

# Density guideline Lucoled back lighting modules

| product      | product picture   | color                        | Watt per modul | voltage | string length | depth (dz) in mm | modules per m <sup>2</sup> | module distance (dx) in mm | row distance (dy) in mm |
|--------------|---|------------------------------|----------------|---------|---------------|------------------|----------------------------|----------------------------|-------------------------|
| Lucoled EC21 |    | white 6500 K                 | 0,72           | 12V     | 6,5 m         | 60               | 238                        | 70                         | 60                      |
|              |   |                              | 0,72           | 12V     |               | 120              | 64                         | 130                        | 120                     |
|              |   |                              | 0,72           | 12V     |               | 180              | 43                         | 130                        | 180                     |
| Lucoled EC31 |    | white 6500 K                 | 1,0            | 12V     | 9,25 m        | 60               | 208                        | 80                         | 60                      |
|              |   |                              | 1,0            | 12V     |               | 120              | 60                         | 140                        | 120                     |
|              |   |                              | 1,0            | 12V     |               | 180              | 31                         | 180                        | 180                     |
| Lucoled PS20 |    | white 6500 K                 | 0,34           | 12V     | 6,75 m        | 40               | 286                        | 70                         | 50                      |
|              |   |                              | 0,34           | 12V     |               | 60               | 159                        | 90                         | 70                      |
|              |   |                              | 0,34           | 12V     |               | 80               | 101                        | 110                        | 90                      |
|              |   |                              | 0,34           | 12V     |               | 100              | 64                         | 130                        | 120                     |
| Lucoled PL30 |    | white 6500 K                 | 0,72           | 12V     | 10,0 m        | 80               | 60                         | 140                        | 120                     |
|              |   |                              | 0,72           | 12V     |               | 100              | 35                         | 180                        | 160                     |
|              |   |                              | 0,72           | 12V     |               | 120              | 25                         | 200                        | 200                     |
|              |   |                              | 0,72           | 12V     |               | 150              | 25                         | 200                        | 200                     |
|              |   |                              | 0,72           | 12V     |               | 180              | 25                         | 200                        | 200                     |
| Lucoled PR20 |    | white 4000 K, 5000 K, 7000 K | 0,8            | 12V     | 9,4 m         | 60               | 43                         | 150                        | 150                     |
|              |   |                              | 0,8            | 12V     |               | 80               | 30                         | 178                        | 180                     |
|              |   |                              | 0,8            | 12V     |               | 100              | 22                         | 178                        | 240                     |
| Lucoled PR40 |    | white 7000 K                 | 1,2            | 12V     | 6,3 m         | 60               | 43                         | 150                        | 150                     |
|              |   |                              | 1,2            | 12V     |               | 80               | 30                         | 180                        | 180                     |
|              |   |                              | 1,2            | 12V     |               | 100              | 18                         | 220                        | 250                     |
|              |   |                              | 1,2            | 12V     |               | 120              | 14                         | 220                        | 300                     |
| Lucoled BL31 |  | white 6500 K                 | 3,6            | 12V     | 8,25 m        | 100              | 13                         | 300                        | 250                     |
|              |   |                              | 3,6            | 12V     |               | 150              | 7                          | 300                        | 500                     |
|              |   |                              | 3,6            | 12V     |               | 200              | 5                          | 300                        | 700                     |
|              |   |                              | 3,6            | 12V     |               | 250              | 3                          | 350                        | 900                     |
|              |   |                              | 3,6            | 12V     |               | 300              | 3                          | 350                        | 1100                    |
| Lucoled BL70 |  | white 6500 K                 | 7,0            | 24V     | 5,87 m        | 120              | 9                          | 300                        | 300                     |
|              |   |                              | 7,0            | 24V     |               | 150              | 6                          | 450                        | 400                     |
|              |   |                              | 7,0            | 24V     |               | 180              | 4                          | 500                        | 500                     |
|              |   |                              | 7,0            | 24V     |               | 180              | 6                          | 450                        | 400                     |
|              |   |                              | 7,0            | 24V     |               | 180              | 9                          | 300                        | 300                     |
|              |   |                              | 7,0            | 24V     |               | 250              | 4                          | 500                        | 500                     |
|              |   |                              | 7,0            | 24V     |               | 250              | 4                          | 500                        | 500                     |
| Lucoled BLI  |  | white 6500 K                 |                | 24V     |               | 30-60            | row distance 80 mm         |                            |                         |
|              |   |                              |                | 24V     |               | 60-80            | row distance 90 mm         |                            |                         |
|              |   |                              |                | 24V     |               | 80-100           | row distance 100 mm        |                            |                         |

Notes:

Results may vary depending on face material properties. The data was obtained using 3 mm thick opaque acrylic in white with a 54% light transmission. Lucoled advises to paint the inside of the box/letters in a matt white color for achieving an optimal result. Always test before production.

string length is based on the maximum wire distance.

For a layout please visit [www.lucoled.com/led-estimator/](http://www.lucoled.com/led-estimator/) or contact your sales representative.

All information are based on a light box estimation.

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