

# 20 MM INDUSTRIAL SERIES

## Product family datasheet



### PRODUCT FEATURES

- ✓ Constant current design
- ✓ Cree LED® 2835 G class (Performance) or 2835 J class (Economy) inside
- ✓ Wide range of CCTs (2200K-6500K) and CRI options including Pro9 technology<sup>1</sup>
- ✓ Up to 202 lm/W efficacy at nominal driving current and  $t_c$  for Performance version
- ✓ Wide 120° angle
- ✓ Precision dimming to ensure colour consistency at low currents<sup>2</sup>
- ✓ Enhanced sulfur resistance
- ✓ WAGO 2065 connectors for easy installation or 2070 connectors for backside installation<sup>3</sup>
- ✓ 4 terminals for serial or parallel wiring with 2065 series WAGO connectors
- ✓ 2 terminals for serial wiring with 2070 series WAGO connectors
- ✓ Aluminium PCB for better thermal management
- ✓ Long lifetime L80 >100 000 hrs<sup>4</sup>
- ✓  $t_c = 95^\circ\text{C}$
- ✓ Zhaga BOOK 7 compliant
- ✓ 0.25ft - 5ft versions available
- ✓ 5 years warranty<sup>5</sup>
- ✓ Made in EU

<sup>1</sup> See table below for details

<sup>2</sup> On request, contact your local sales for availability

<sup>3</sup> See ordering code on page 6 for details

<sup>4</sup> For  $t_c = 85^\circ\text{C}$ . For  $t_c = 95^\circ\text{C}$  L80 = 79 000hrs

<sup>5</sup> See [www.tron.cz](http://www.tron.cz) for detailed conditions

## GENERAL SPECIFICATIONS

| Parameter   | Value Economy version   | Value Performance version |
|---|-------------------------|---------------------------|
| Viewing angle (FWHM)                                  | 120°                    | 120°                      |
| R9 value for CRI90 versions <sup>1</sup>              | Min. 50                 | Min. 50                   |
| Nominal current                                       | 350 mA                  | 350 mA                    |
| Maximum current                                       | 700 mA                  | 1 050 mA                  |
| Nominal $t_c$   | 45 °C                   | 45 °C                     |
| Maximum $t_c$   | 95 °C                   | 95 °C                     |
| Ambient temperature range                             | -40 °C - +70 °C         | -40 °C - +70 °C           |
| Maximum working voltage for insulation <sup>2,3</sup> | 300 V                   | 300 V                     |
| Insulation test voltage                               | 1.6 kV                  | 1.6 kV                    |
| Printed board material                                | Aluminium               | Aluminium                 |
| Printed board CTI                                     | ≥600                    | ≥600                      |
| Risk Group acc. to EN 62471                           | RG1 <sup>4</sup>        | RG1 <sup>4</sup>          |
| Protection  | IP00                    | IP00                      |
| Lumen maintenance L80B50                              | >100 000 h <sup>5</sup> | >100 000 h <sup>5</sup>   |
| Classification acc. to IEC 62031                      | Built-in                | Built-in                  |
| Warranty  | 5 years                 | 5 years                   |

<sup>1</sup> Valid for standard versions only, not valid for Pro9.

<sup>2</sup> See page 8 for detailed mounting instructions.

<sup>3</sup> Type of insulation - basic.

<sup>4</sup> For cool white exceeds RG1 threshold at module current of 786 mA.

<sup>5</sup> For  $t_c = 85^\circ\text{C}$ . For  $t_c = 95^\circ\text{C}$  L80B50 = 79 000 hrs.



