

## Lichttechnischer Prüfbefund

**Familie**  
**Batten 41**

**Bestell-Nr.: 0LJ211710840F**  
**EAN: 4052899932777**

**LP-Nummer**  
**55591\_2**



**Ausführung** LUMILUX® Combi LED-F, mit Klemme für Festanschluss, Abdeckung, satiniert, PC

**Bestückung** LED 4000K / CRI ≥ 80

**Betriebsgerät** EVG

**Bemessungswerte** Nettolichtstrom = 980 lm  
Systemleistung = 10.0 W  
Lichtausbeute = 98 lm/W

**Seriendokumentation**  
**06.05.2015**

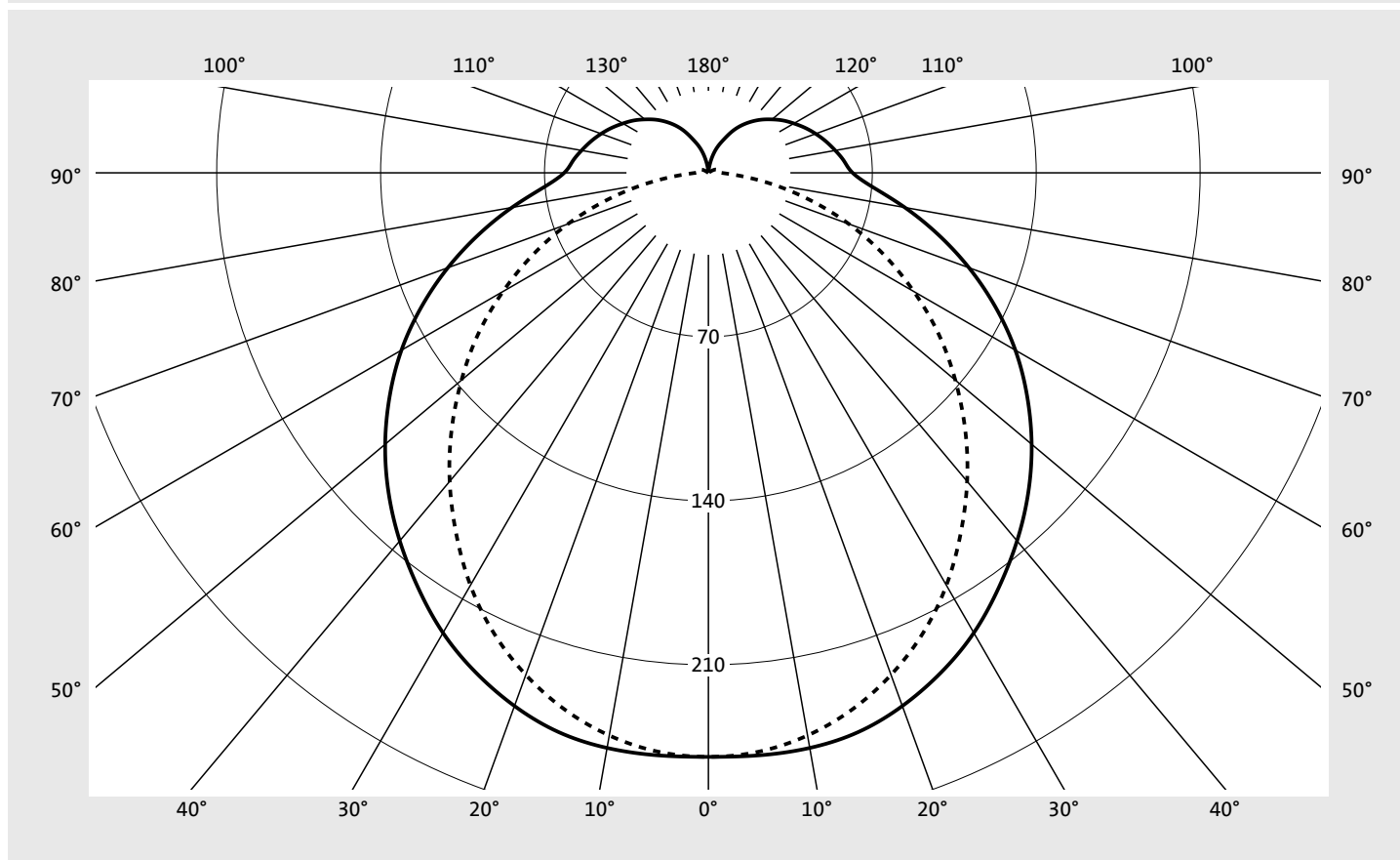
**siteco**

**Lichtstärke in cd/klm**

**C180-0**

**C270-90**

**Imax: 250 cd/klm**



**Klassifizierungen**

DIN 5040 B 3 1  
CIE N1=41 N2=70 N3=90  
N4=84 N5=100

**Leuchtenbetriebswirkungsgrade**

$\eta_{LB}$  100,0%  
 $\phi_u$  84,3%  
 $\phi_o$  15,7%

**Messbedingungen**

DIN EN 13032 und DIN 5032

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|  |  |                                    |
|--|--|------------------------------------|
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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 |                   |
| 0°                    | 249.3      | 249.3                | 249.3                | 249.3                | 249.3                | 249.3                | 249.3       | 1.5                  | 1.5               |
| 5°                    | 249.6      | 249.3                | 249.1                | 248.7                | 248.2                | 247.7                | 248.0       | 11.9                 | 13.4              |
| 10°                   | 249.3      | 248.7                | 247.9                | 246.8                | 245.5                | 244.2                | 243.8       | 23.5                 | 36.8              |
| 15°                   | 247.1      | 246.2                | 245.1                | 243.0                | 240.7                | 237.9                | 237.2       | 34.4                 | 71.2              |
| 20°                   | 242.2      | 241.5                | 239.8                | 237.2                | 233.5                | 229.8                | 228.0       | 44.3                 | 115.5             |
| 25°                   | 235.2      | 234.7                | 232.0                | 229.0                | 224.0                | 219.1                | 216.8       | 52.7                 | 168.2             |
| 30°                   | 226.7      | 225.2                | 222.9                | 218.6                | 212.7                | 206.9                | 203.3       | 59.4                 | 227.7             |
| 35°                   | 216.2      | 215.6                | 212.1                | 206.8                | 200.0                | 193.0                | 187.9       | 64.4                 | 292.1             |
| 40°                   | 205.1      | 204.1                | 200.3                | 194.0                | 186.3                | 178.0                | 171.9       | 67.6                 | 359.7             |
| 45°                   | 193.2      | 191.7                | 187.2                | 180.4                | 171.4                | 161.8                | 155.1       | 68.9                 | 428.6             |
| 50°                   | 180.2      | 178.5                | 173.3                | 165.4                | 155.6                | 145.5                | 137.6       | 68.4                 | 497.0             |
| 55°                   | 166.2      | 164.3                | 158.6                | 149.8                | 139.3                | 128.1                | 120.1       | 66.1                 | 563.1             |
| 60°                   | 151.4      | 149.3                | 143.0                | 133.7                | 122.5                | 110.5                | 101.3       | 62.1                 | 625.2             |
| 65°                   | 135.2      | 133.4                | 126.8                | 116.9                | 104.9                | 92.2                 | 82.7        | 56.6                 | 681.8             |
| 70°                   | 118.4      | 116.6                | 109.9                | 99.8                 | 87.0                 | 73.8                 | 63.8        | 49.6                 | 731.4             |
