                       | 292.6                       | 289.9                       | 288.9       | 27.9                 | 43.7              |
| 15°          | 290.3                 | 290.9                       | 288.4                       | 289.1                       | 288.3                       | 284.2                       | 281.9       | 40.8                 | 84.5              |
| 20°          | 287.9                 | 288.2                       | 282.8                       | 281.1                       | 280.6                       | 275.9                       | 272.2       | 52.8                 | 137.3             |
| 25°          | 291.3                 | 290.8                       | 281.6                       | 274.0                       | 270.0                       | 264.7                       | 259.4       | 64.0                 | 201.2             |
| 30°          | 299.8                 | 298.4                       | 283.7                       | 269.7                       | 258.3                       | 250.5                       | 243.7       | 74.6                 | 275.8             |
| 35°          | 307.3                 | 306.0                       | 288.6                       | 266.7                       | 246.6                       | 233.7                       | 225.0       | 84.2                 | 360.1             |
| 40°          | 297.5                 | 299.0                       | 287.4                       | 263.1                       | 235.0                       | 215.2                       | 204.3       | 91.1                 | 451.1             |
| 45°          | 263.6                 | 268.2                       | 268.7                       | 253.4                       | 221.8                       | 194.2                       | 181.1       | 92.3                 | 543.4             |
| 50°          | 218.1                 | 223.5                       | 232.0                       | 231.1                       | 204.9                       | 171.7                       | 156.1       | 87.5                 | 630.9             |
| 55°          | 172.9                 | 177.3                       | 186.9                       | 195.4                       | 181.1                       | 147.5                       | 130.2       | 77.8                 | 708.7             |
| 60°          | 132.3                 | 135.3                       | 142.3                       | 152.9                       | 149.4                       | 121.4                       | 104.1       | 64.8                 | 773.5             |
| 65°          | 98.5                  | 100.2                       | 104.0                       | 112.2                       | 114.5                       | 94.5                        | 79.4        | 50.9                 | 824.4             |
| 70°          | 71.4                  | 72.6                        | 74.4                        | 79.3                        | 82.2                        | 69.0                        | 57.1        | 37.9                 | 862.3             |
| 75°          | 51.0                  | 51.6                        | 52.9                        | 55.5                        | 55.9                        | 46.4                        | 37.5        | 27.0                 | 889.4             |
| 80°          | 39.4                  | 39.1                        | 38.7                        | 38.1                        | 35.5                        | 27.5                        | 20.9        | 18.8                 | 908.2             |
| 85°          | 32.8                  | 32.1                        | 30.1                        | 26.5                        | 21.0                        | 13.7                        | 8.3         | 13.1                 | 921.3             |
| 90°          | 27.7                  | 27.1                        | 24.5                        | 19.3                        | 12.6                        | 5.6                         | 0.8         | 9.4                  | 930.7             |
| 95°          | 24.8                  | 24.4                        | 22.4                        | 17.8                        | 11.6                        | 5.3                         | 0.8         | 8.6                  | 939.3             |
| 100°         | 22.5                  | 22.2                        | 20.5                        | 16.7                        | 11.5                        | 5.5                         | 0.8         | 7.9                  | 947.2             |
| 105°         | 20.6                  | 20.3                        | 18.7                        | 16.0                        | 11.5                        | 5.9                         | 0.8         | 7.3                  | 954.6             |
| 110°         | 19.2                  | 18.7                        | 17.6                        | 15.5                        | 11.7                        | 6.3                         | 0.7         | 6.8                  | 961.4             |