## ECONOMY VERSION - TECHNICAL SPECIFICATIONS

| Length             | CCT    | CRI <sup>1</sup> | Nominal current | Maximum current | Luminous flux <sup>2</sup> | Forward voltage | Power  | Efficacy | Colour consistency <sup>3</sup> | Energy class |
|--------------------|--------|------------------|-----------------|-----------------|----------------------------|-----------------|--------|----------|---------------------------------|--------------|
| 70 mm<br>(0.25 ft) | 2700 K | 80               | 350 mA          | 700 mA          | 505 lm                     | 8.3 V           | 2.9 W  | 175 lm/W | 3 SDCM                          | D            |
|                    |        | 90               |                 |                 | 427 lm                     |                 |        | 148 lm/W |                                 | E            |
|                    | 4000 K | 80               |                 |                 | 559 lm                     |                 |        | 194 lm/W |                                 | C            |
|                    |        | 90               |                 |                 | 478 lm                     |                 |        | 166 lm/W |                                 | D            |
|                    | 6500 K | 80               |                 |                 | 559 lm                     |                 |        | 194 lm/W |                                 | C            |
|                    |        | 90               |                 |                 | 478 lm                     |                 |        | 166 lm/W |                                 | D            |
| 140 mm<br>(0.5 ft) | 2700 K | 80               | 350 mA          | 700 mA          | 1 010 lm                   | 16.5 V          | 5.8 W  | 175 lm/W | 3 SDCM                          | D            |
|                    |        | 90               |                 |                 | 855 lm                     |                 |        | 148 lm/W |                                 | E            |
|                    | 4000 K | 80               |                 |                 | 1 118 lm                   |                 |        | 194 lm/W |                                 | C            |
|                    |        | 90               |                 |                 | 956 lm                     |                 |        | 166 lm/W |                                 | D            |
|                    | 6500 K | 80               |                 |                 | 1 118 lm                   |                 |        | 194 lm/W |                                 | C            |
|                    |        | 90               |                 |                 | 956 lm                     |                 |        | 166 lm/W |                                 | D            |
| 280 mm<br>(1 ft)   | 2700 K | 80               | 350 mA          | 700 mA          | 2 014 lm                   | 33.0 V          | 11.5 W | 175 lm/W | 3 SDCM                          | D            |
|                    |        | 90               |                 |                 | 1 704 lm                   |                 |        | 148 lm/W |                                 | E            |
|                    | 4000 K | 80               |                 |                 | 2 229 lm                   |                 |        | 194 lm/W |                                 | C            |
|                    |        | 90               |                 |                 | 1 906 lm                   |                 |        | 166 lm/W |                                 | D            |
|                    | 6500 K | 80               |                 |                 | 2 229 lm                   |                 |        | 194 lm/W |                                 | C            |
|                    |        | 90               |                 |                 | 1 906 lm                   |                 |        | 166 lm/W |                                 | D            |
| 560 mm<br>(2 ft)   | 2700 K | 80               | 350 mA          | 700 mA          | 4 027 lm                   | 66.1 V          | 23.0 W | 175 lm/W | 3 SDCM                          | D            |
|                    |        | 90               |                 |                 | 3 409 lm                   |                 |        | 148 lm/W |                                 | E            |
|                    | 4000 K | 80               |                 |                 | 4 459 lm                   |                 |        | 194 lm/W |                                 | C            |
|                    |        | 90               |                 |                 | 3 811 lm                   |                 |        | 166 lm/W |                                 | D            |
|                    | 6500 K | 80               |                 |                 | 4 459 lm                   |                 |        | 194 lm/W |                                 | C            |
|                    |        | 90               |                 |                 | 3 811 lm                   |                 |        | 166 lm/W |                                 | D            |
| 1 120 mm<br>(4 ft) | 2700 K | 80               | 350 mA          | 700 mA          | 8 054 lm                   | 132.0 V         | 46.0 W | 175 lm/W | 3 SDCM                          | D            |
|                    |        | 90               |                 |                 | 6 817 lm                   |                 |        | 148 lm/W |                                 | E            |
|                    | 4000 K | 80               |                 |                 | 8 917 lm                   |                 |        | 194 lm/W |                                 | C            |
|                    |        | 90               |                 |                 | 7 623 lm                   |                 |        | 166 lm/W |                                 | D            |
|                    | 6500 K | 80               |                 |                 | 8 917 lm                   |                 |        | 194 lm/W |                                 | C            |
|                    |        | 90               |                 |                 | 7 623 lm                   |                 |        | 166 lm/W |                                 | D            |
| 1 400 mm<br>(5 ft) | 2700 K | 80               | 350 mA          | 700 mA          | 10 068 lm                  | 165.0 V         | 57.5 W | 175 lm/W | 3 SDCM                          | D            |
|                    |        | 90               |                 |                 | 8 522 lm                   |                 |        | 148 lm/W |                                 | E            |
|                    | 4000 K | 80               |                 |                 | 11 146 lm                  |                 |        | 194 lm/W |                                 | C            |
|                    |        | 90               |                 |                 | 9 528 lm                   |                 |        | 166 lm/W |                                 | D            |
|                    | 6500 K | 80               |                 |                 | 11 146 lm                  |                 |        | 194 lm/W |                                 | C            |
|                    |        | 90               |                 |                 | 9 528 lm                   |                 |        | 166 lm/W |                                 | D            |

