Infosheet

LuxaLight Modulair LED Fixtures

This infosheet is made to clarify the possibilities of custom made industrial LED fixtures.
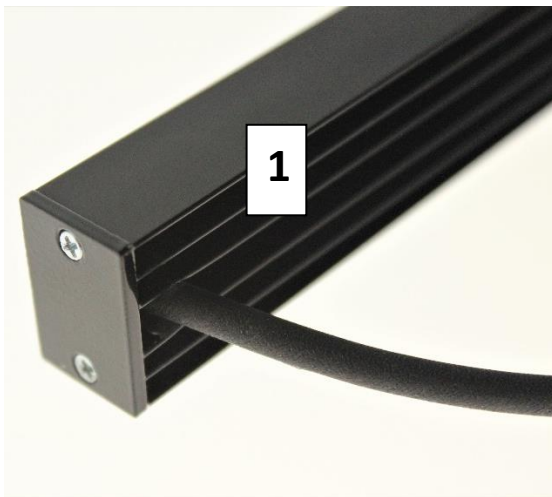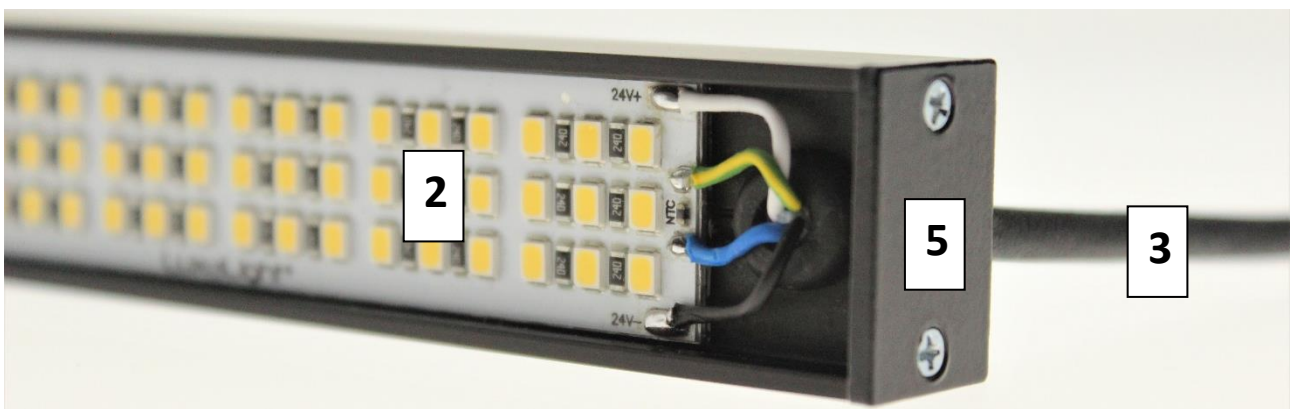
Date:
07-02-2023

What is an industrial LED fixture?

Industrial LED fixtures are assemblies that are assembled (custom made) specifically for each application. A LED fixture is an assembly of individual parts consisting of:

1. Heat sink/ LED profile
2. LED module(s)
3. Cable(s)
4. Moulded or with lens cap
5. End caps

Opal Lens Cover 4A

Clear Lens Cover 4B

Moulded Fixture 4C

How is an industrial LED fixture designed?

An application has technical specifications that the LED fixture must fulfill. These specifications can be:

- **Wavelength(s)**
  - o Luxalight offers a large assortment of LED modules with different wavelengths. All LED modules can be assembled into industrial LED fixtures.
  - o When multiple wavelengths are required, there are two possible solutions:

1. Multiple wavelengths in one fixture
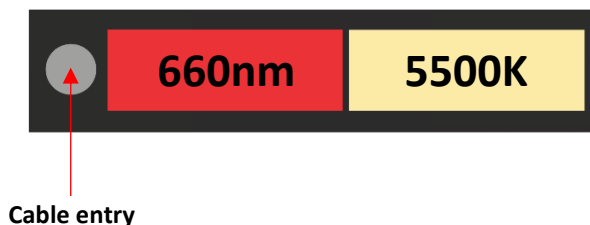
2. Multiple wavelengths in multiple fixtures

660nm	5500K

Cable entry

660nm	660nm

5500K	5500K
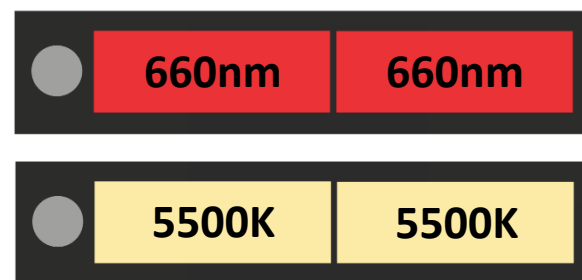
- **Radiance/ Irradiance/ PPFD**
  - o LuxaLight LED modules are used in industrial LED fixtures. When one LED module is not enough for the application, more modules can be added to the fixture, making it longer. This can go up to 14 modules per fixture.