| 115°         | 18.2                  | 17.8                        | 17.0                        | 15.3                        | 12.2                        | 5.8                         | 0.8         | 6.4                  | 967.8             |
| 120°         | 17.9                  | 17.4                        | 16.9                        | 15.5                        | 12.3                        | 5.3                         | 0.8         | 6.1                  | 973.9             |
| 125°         | 17.8                  | 17.4                        | 16.9                        | 15.5                        | 11.8                        | 5.2                         | 0.8         | 5.7                  | 979.6             |
| 130°         | 17.9                  | 17.4                        | 16.8                        | 15.0                        | 10.1                        | 5.0                         | 0.9         | 5.2                  | 984.7             |
| 135°         | 17.9                  | 17.3                        | 16.2                        | 13.6                        | 8.1                         | 4.3                         | 1.0         | 4.5                  | 989.2             |
| 140°         | 16.9                  | 16.0                        | 14.5                        | 11.2                        | 6.7                         | 3.5                         | 1.1         | 3.6                  | 992.8             |
| 145°         | 14.9                  | 14.0                        | 12.0                        | 8.5                         | 5.5                         | 2.8                         | 1.2         | 2.7                  | 995.4             |
| 150°         | 11.8                  | 10.8                        | 9.0                         | 6.5                         | 4.7                         | 2.2                         | 1.4         | 1.8                  | 997.3             |
| 155°         | 8.6                   | 8.1                         | 7.0                         | 5.2                         | 4.0                         | 1.7                         | 1.5         | 1.2                  | 998.5             |
| 160°         | 6.8                   | 6.5                         | 5.3                         | 4.3                         | 3.2                         | 1.5                         | 1.5         | 0.8                  | 999.2             |
| 165°         | 5.5                   | 5.3                         | 3.9                         | 3.4                         | 2.1                         | 1.6                         | 1.6         | 0.5                  | 999.7             |
| 170°         | 3.8                   | 3.1                         | 2.5                         | 2.0                         | 1.6                         | 1.6                         | 1.6         | 0.2                  | 999.9             |
| 175°         | 1.6                   | 1.6                         | 1.6                         | 1.6                         | 1.6                         | 1.6                         | 1.6         | 0.1                  | 1000.0            |
| 180°         | 1.6                   | 1.6                         | 1.6                         | 1.6                         | 1.6                         | 1.6                         | 1.6         | 0.0                  | 1000.0            |

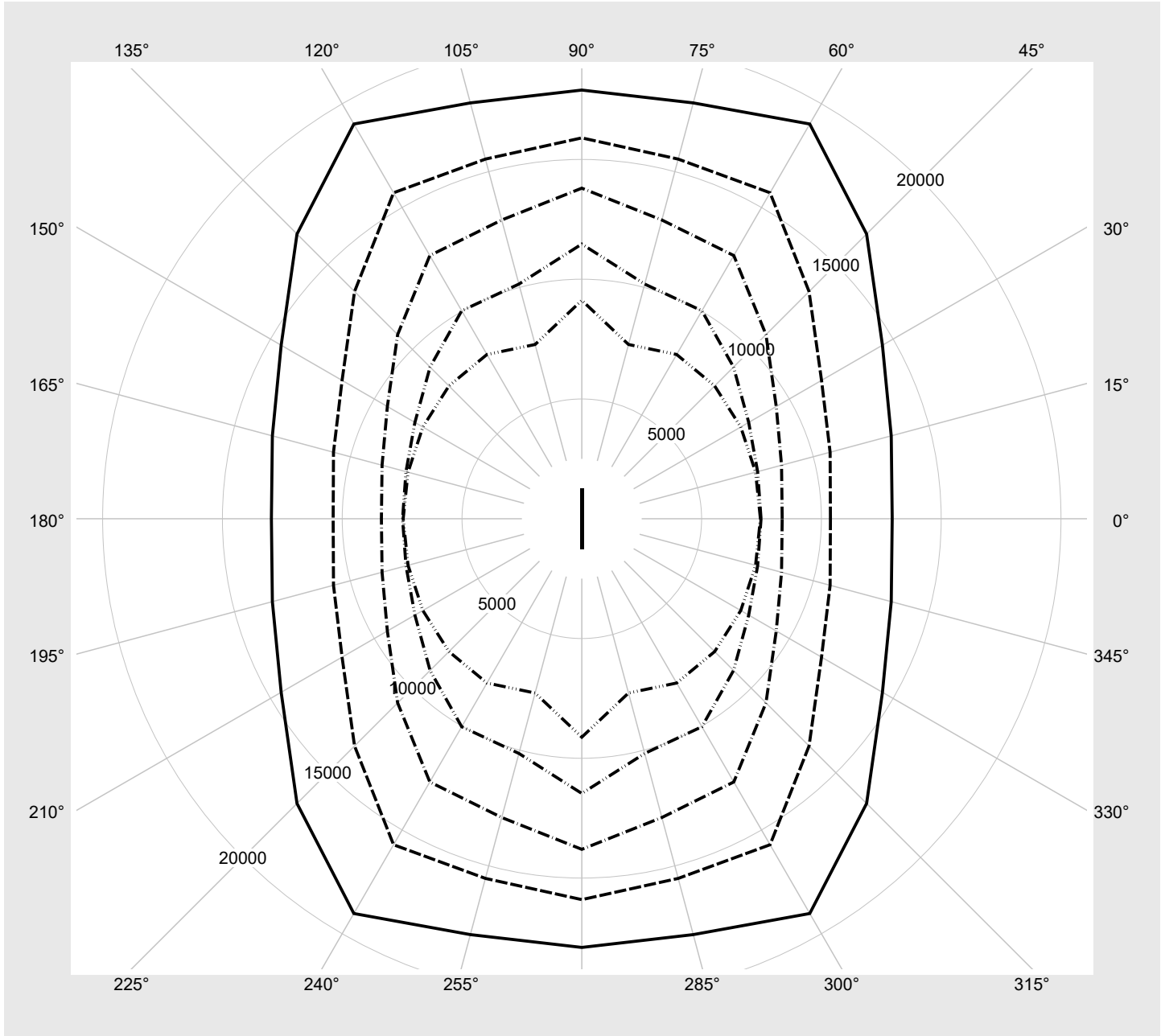
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|                        |     |                                     |                                                   |      |      |      |                                       |      |                       |      |      |
|------------------------|-----|-------------------------------------|---------------------------------------------------|------|------|------|---------------------------------------|------|-----------------------|------|------|
| Familie<br>Modario® 31 |     |                                     | Bestell-Nr.: 53BM812CV6A5D2<br>EAN: 4069025186034 |      |      |      |                                       |      | LP-Nummer<br>59594_97 |      |      |
| 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  | 23,1                                | 24,8                                              | 23,4 | 25,1 | 25,4 | 22,9                                  | 24,6 | 23,2                  | 24,9 | 25,2 |
|                        | 3H  | 23,9                                | 25,5                                              | 24,3 | 25,8 | 26,1 | 24,0                                  | 25,5 | 24,4                  | 25,9 | 26,2 |
|                        | 4H  | 24,3                                | 25,7                                              | 24,6 | 26,0 | 26,4 | 24,4                                  | 25,8 | 24,8                  | 26,2 | 26,5 |