| 75°                   | 101.5      | 99.6                 | 92.8                 | 82.3                 | 69.3                 | 55.4                 | 45.0        | 41.7                 | 773.1             |
| 80°                   | 85.2       | 82.8                 | 76.0                 | 65.6                 | 52.4                 | 37.9                 | 27.4        | 33.4                 | 806.5             |
| 85°                   | 70.6       | 68.5                 | 61.8                 | 51.3                 | 38.2                 | 23.4                 | 12.6        | 25.9                 | 832.4             |
| 90°                   | 61.6       | 59.5                 | 53.3                 | 43.1                 | 30.3                 | 16.0                 | 5.5         | 21.5                 | 853.9             |
| 95°                   | 58.1       | 56.5                 | 50.6                 | 41.0                 | 28.7                 | 14.8                 | 5.0         | 20.3                 | 874.2             |
| 100°                  | 55.0       | 53.4                 | 47.9                 | 38.9                 | 27.1                 | 13.8                 | 4.6         | 19.0                 | 893.2             |
| 105°                  | 51.9       | 50.5                 | 45.2                 | 36.7                 | 25.6                 | 12.9                 | 4.3         | 17.6                 | 910.8             |
| 110°                  | 48.7       | 47.3                 | 42.5                 | 34.5                 | 24.0                 | 12.1                 | 3.8         | 16.0                 | 926.8             |
| 115°                  | 45.5       | 44.3                 | 39.8                 | 32.2                 | 22.4                 | 10.9                 | 3.3         | 14.4                 | 941.2             |
| 120°                  | 42.2       | 41.1                 | 37.0                 | 30.0                 | 20.7                 | 9.4                  | 2.2         | 12.7                 | 953.9             |
| 125°                  | 39.0       | 37.8                 | 34.1                 | 27.6                 | 19.0                 | 8.0                  | 0.7         | 10.9                 | 964.9             |
| 130°                  | 35.5       | 34.7                 | 31.1                 | 25.1                 | 17.0                 | 6.7                  | 0.1         | 9.3                  | 974.1             |
| 135°                  | 32.1       | 31.3                 | 28.0                 | 22.6                 | 14.5                 | 5.6                  | 0.0         | 7.6                  | 981.7             |
| 140°                  | 28.5       | 27.7                 | 24.8                 | 19.6                 | 12.2                 | 4.6                  | 0.0         | 6.1                  | 987.8             |
| 145°                  | 24.7       | 24.0                 | 21.2                 | 16.2                 | 10.3                 | 3.7                  | 0.0         | 4.6                  | 992.4             |
| 150°                  | 20.5       | 19.8                 | 17.2                 | 13.3                 | 8.3                  | 2.9                  | 0.0         | 3.3                  | 995.7             |
| 155°                  | 15.9       | 15.4                 | 13.6                 | 10.5                 | 6.4                  | 2.1                  | 0.0         | 2.2                  | 997.8             |
| 160°                  | 12.2       | 11.8                 | 10.2                 | 7.7                  | 4.3                  | 1.3                  | 0.0         | 1.3                  | 999.1             |
| 165°                  | 8.3        | 8.0                  | 6.8                  | 4.8                  | 2.2                  | 0.6                  | 0.0         | 0.6                  | 999.8             |