<sup>1</sup> CRI tolerance  $\pm 2$   
<sup>2</sup> Luminous flux tolerance  $\pm 7\%$   
<sup>3</sup> Colour coordinate tolerance  $\pm 0.01$

\* At nominal PCB drive current and  $t_c$  of 45°C  
\*\* Specified values are typical

## PRO9 ECONOMY VERSION - TECHNICAL SPECIFICATIONS

| Length             | CCT    | CRI <sup>1</sup> | Nominal current | Maximum current | Luminous flux <sup>2</sup> | Forward voltage | Power  | Efficacy | Colour consistency <sup>3</sup> | Energy class |
|--------------------|--------|------------------|-----------------|-----------------|----------------------------|-----------------|--------|----------|---------------------------------|--------------|
| 70 mm<br>(0.25 ft) | 2700 K | 90               | 350 mA          | 700 mA          | 512 lm                     | 8.3 V           | 2.9 W  | 176 lm/W | 3 SDCM                          | D            |
|                    | 4000 K | 90               |                 |                 | 544 lm                     |                 |        | 187 lm/W |                                 | C            |
|                    | 6500 K | 90               |                 |                 | 537 lm                     |                 |        | 185 lm/W |                                 | C            |
| 140 mm<br>(0.5 ft) | 2700 K | 90               | 350 mA          | 700 mA          | 1 024 lm                   | 16.5 V          | 5.8 W  | 176 lm/W | 3 SDCM                          | D            |
|                    | 4000 K | 90               |                 |                 | 1 089 lm                   |                 |        | 185 lm/W |                                 | C            |
|                    | 6500 K | 90               |                 |                 | 1 074 lm                   |                 |        | 185 lm/W |                                 | C            |
| 280 mm<br>(1 ft)   | 2700 K | 90               | 350 mA          | 700 mA          | 2 048 lm                   | 33.0 V          | 11.5 W | 176 lm/W | 3 SDCM                          | D            |
|                    | 4000 K | 90               |                 |                 | 2 177 lm                   |                 |        | 185 lm/W |                                 | C            |
|                    | 6500 K | 90               |                 |                 | 2 149 lm                   |                 |        | 185 lm/W |                                 | C            |
| 560 mm<br>(2 ft)   | 2700 K | 90               | 350 mA          | 700 mA          | 4 095 lm                   | 66.1 V          | 23.0 W | 176 lm/W | 3 SDCM                          | D            |
|                    | 4000 K | 90               |                 |                 | 4 355 lm                   |                 |        | 185 lm/W |                                 | C            |
|                    | 6500 K | 90               |                 |                 | 4 297 lm                   |                 |        | 185 lm/W |                                 | C            |
| 1 120 mm<br>(4 ft) | 2700 K | 90               | 350 mA          | 700 mA          | 8 190 lm                   | 132.0 V         | 46.0 W | 176 lm/W | 3 SDCM                          | D            |
|                    | 4000 K | 90               |                 |                 | 8 710 lm                   |                 |        | 185 lm/W |                                 | C            |
|                    | 6500 K | 90               |                 |                 | 8 594 lm                   |                 |        | 185 lm/W |                                 | C            |
| 1 400 mm<br>(5 ft) | 2700 K | 90               | 350 mA          | 700 mA          | 10 238 lm                  | 165.0 V         | 57.5 W | 176 lm/W | 3 SDCM                          | D            |
|                    | 4000 K | 90               |                 |                 | 10 887 lm                  |                 |        | 185 lm/W |                                 | C            |
|                    | 6500 K | 90               |                 |                 | 10 743 lm                  |                 |        | 185 lm/W |                                 | C            |

