

# WELUX LED Downlights

## Metal Series

Housing and Trim: Die-cast aluminium  
 Mounting type: Surface  
 Heat Management: Die-cast aluminium heat sink  
 Reflector: Aluminium  
 Diffuser: Clear PMMA or Frosted Glass

LED Modules  
 GERMAN Technology  
 Comfort COB - Up to 2800lm  
 Long service life time : 50,000 hours (L80/B10)  
 Ambient temperature - 40°C to +40°C

Drivers: 250mA / 300mA / 350mA / 500mA  
 (optional: Dimmable available)  
 Power factor at full load : 0.97  
 SELV , Low Ripple current < 1% ,THD <15%  
 Energy efficiency : A+  
 Warranty: 5 years

Standards  
 EN 620301: LED modules for general lighting - Safety specification  
 EN 62471: Photobiological safety of lamps and systems  
 EN 55015: Radio disturbance emissions  
 EN 61000-3-2 Limited for harmonic emissions  
 EN 61547: Immunity requirements



Powered by:



Application: Commercial Building, Lobby, Conventional Hall, Ballroom, Concourse

| Model                | Module Wattage | System Wattage | Voltage | Frequency | Power Factor | Colour        | Colour Temperature | Module Luminous Flux (Lm) | Module Efficacy Lm/W | Typ. Beam Angle | Typ. CRI Ra | Dimension (Dia x H) mm |
|----------------------|----------------|----------------|---------|-----------|--------------|---------------|--------------------|---------------------------|----------------------|-----------------|-------------|------------------------|
| M1-3-8W              | 7.3W           | 8.5W           | 220-240 | 50/60Hz   | 0.95         | Warm white    | 2700K              | 965                       | 133                  | 15° 24° 45°     | >82         | 110 x 120              |
|                      |                |                | 220-240 | 50/60Hz   | 0.95         | Warm white    | 3000K              | 1015                      | 140                  | 15° 24° 45°     | >82         |                        |
|                      |                |                | 220-240 | 50/60Hz   | 0.95         | Neutral white | 4000K              | 1045                      | 144                  | 15° 24° 45°     | >82         |                        |
|                      |                |                | 220-240 | 50/60Hz   | 0.95         | Cool white    | 5700K              | 1055                      | 145                  | 15° 24° 45°     | >82         |                        |
|                      |                |                |         |           |              |               |                    |                           |                      |                 |             |                        |
| M1-3-11W             | 10.3W          | 11.5W          | 220-240 | 50/60Hz   | 0.95         | Warm white    | 2700K              | 1505                      | 146                  | 15° 24° 45°     | >82         | 110 x 120              |
|                      |                |                | 220-240 | 50/60Hz   | 0.95         | Warm white    | 3000K              | 1585                      | 154                  | 15° 24° 45°     | >82         |                        |
|                      |                |                | 220-240 | 50/60Hz   | 0.95         | Neutral white | 4000K              | 1630                      | 158                  | 15° 24° 45°     | >82         |                        |
|                      |                |                | 220-240 | 50/60Hz   | 0.95         | Cool white    | 5700K              | 1645                      | 160                  | 15° 24° 45°     | >82         |                        |
|                      |                |                |         |           |              |               |                    |                           |                      |                 |             |                        |
| M1-3-14W<br>M1-4-14W | 12.2W          | 14.5W          | 220-240 | 50/60Hz   | 0.95         | Warm white    | 2700K              | 1720                      | 141                  | 15° 24° 45°     | >82         | 110 x 120<br>133 x 153 |
|                      |                |                | 220-240 | 50/60Hz   | 0.95         | Warm white    | 3000K              | 1810                      | 149                  | 15° 24° 45°     | >82         |                        |
|                      |                |                | 220-240 | 50/60Hz   | 0.95         | Neutral white | 4000K              | 1865                      | 153                  | 15° 24° 45°     | >82         |                        |
|                      |                |                | 220-240 | 50/60Hz   | 0.95         | Cool white    | 5700K              | 1885                      | 155                  | 15° 24° 45°     | >82         |                        |
|                      |                |                |         |           |              |               |                    |                           |                      |                 |             |                        |
| M1-4-19W             | 17.3W          | 19.5W          | 220-240 | 50/60Hz   | 0.95         | Warm white    | 2700K              | 2585                      | 149                  | 24° 45°         | >82         | 133 x 153              |
|                      |                |                | 220-240 | 50/60Hz   | 0.95         | Warm white    | 3000K              | 2725                      | 158                  | 24° 45°         | >82         |                        |
|                      |                |                | 220-240 | 50/60Hz   | 0.95         | Neutral white | 4000K              | 2805                      | 162                  | 24° 45°         | >82         |                        |
|                      |                |                | 220-240 | 50/60Hz   | 0.95         | Cool white    | 5700K              | 2830                      | 164                  | 24° 45°         | >82         |                        |
|                      |                |                |         |           |              |               |                    |                           |                      |                 |             |                        |