|                        | 6H  | 24,5                                | 25,9                                              | 25,0 | 26,2 | 26,6 | 24,6                                  | 26,0 | 25,0                  | 26,3 | 26,7 |
|                        | 8H  | 24,7                                | 26,0                                              | 25,1 | 26,3 | 26,7 | 24,7                                  | 26,0 | 25,1                  | 26,4 | 26,8 |
|                        | 12H | 24,9                                | 26,0                                              | 25,3 | 26,4 | 26,8 | 24,8                                  | 26,0 | 25,2                  | 26,4 | 26,8 |
| 4H                     | 2H  | 23,7                                | 25,2                                              | 24,1 | 25,5 | 25,9 | 23,6                                  | 25,0 | 24,0                  | 25,4 | 25,8 |
|                        | 3H  | 24,7                                | 25,9                                              | 25,1 | 26,3 | 26,7 | 24,9                                  | 26,2 | 25,4                  | 26,5 | 27,0 |
|                        | 4H  | 25,1                                | 26,2                                              | 25,6 | 26,6 | 27,1 | 25,4                                  | 26,6 | 25,9                  | 27,0 | 27,4 |
|                        | 6H  | 25,5                                | 26,5                                              | 26,0 | 26,9 | 27,4 | 25,8                                  | 26,8 | 26,3                  | 27,2 | 27,7 |
|                        | 8H  | 25,7                                | 26,6                                              | 26,2 | 27,1 | 27,5 | 25,9                                  | 26,8 | 26,4                  | 27,2 | 27,7 |
|                        | 12H | 26,0                                | 26,8                                              | 26,5 | 27,2 | 27,7 | 26,0                                  | 26,8 | 26,5                  | 27,2 | 27,7 |
| 8H                     | 4H  | 25,4                                | 26,3                                              | 25,9 | 26,7 | 27,2 | 25,7                                  | 26,6 | 26,2                  | 27,0 | 27,5 |
|                        | 6H  | 25,9                                | 26,6                                              | 26,4 | 27,1 | 27,6 | 26,2                                  | 26,9 | 26,7                  | 27,4 | 27,9 |
|                        | 8H  | 26,2                                | 26,8                                              | 26,7 | 27,3 | 27,8 | 26,3                                  | 27,0 | 26,8                  | 27,5 | 28,0 |
|                        | 12H | 26,5                                | 27,1                                              | 27,0 | 27,6 | 28,1 | 26,5                                  | 27,0 | 27,0                  | 27,5 | 28,1 |
| 12H                    | 4H  | 25,4                                | 26,2                                              | 25,9 | 26,7 | 27,2 | 25,7                                  | 26,5 | 26,2                  | 27,0 | 27,5 |
|                        | 6H  | 26,0                                | 26,6                                              | 26,5 | 27,1 | 27,6 | 26,3                                  | 26,9 | 26,8                  | 27,4 | 27,9 |
|                        | 8H  | 26,3                                | 26,9                                              | 26,8 | 27,4 | 27,9 | 26,5                                  | 27,0 | 27,0                  | 27,5 | 28,1 |

|                       |   |                   |                             |                                       |                             |                             |                             |                             |
|-----------------------|---|-------------------|-----------------------------|---------------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Leuchtdichten-Tabelle |   | Max. für γ >= 65° |                             | Lichttechnische<br>Abmessungen in mm: |                             | L = 1476<br>B = 75          | H(C0) = 25<br>H(C90) = 0    | H(C180) = 25<br>H(C270) = 0 |
| C-<br>Ebenen          | γ | 0°<br>180°        | 15°<br>165°<br>195°<br>345° | 30°<br>150°<br>210°<br>330°           | 45°<br>135°<br>225°<br>315° | 60°<br>120°<br>240°<br>300° | 75°<br>105°<br>255°<br>285° | 90°<br>270°                 |
|                       |   |                   | Leuchtdichte in cd/m²       |                                       |                             |                             |                             |                             |
| 45°                   |   | 26648.2           | 27347.6                     | 28103.3                               | 27637.1                     | 25627.3                     | 24097.2                     | 24411.3                     |