| 170°                  | 4.2        | 3.9                  | 3.0                  | 1.6                  | 0.9                  | 0.2                  | 0.1         | 0.2                  | 999.9             |
| 175°                  | 1.0        | 1.0                  | 0.8                  | 0.6                  | 0.3                  | 0.2                  | 0.2         | 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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| UGR-Tabelle     |     | Standardraum                        |      |      |      |      |                                       |      |      |      |      |
|-----------------|-----|-------------------------------------|------|------|------|------|---------------------------------------|------|------|------|------|
| Raumabmessungen |     | Blickrichtung quer zur Leuchte (C0) |      |      |      |      | Blickrichtung längs zur Leuchte (C90) |      |      |      |      |
| x               | y   |                                     |      |      |      |      |                                       |      |      |      |      |
| 2H              | 2H  | 20,0                                | 21,6 | 20,5 | 22,1 | 22,6 | 19,7                                  | 21,2 | 20,1 | 21,7 | 22,2 |
|                 | 3H  | 21,9                                | 23,3 | 22,4 | 23,8 | 24,4 | 21,2                                  | 22,7 | 21,7 | 23,2 | 23,7 |
|                 | 4H  | 22,7                                | 24,0 | 23,2 | 24,5 | 25,1 | 21,8                                  | 23,1 | 22,3 | 23,6 | 24,2 |
|                 | 6H  | 23,4                                | 24,6 | 24,0 | 25,1 | 25,8 | 22,1                                  | 23,4 | 22,7 | 23,9 | 24,6 |
|                 | 8H  | 23,8                                | 24,9 | 24,3 | 25,5 | 26,1 | 22,2                                  | 23,4 | 22,8 | 24,0 | 24,6 |
|                 | 12H | 24,0                                | 25,1 | 24,6 | 25,7 | 26,4 | 22,3                                  | 23,4 | 22,9 | 24,0 | 24,7 |
| 4H              | 2H  | 20,7                                | 22,0 | 21,2 | 22,6 | 23,1 | 20,4                                  | 21,7 | 20,9 | 22,2 | 22,8 |
|                 | 3H  | 22,7                                | 23,8 | 23,3 | 24,4 | 25,0 | 22,1                                  | 23,2 | 22,7 | 23,8 | 24,4 |
|                 | 4H  | 23,7                                | 24,7 | 24,3 | 25,3 | 26,0 | 22,8                                  | 23,8 | 23,4 | 24,4 | 25,1 |
|                 | 6H  | 24,5                                | 25,4 | 25,2 | 26,0 | 26,8 | 23,3                                  | 24,2 | 23,9 | 24,8 | 25,5 |
|                 | 8H  | 25,0                                | 25,8 | 25,6 | 26,4 | 27,2 | 23,5                                  | 24,3 | 24,1 | 25,0 | 25,7 |
|                 | 12H | 25,3                                | 26,0 | 26,0 | 26,7 | 27,5 | 23,6                                  | 24,3 | 24,2 | 25,0 | 25,7 |
| 8H              | 4H  | 24,0                                | 24,8 | 24,6 | 25,4 | 26,2 | 23,2                                  | 24,0 | 23,8 | 24,6 | 25,4 |
|                 | 6H  | 25,1                                | 25,8 | 25,7 | 26,5 | 27,2 | 23,9                                  | 24,6 | 24,6 | 25,2 | 26,0 |
|                 | 8H  | 25,6                                | 26,2 | 26,3 | 26,9 | 27,7 | 24,2                                  | 24,8 | 24,8 | 25,5 | 26,3 |
|                 | 12H | 26,1                                | 26,6 | 26,8 | 27,3 | 28,1 | 24,3                                  | 24,8 | 25,0 | 25,6 | 26,4 |
| 12H             | 4H  | 23,9                                | 24,7 | 24,6 | 25,3 | 26,1 | 23,2                                  | 23,9 | 23,9 | 24,6 | 25,4 |
|                 | 6H  | 25,1                                | 25,7 | 25,8 | 26,4 | 27,2 | 24,0                                  | 24,6 | 24,7 | 25,3 | 26,1 |
|                 | 8H  | 25,7                                | 26,2 | 26,4 | 26,9 | 27,7 | 24,3                                  | 24,8 | 25,0 | 25,6 | 26,4 |