\*Colour tolerance: 3 MacAdam \*\*Production tolerance of luminous flux and efficiency: ±10% \*\*\*Min. CRI ±3% \*\*\*\*Power consumption: ±10%  
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 (optional: Dimmable available)  
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Standards  
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 EN 62471: Photobiological safety of lamps and systems  
 EN 55015: Radio disturbance emissions  
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Application: Commercial Building, Lobby, Conventional Hall, Ballroom, Concourse



Powered by:



| Model    | Module Wattage | System Wattage | Voltage | Frequency | Power Factor | Colour        | Colour Temperature | Module Luminous Flux (Lm) | Module Efficacy Lm/W | Typ. Beam Angle | Typ. CRI Ra | Dimension (Dia x H) mm |
|----------|----------------|----------------|---------|-----------|--------------|---------------|--------------------|---------------------------|----------------------|-----------------|-------------|------------------------|
| M1-4-24W | 21.2W          | 24.0W          | 220-240 | 50/60Hz   | 0.95         | Warm white    | 2700K              | 3030                      | 143                  | 24° 45°         | >82         | 130 x 152              |
|          |                |                | 220-240 | 50/60Hz   | 0.95         | Warm white    | 3000K              | 3185                      | 151                  | 24° 45°         | >82         |                        |
|          |                |                | 220-240 | 50/60Hz   | 0.95         | Neutral white | 4000K              | 3280                      | 155                  | 24° 45°         | >82         |                        |
|          |                |                | 220-240 | 50/60Hz   | 0.95         | Cool white    | 5000K              | 3345                      | 158                  | 24° 45°         | >82         |                        |
|          |                |                | 220-240 | 50/60Hz   | 0.95         | Cool white    | 5700K              | 3315                      | 157                  | 24° 45°         | >82         |                        |
| M1-5-34W | 32.0W          | 34.5W          | 220-240 | 50/60Hz   | 0.95         | Warm white    | 2700K              | 4455                      | 139                  | 24° 45°         | >82         | 170 x 185              |
|          |                |                | 220-240 | 50/60Hz   | 0.95         | Warm white    | 3000K              | 4690                      | 147                  | 24° 45°         | >82         |                        |
|          |                |                | 220-240 | 50/60Hz   | 0.95         | Neutral white | 4000K              | 4830                      | 151                  | 24° 45°         | >82         |                        |
|          |                |                | 220-240 | 50/60Hz   | 0.95         | Cool white    | 5000K              | 4920                      | 154                  | 24° 45°         | >82         |                        |
|          |                |                | 220-240 | 50/60Hz   | 0.95         | Cool white    | 5700K              | 4875                      | 152                  | 24° 45°         | >82         |                        |
| M1-6-41W | 38.0W          | 41.0W          | 220-240 | 50/60Hz   | 0.95         | Warm white    | 2700K              | 5045                      | 133                  | 24° 45°         | >82         | 196 x 198              |
|          |                |                | 220-240 | 50/60Hz   | 0.95         | Warm white    | 3000K              | 5310                      | 140                  | 24° 45°         | >82         |                        |
|          |                |                | 220-240 | 50/60Hz   | 0.95         | Neutral white | 4000K              | 5465                      | 144                  | 24° 45°         | >82         |                        |
|          |                |                | 220-240 | 50/60Hz   | 0.95         | Cool white    | 5000K              | 5575                      | 147                  | 24° 45°         | >82         |                        |
|          |                |                | 220-240 | 50/60Hz   | 0.95         | Cool white    | 5700K              | 5520                      | 145                  | 24° 45°         | >82         |                        |
| M1-6-49W | 44.2W          | 49.0W          | 220-240 | 50/60Hz   | 0.95         | Warm white    | 2700K              | 5590                      | 127                  | 24° 45°         | >82         | 196 x 198              |
|          |                |                | 220-240 | 50/60Hz   | 0.95         | Warm white    | 3000K              | 5885                      | 133                  | 24° 45°         | >82         |                        |
|          |                |                | 220-240 | 50/60Hz   | 0.95         | Neutral white | 4000K              | 6060                      | 137                  | 24° 45°         | >82         |                        |
|          |                |                | 220-240 | 50/60Hz   | 0.95         | Cool white    | 5000K              | 6175                      | 140                  | 24° 45°         | >82         |                        |
|          |                |                | 220-240 | 50/60Hz   | 0.95         | Cool white    | 5700K              | 6120                      | 139                  | 24° 45°         | >82         |                        |

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| M1-3-8W              | 7.3W           | 8.5W           | 220-240 | 50/60Hz   | 0.95         | Warm white    | 2700K              | 965                       | 133                  | 15° 24° 45°     | >82         | 110 x 120              |
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