| 50°                   |   | 23141.6           | 23945.2                     | 25592.8                               | 26745.7                     | 25339.1                     | 23087.4                     | 23144.7                     |
| 55°                   |   | 19460.2           | 20175.1                     | 21987.1                               | 24294.5                     | 24299.0                     | 21823.9                     | 21640.5                     |
| 60°                   |   | 15987.5           | 16550.6                     | 18077.0                               | 20694.2                     | 22094.6                     | 20125.5                     | 19851.0                     |
| 65°                   |   | 12956.3           | 13371.1                     | 14489.4                               | 16810.9                     | 19029.6                     | 17973.6                     | 17897.0                     |
| 70°                   |   | 10377.8           | 10729.8                     | 11553.9                               | 13414.4                     | 15714.8                     | 15544.8                     | 15900.4                     |
| 75°                   |   | 8364.2            | 8630.9                      | 9371.5                                | 10871.2                     | 12688.3                     | 12912.5                     | 13800.9                     |
| 80°                   |   | 7481.3            | 7597.3                      | 8043.8                                | 8957.0                      | 10026.2                     | 10143.1                     | 11467.7                     |
| 85°                   |   | 7455.4            | 7508.9                      | 7661.4                                | 7842.4                      | 7918.2                      | 7531.7                      | 9118.5                      |

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|                                                                                                                                 |                                                                 |                                     |               |
|---------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|-------------------------------------|---------------|
| <b>Familie</b><br><b>Modario® 31</b>                                                                                            | <b>Bestell-Nr.: 53BM812CV6A5D2</b><br><b>EAN: 4069025186034</b> | <b>LP-Nummer</b><br><b>59594_97</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> |                                                                 |                                     | <b>siteco</b> |



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|                        |                                                   |                       |
|------------------------|---------------------------------------------------|-----------------------|
| Familie<br>Modario® 31 | Bestell-Nr.: 53BM812CV6A5D2<br>EAN: 4069025186034 | LP-Nummer<br>59594_97 |
| Multilumen-Tabelle     | Umgebungstemperatur: 25°C                         | siteco                |

| DIP-Stufe | Schalterstellung |   |   | Lichtstrom<br>[lm] | Systemleistung<br>[W] | Systemleistung [W]<br>Lebensdauerende | Systemleistung [W]<br>Durchschnitt |
|-----------|------------------|---|---|--------------------|-----------------------|---------------------------------------|------------------------------------|
|           | 1                | 2 | 3 |                    |                       |                                       |                                    |
| 1         | A                | C | E | 10550              | 56.5                  | 67.6                                  | 62.0                               |
| 2         | A                | C | F | 10090              | 53.9                  | 64.2                                  | 59.0                               |
| 3         | A                | D | E | 9100               | 48.4                  | 57.7                                  | 53.0                               |
| 4         | A                | D | F | 8010               | 42.4                  | 50.5                                  | 46.4                               |
| 5         | B                | C | E | 7000               | 37.1                  | 43.8                                  | 40.4                               |
| 6         | B                | C | F | 5970               | 31.7                  | 37.1                                  | 34.4                               |
| 7         | B                | D | E | 5020               | 26.7                  | 31.3                                  | 29.0                               |
| 8         | B                | D | F | 4050               | 21.8                  | 25.5                                  | 23.6                               |