<sup>1</sup> CRI tolerance  $\pm 2$

<sup>2</sup> Luminous flux tolerance  $\pm 7\%$

<sup>3</sup> Colour coordinate tolerance  $\pm 0.01$

\* At nominal PCB drive current and  $t_c$  of 45°C

\*\* Specified values are typical

## PERFORMANCE VERSION - TECHNICAL SPECIFICATIONS

| Length             | CCT                | CRI <sup>1</sup> | Nominal current | Maximum current | Luminous flux <sup>2</sup> | Forward voltage | Power    | Efficacy | Colour consistency <sup>3</sup> | Energy class |          |        |          |          |        |   |
|--------------------|--------------------|------------------|-----------------|-----------------|----------------------------|-----------------|----------|----------|---------------------------------|--------------|----------|--------|----------|----------|--------|---|
| 70 mm<br>(0.25 ft) | 2200 K             | 80               | 350 mA          | 1 050 mA        | 457 lm                     | 8.2 V           | 2.9 W    | 159 lm/W | 3 SDCM                          | D            |          |        |          |          |        |   |
|                    |                    | 90               |                 |                 | 389 lm                     |                 |          | 135 lm/W |                                 | E            |          |        |          |          |        |   |
|                    | 2700 K             | 80               |                 |                 | 526 lm                     |                 |          | 183 lm/W |                                 | C            |          |        |          |          |        |   |
|                    |                    | 90               |                 |                 | 446 lm                     |                 |          | 155 lm/W |                                 | D            |          |        |          |          |        |   |
|                    | 4000 K             | 80               |                 |                 | 580 lm                     |                 |          | 202 lm/W |                                 | C            |          |        |          |          |        |   |
|                    |                    | 90               |                 |                 | 499 lm                     |                 |          | 173 lm/W |                                 | D            |          |        |          |          |        |   |
|                    | 6500 K             | 80               |                 |                 | 578 lm                     |                 |          | 201 lm/W |                                 | C            |          |        |          |          |        |   |
|                    |                    | 90               |                 |                 | 497 lm                     |                 |          | 173 lm/W |                                 | D            |          |        |          |          |        |   |
|                    | 140 mm<br>(0.5 ft) | 2200 K           |                 |                 | 80                         |                 |          | 350 mA   |                                 | 1 050 mA     | 914 lm   | 16.4 V | 5.8 W    | 159 lm/W | 3 SDCM | D |
|                    |                    |                  |                 |                 | 90                         |                 |          |          |                                 |              | 777 lm   |        |          | 135 lm/W |        | E |
| 2700 K             |                    | 80               | 1 052 lm        | 183 lm/W        | C                          |                 |          |          |                                 |              |          |        |          |          |        |   |
|                    |                    | 90               | 893 lm          | 155 lm/W        | D                          |                 |          |          |                                 |              |          |        |          |          |        |   |
| 4000 K             |                    | 80               | 1 160 lm        | 202 lm/W        | C                          |                 |          |          |                                 |              |          |        |          |          |        |   |
|                    |                    | 90               | 998 lm          | 173 lm/W        | D                          |                 |          |          |                                 |              |          |        |          |          |        |   |
| 6500 K             |                    | 80               | 1 157 lm        | 201 lm/W        | C                          |                 |          |          |                                 |              |          |        |          |          |        |   |
|                    |                    | 90               | 994 lm          | 173 lm/W        | D                          |                 |          |          |                                 |              |          |        |          |          |        |   |
| 280 mm<br>(1 ft)   |                    | 2200 K           | 80              | 350 mA          | 1 050 mA                   | 1 836 lm        | 32.9 V   |          | 11.5 W                          |              | 159 lm/W |        |          | 3 SDCM   |        | D |
|                    |                    |                  | 90              |                 |                            | 1 559 lm        |          |          |                                 |              | 135 lm/W |        |          |          |        | E |
|                    | 2700 K             | 80               | 2 113 lm        |                 |                            | 183 lm/W        |          | C        |                                 |              |          |        |          |          |        |   |
|                    |                    | 90               | 1 793 lm        |                 |                            | 155 lm/W        |          | D        |                                 |              |          |        |          |          |        |   |
|                    | 4000 K             | 80               | 2 329 lm        |                 |                            | 202 lm/W        |          | C        |                                 |              |          |        |          |          |        |   |
|                    |                    | 90               | 2 002 lm        |                 |                            | 173 lm/W        |          | D        |                                 |              |          |        |          |          |        |   |
