# LED Curing Lamps

## LED lamps

<table>
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<th>Model</th>
<th>Description</th>
<th>Dimensions of lamp head</th>
<th>Light exit area</th>
<th>Wavelength / typical intensity</th>
<th>Cooling mechanism</th>
<th>Control</th>
<th>Reliability</th>
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<tr>
<td><strong>DELOLUX® 50</strong></td>
<td>High-intensity spot light source</td>
<td>x1: 0.47 in dia. × 2.8 in (12 mm dia. × 71 mm) x4: 0.59 in dia. × 2.99 in (15 mm dia. × 76 mm)</td>
<td>x1: 0.34 in dia.* (8.6 mm dia.) x4: 0.45 in dia.* (11.5 mm dia.)</td>
<td>365 nm ×1: ≥ 18,000 mW/cm² 365 nm ×4: ≥ 3,500 mW/cm² 400 nm ×1: ≥ 15,000 mW/cm² 400 nm ×4: ≥ 7,000 mW/cm² 460 nm ×1: ≥ 14,000 mW/cm²</td>
<td>Passively cooled Powerguide, heat sink in lamp head</td>
<td>DELO® pilot and optional downstream PLC</td>
<td>Intensity measurement with DELOLUXcontrol</td>
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<tr>
<td><strong>DELOLUX® 80</strong></td>
<td>High-intensity area lamp for smaller bonding areas</td>
<td>365 nm: 1.06 in dia. × 3.62 in (27 mm dia. × 92 mm) 400 nm: 1.06 in dia. × 3.62 in (27 mm dia. × 92 mm) 460 nm: 0.79 in dia. × 3.35 in (20 mm dia. × 85 mm)</td>
<td></td>
<td>365 nm: ≥ 4,000 mW/cm² 400 nm: ≥ 5,500 mW/cm² 460 nm: ≥ 2,500 mW/cm²</td>
<td>Closed and monitored Coldguide® liquid cooling system</td>
<td>DELO®-UNIPRO, DELO®-UNIPRO Light or external PLC</td>
<td>Intensity measurement with DELOLUXcontrol</td>
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<tr>
<td><strong>DELOLUX® 20</strong></td>
<td>High-intensity area lamp for even irradiation</td>
<td>DELOLUX 20: 4.41 in × 4.41 in × 4.76 in (112 mm × 112 mm × 121 mm) DELOLUX 202: 8.23 in × 2.64 in × 4.76 in (209 mm × 67 mm × 121 mm)</td>
<td></td>
<td>365 nm (A1): ≥ 600 mW/cm² 365 nm (A2): ≥ 1,200 mW/cm² 400 nm (A1): ≥ 1,000 mW/cm² 400 nm (A2): ≥ 2,000 mW/cm² 460 nm (A1): ≥ 1,000 mW/cm² 460 nm (A2): ≥ 2,000 mW/cm²</td>
<td>Active air cooling</td>
<td>DELO® pilot and optional downstream PLC</td>
<td>Intensity measurement with DELOLUXcontrol</td>
</tr>
<tr>
<td><strong>DELOLUX® 820</strong></td>
<td>Area lamp for even irradiation</td>
<td>x4: 33.39 in × 3.26 in × 7.05 in (848 mm × 82.8 mm × 179 mm) x6: 49.88 in × 3.26 in × 7.05 in (1,267 mm × 82.8 mm × 179 mm)</td>
<td></td>
<td>365 nm: ≥ 250 mW/cm²</td>
<td>Liquid cooling with external cooling unit</td>
<td>DELO®-UNIPRO, DELO®-UNIPRO Light or external PLC</td>
<td>Intensity measurement with DELOLUXcontrol</td>
</tr>
</tbody>
</table>

* various optics available
### Properties
- Emission spectra optimized for adhesives
- Evenly distributed intensity
- Monitoring of the LED temperature and function
- Regular intensity measurement at the component with DELOLUXcontrol
- Low energy consumption
- Service life of more than 20,000 h possible
- Stable light power at a constantly high level
- Lamp heads are easy to install

### Your benefits
- Reliable adhesive curing, high process reliability
- Low operating and maintenance costs
- Fast curing in seconds, short cycle times
- Easy integration into systems

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Further details at [www.DELO.show/light-curing](http://www.DELO.show/light-curing)