# LTLNE-300-CX-F-D-FC-W | DATASHEET

OPTO ENGINEERING

## LED line light, coaxial, 300 mm length, far focusing, fan cooling, white, 6200 K

### KEY ADVANTAGES

**High density LEDs.**

**3 types of projection lenses**
Near field focusing (N), far field focusing (F), collimated (C).

**3 opto-mechanical configurations**
Lens only, coaxial illumination (CX) or with 45° mirror (MR).

**2 cooling methods and power intensities**
Passive or active with fans.

**Optional diffusive sheet (D) for illumination uniformity**
Hot spots reduction when inspecting highly reflective surfaces.

**LTLNE series** are high power LED line illuminators designed for line scan applications. LTLNE series are available in three opto-mechanical versions: basic configuration with condensing lens, as coaxial line lights (CX) or integrating a 45° mirror (MR).

### SPECIFICATIONS

#### Lighting specifications

| | | |
|---|---|---|
| Illumination area length | (mm) | 300 |
| Illumination area height | (mm) | 20 |
| Type | | coaxial |
| Focusing | | far |
| Optimal working distance | (mm) | 100-200 |
| Number of LEDs | | 42 |
| Light color, peak wavelength | | white, 6200 K |
| Spectral FWHM | (nm) | - |
| Illuminance[1] | (klux) | n.a. |
| Diffuser | | yes |

#### Electrical specifications

| | | |
|---|---|---|
| Supply voltage[2] | (V) | 24 |
| Current[3] | (mA) | 4000 |
| Power consumption | (W) | 100 |
| Estimated MTBF[4] | (hours) | > 20000 |
| Connector | | WEIPU SP1710/P9 |
| Included cable | | CBLT007 included |

[1] Measured at minimum working distance
[2] ±2%
[3] With constant driving voltage
[4] Drop tp 50% intensity @ 25°C

#### Mechanical specifications

| | | |
|---|---|---|
| Length | (mm) | 340.0 |
| Width | (mm) | 177.0 |
| Height | (mm) | 40.0 |
| Mass | (g) | 2700 |
| Clamping system | | 8x M4 threaded holes |
| Cooling method | | fan |

#### Environment

| | | |
|---|---|---|
| Operating temperature | (°C) | 0-40 |
| Storage temperature | (°C) | -20-+60 |
| Operating relative humidity | (%) | 20-85, non condensing |
| Installation | | Indoor use only |

#### Eye safety

| | |
|---|---|
| Risk group (CEI EN 62471:2010) | Risk group 2 |

### COMPATIBLE PRODUCTS

**Full list of compatible products available *here*.**

A wide selection of innovative machine vision components.

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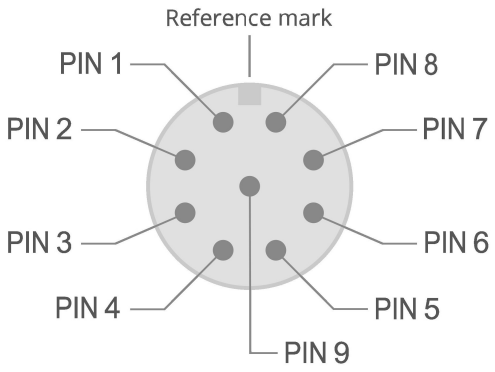
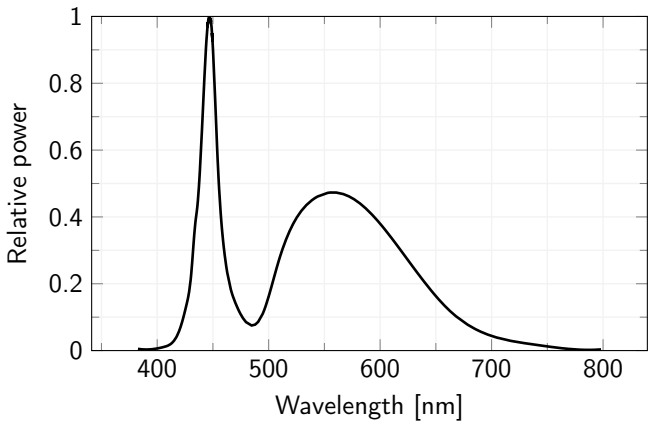
## CONNECTOR PINOUT




Device side

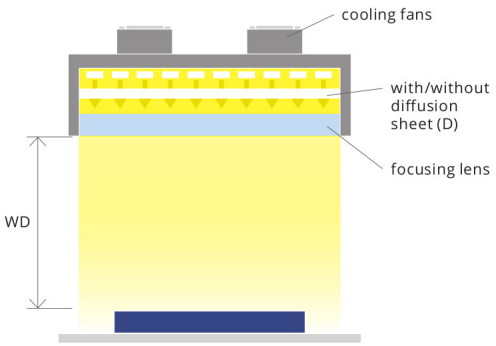
| Pin | Function | Description | Cable color |
|---|---|---|---|
| **1** | LED+ | Light supply: positive terminal | White |
| **2** | LED+ | Light supply: positive terminal | Brown |
| **3** | LED- | Light supply: negative terminal | Green |
| **4** | LED- | Light supply: negative terminal | Yellow |
| **5** | NTC+ | Thermal sensor input: positive terminal | Grey |
| **6** | NTC- | Thermal sensor input: negative terminal | Pink |
| **7** | FAN- | Fan supply: negative terminal | Blue |
| **8** | FAN+ | Fan supply: positive terminal | Red |
| **9** | | Not used | |

### LED color spectrum

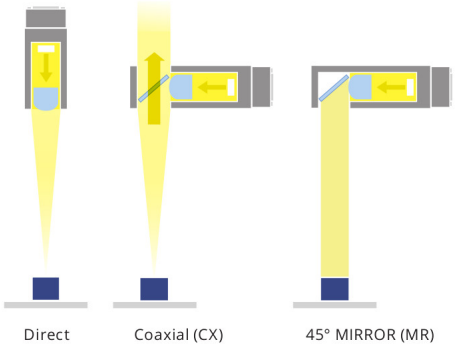



## ADDITIONAL INFO

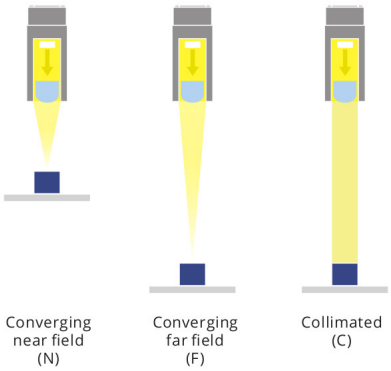
### Lighting structure




### Type




### Projection lenses and focusing distances

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