|                    | 6500 K             | 80               | 2 322 lm        |                 |                            | 201 lm/W        |          | C        |                                 |              |          |        |          |          |        |   |
|                    |                    | 90               | 1 994 lm        |                 |                            | 173 lm/W        |          | D        |                                 |              |          |        |          |          |        |   |
|                    | 560 mm<br>(2 ft)   | 2200 K           | 80              |                 |                            | 350 mA          |          | 1 050 mA |                                 | 3 672 lm     | 65.8 V   | 23.0 W | 159 lm/W |          | 3 SDCM | D |
|                    |                    |                  | 90              |                 |                            |                 |          |          |                                 | 3 118 lm     |          |        | 135 lm/W |          |        | E |
| 2700 K             |                    | 80               | 4 226 lm        | 183 lm/W        | C                          |                 |          |          |                                 |              |          |        |          |          |        |   |
|                    |                    | 90               | 3 586 lm        | 155 lm/W        | D                          |                 |          |          |                                 |              |          |        |          |          |        |   |
| 4000 K             |                    | 80               | 4 658 lm        | 202 lm/W        | C                          |                 |          |          |                                 |              |          |        |          |          |        |   |
|                    |                    | 90               | 4 003 lm        | 173 lm/W        | D                          |                 |          |          |                                 |              |          |        |          |          |        |   |
| 6500 K             |                    | 80               | 4 644 lm        | 201 lm/W        | C                          |                 |          |          |                                 |              |          |        |          |          |        |   |
|                    |                    | 90               | 3 989 lm        | 173 lm/W        | D                          |                 |          |          |                                 |              |          |        |          |          |        |   |
| 1 120 mm<br>(4 ft) |                    | 2200 K           | 80              | 350 mA          | 1 050 mA                   |                 | 7 344 lm |          | 131.5 V                         | 46.0 W       |          |        | 159 lm/W | 3 SDCM   |        | D |
|                    |                    |                  | 90              |                 |                            |                 | 6 235 lm |          |                                 |              |          |        | 135 lm/W |          |        | E |
|                    | 2700 K             | 80               | 8 453 lm        |                 |                            | 183 lm/W        | C        |          |                                 |              |          |        |          |          |        |   |
|                    |                    | 90               | 7 171 lm        |                 |                            | 155 lm/W        | D        |          |                                 |              |          |        |          |          |        |   |
|                    | 4000 K             | 80               | 9 317 lm        |                 |                            | 202 lm/W        | C        |          |                                 |              |          |        |          |          |        |   |
|                    |                    | 90               | 8 006 lm        |                 |                            | 173 lm/W        | D        |          |                                 |              |          |        |          |          |        |   |
|                    | 6500 K             | 80               | 9 288 lm        |                 |                            | 201 lm/W        | C        |          |                                 |              |          |        |          |          |        |   |
|                    |                    | 90               | 7 978 lm        |                 |                            | 173 lm/W        | D        |          |                                 |              |          |        |          |          |        |   |
|                    | 1 400 mm<br>(5 ft) | 2200 K           | 80              |                 |                            | 350 mA          | 1 050 mA | 9 180 lm |                                 |              | 164.4 V  | 57.5 W | 159 lm/W |          | 3 SDCM | D |
|                    |                    |                  | 90              |                 |                            |                 |          | 7 794 lm |                                 |              |          |        | 135 lm/W |          |        | E |
| 2700 K             |                    | 80               | 10 566 lm       | 183 lm/W        | C                          |                 |          |          |                                 |              |          |        |          |          |        |   |
|                    |                    | 90               | 8 964 lm        | 155 lm/W        | D                          |                 |          |          |                                 |              |          |        |          |          |        |   |
| 4000 K             |                    | 80               | 11 646 lm       | 202 lm/W        | C                          |                 |          |          |                                 |              |          |        |          |          |        |   |
|                    |                    | 90               | 10 008 lm       | 173 lm/W        | D                          |                 |          |          |                                 |              |          |        |          |          |        |   |
| 6500 K             |                    | 80               | 11 610 lm       | 201 lm/W        | C                          |                 |          |          |                                 |              |          |        |          |          |        |   |
|                    |                    | 90               | 9 972 lm        | 173 lm/W        | D                          |                 |          |          |                                 |              |          |        |          |          |        |   |