| Leuchtdichten-Tabelle |          | Max. für $\gamma \geq 65^\circ$   |         | Lichttechnische Abmessungen in mm: |         | L = 580 | H(C0) = 16  | H(C180) = 16 |
|-----------------------|----------|-----------------------------------|---------|------------------------------------|---------|---------|-------------|--------------|
|                       |          |                                   |         |                                    |         | B = 25  | H(C90) = 23 | H(C270) = 23 |
| C-Ebenen              | $\gamma$ | 0°                                | 15°     | 30°                                | 45°     | 60°     | 75°         | 90°          |
|                       |          | 180°                              | 165°    | 150°                               | 135°    | 120°    | 105°        | 90°          |
|                       |          |                                   | 195°    | 210°                               | 225°    | 240°    | 255°        | 270°         |
|                       |          |                                   | 345°    | 330°                               | 315°    | 300°    | 285°        |              |
|                       |          | Leuchtdichte in cd/m <sup>2</sup> |         |                                    |         |         |             |              |
| 45°                   |          | 11258.2                           | 11250.3 | 11368.8                            | 11646.7 | 12099.8 | 12847.4     | 14259.8      |
| 50°                   |          | 10749.6                           | 10730.2 | 10818.8                            | 11054.8 | 11503.0 | 12306.2     | 13819.9      |
| 55°                   |          | 10230.2                           | 10202.5 | 10271.1                            | 10470.6 | 10898.4 | 11689.6     | 13389.2      |
| 60°                   |          | 9704.5                            | 9661.5  | 9690.9                             | 9862.3  | 10257.5 | 11033.5     | 12812.8      |
| 65°                   |          | 9112.4                            | 9088.2  | 9087.9                             | 9205.2  | 9535.8  | 10261.7     | 12186.8      |
| 70°                   |          | 8483.5                            | 8447.5  | 8425.7                             | 8498.3  | 8714.8  | 9347.8      | 11375.4      |
| 75°                   |          | 7823.4                            | 7774.8  | 7710.5                             | 7693.6  | 7793.3  | 8208.6      | 10226.8      |
| 80°                   |          | 7163.0                            | 7058.9  | 6951.7                             | 6857.3  | 6771.8  | 6836.1      | 8711.2       |
| 85°                   |          | 6579.5                            | 6493.6  | 6334.9                             | 6130.7  | 5858.3  | 5455.3      | 6747.9       |

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