<sup>1</sup> CRI tolerance ±2

<sup>2</sup> Luminous flux tolerance ±7%

<sup>3</sup> Colour coordinate tolerance ±0.01

\* At nominal PCB drive current and tc of 45°C

\*\* Specified values are typical

## PRO9 PERFORMANCE VERSION - TECHNICAL SPECIFICATIONS

| Length             | CCT    | CRI <sup>1</sup> | Nominal current | Maximum current | Luminous flux <sup>2</sup> | Forward voltage | Power  | Efficacy | Colour consistency <sup>3</sup> | Energy class |
|--------------------|--------|------------------|-----------------|-----------------|----------------------------|-----------------|--------|----------|---------------------------------|--------------|
| 70 mm<br>(0.25 ft) | 2700 K | 90               | 350 mA          | 1 050 mA        | 520 lm                     | 8.2 V           | 2.9 W  | 179 lm/W | 3 SDCM                          | C            |
|                    | 4000 K | 90               |                 |                 | 554 lm                     |                 |        | 191 lm/W |                                 | C            |
|                    | 6500 K | 90               |                 |                 | 549 lm                     |                 |        | 189 lm/W |                                 | C            |
| 140 mm<br>(0.5 ft) | 2700 K | 90               | 350 mA          | 1 050 mA        | 1 040 lm                   | 16.4 V          | 5.8 W  | 179 lm/W | 3 SDCM                          | C            |
|                    | 4000 K | 90               |                 |                 | 1 110 lm                   |                 |        | 191 lm/W |                                 | C            |
|                    | 6500 K | 90               |                 |                 | 1 099 lm                   |                 |        | 189 lm/W |                                 | C            |
| 280 mm<br>(1 ft)   | 2700 K | 90               | 350 mA          | 1 050 mA        | 2 081 lm                   | <b>32.9 V</b>   | 11.5 W | 179 lm/W | 3 SDCM                          | C            |
|                    | 4000 K | 90               |                 |                 | 2 219 lm                   |                 |        | 191 lm/W |                                 | C            |
|                    | 6500 K | 90               |                 |                 | 2 197 lm                   |                 |        | 189 lm/W |                                 | C            |
| 560 mm<br>(2 ft)   | 2700 K | 90               | 350 mA          | 1 050 mA        | 4 162 lm                   | 65.8 V          | 23.0 W | 179 lm/W | 3 SDCM                          | C            |
|                    | 4000 K | 90               |                 |                 | 4 438 lm                   |                 |        | 191 lm/W |                                 | C            |
|                    | 6500 K | 90               |                 |                 | 4 395 lm                   |                 |        | 189 lm/W |                                 | C            |
| 1 120 mm<br>(4 ft) | 2700 K | 90               | 350 mA          | 1 050 mA        | 8 324 lm                   | 131.5 V         | 46.0 W | 179 lm/W | 3 SDCM                          | C            |
|                    | 4000 K | 90               |                 |                 | 8 877 lm                   |                 |        | 191 lm/W |                                 | C            |
|                    | 6500 K | 90               |                 |                 | 8 789 lm                   |                 |        | 189 lm/W |                                 | C            |
| 1 400 mm<br>(5 ft) | 2700 K | 90               | 350 mA          | 1 050 mA        | 10 405 lm                  | 164.4 V         | 57.5 W | 179 lm/W | 3 SDCM                          | C            |
|                    | 4000 K | 90               |                 |                 | 11 096 lm                  |                 |        | 191 lm/W |                                 | C            |
|                    | 6500 K | 90               |                 |                 | 10 987 lm                  |                 |        | 189 lm/W |                                 | C            |

<sup>1</sup> CRI tolerance  $\pm 2$

<sup>2</sup> Luminous flux tolerance  $\pm 7\%$

<sup>3</sup> Colour coordinate tolerance  $\pm 0.01$

\* At nominal PCB drive current and  $t_c$  of 45°C

\*\* Specified values are typical

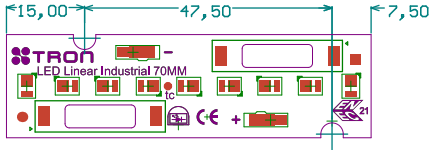
**Product family datasheet**  
**20 MM INDUSTRIAL SERIES**

Revision 12, 04/2024  
Data is subject to change without notice.

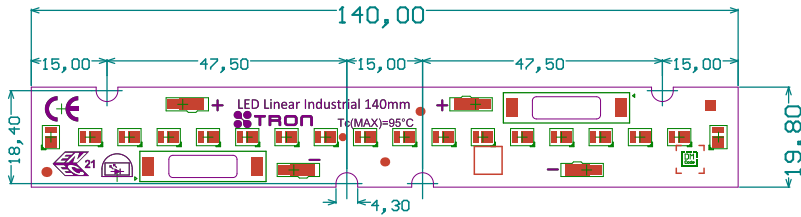


**TECHNICAL DRAWINGS**

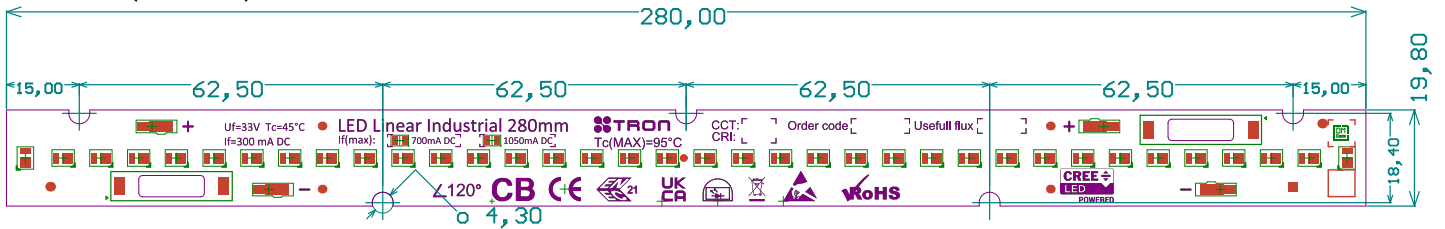
0.25 ft (70 mm)



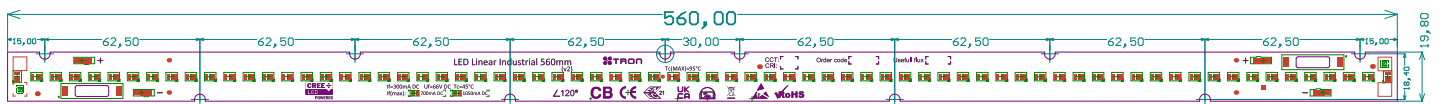
0.5 ft (140 mm)



1 ft (280 mm)



2 ft (560 mm)



4 ft (1120 mm)



5 ft (1400 mm)



## WIRING SPECIFICATION

|   |  |
|---|--|
| Connector type                                  | Wago 2065-100 Push-button terminal (top side) or 2070-461 Push-button terminal (back side) |
| Wire type                                       | Solid or fine-stranded conductor   |
| Strip length                                    | 7.5 - 9.5 mm (2065-100); 8 - 10 mm (2070-461)  |
| Wire size                                       | 0.2 - 0.75 mm <sup>2</sup> / 24 - 18 AWG   |
| Wire can be released by 2065-189 operating tool |  |



## MOUNTING INSTRUCTIONS

The following mounting methods must be used to ensure compliance with specifications:

1. Screws with maximum screw head diameter 7mm.
2. If the screw head diameter exceeds 7mm plastic washer must be used with diameter at least 4mm greater than the diameter of the screw head and thickness greater than 1 mm.
3. Plastic mounting clips.

## SPECIAL PRECAUTIONS

LED Modules are ESD sensitive electronic devices and should be installed, maintained and tested by a qualified person. Handle with care according to IEC 61340-5-1 regulation.

## ORDER CODE CONFIGURATION

| Product code | Length  | Class  | CRI   | CCT  | Orientation of connectors        |
|--------------|---|--|---|--|----------------------------------|
| <b>LMIDS</b> | <b>LLLL</b>   | <b>C</b>                                     | <b>I</b>  | <b>TT</b>  | <b>O</b>                         |
|              | 0070 = 70 mm<br>0140 = 140 mm<br>0280 = 280 mm<br>0560 = 560 mm<br>1120 = 1 120 mm<br>1400 = 1 400 mm | <b>E</b> = Economy<br><b>P</b> = Performance | <b>H</b> = 80<br><b>U</b> = 90<br><b>P</b> = Pro9 | <b>22</b> = 2200 K<br><b>27</b> = 2700 K<br><b>30</b> = 3000 K<br><b>40</b> = 4000 K<br><b>50</b> = 5000 K<br><b>65</b> = 6500 K | <b>U</b> = Up<br><b>D</b> = Down |

Example: **LMIDS-0560-E-U40-D<sup>1</sup>**

<sup>1</sup> Contact your local sales for pricing and availability of other CCT and CRI combinations not listed in the tables above