Cable entry

| 1	2	3	4
5500K	5500K	5500K	5500K
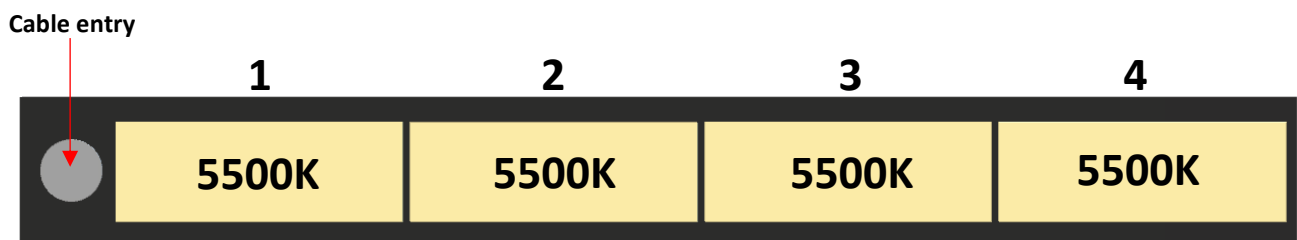
- **LED Controlling**
  - o We advise using the MaNima Pollux Industry in combination with the industrial LED fixtures, for example the following reasons:
    - ▪ LED monitoring with embedded temperature sensors on the LuxaLight LED modules
    - ▪ Pulse control
    - ▪ System integration
  - o For more information about the MaNima Pollux Industry visit: MaNima Pollux Industry | LuxaLight
  - o Controlling individual groups in one fixture is also possible, by using multiple LED modules in one fixture that are individually connected to a MaNima Pollux Industry. For example:

Cable entry

Group 1		Group 2	
5500K	5500K	5500K	5500K
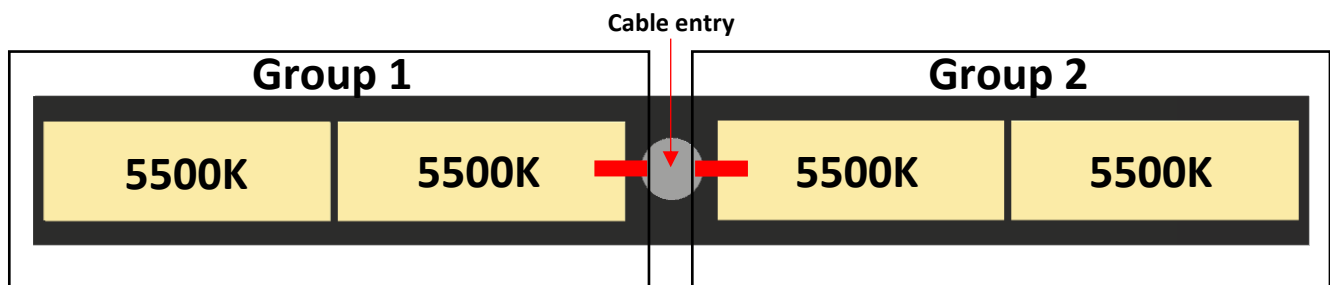
  - o This is just one example of the possibilities. More groups, of different wavelengths are also possible.

- **Mechanical Dimensions**
  - o Length of the fixture is determined by the technical specification required for the application. Height can change depending on using a lens cap (17mm) or a moulded fixture (16mm). Width remains the same 24,2mm.
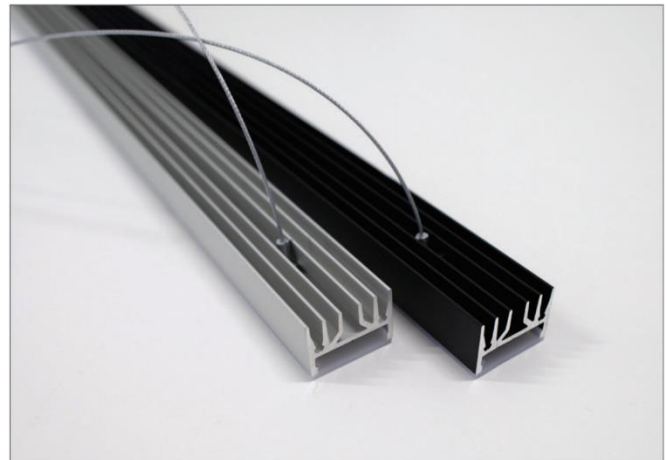

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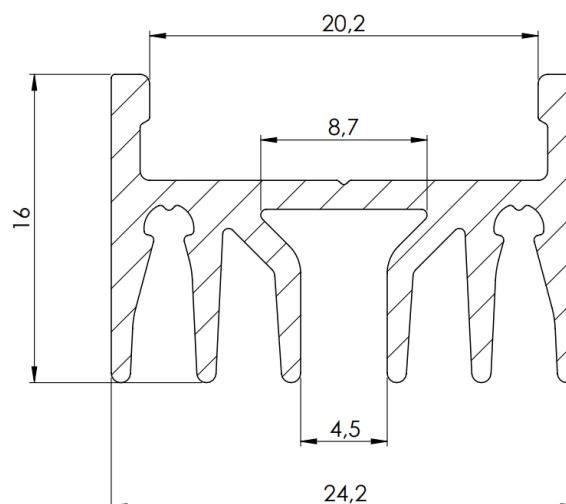
- **Mounting options**

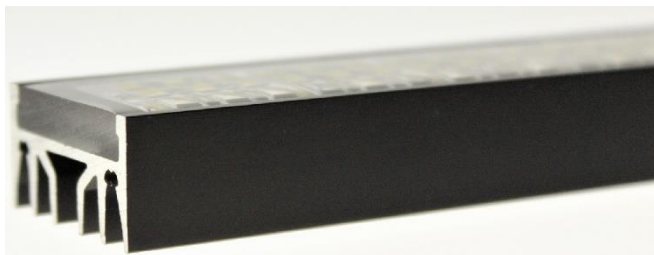1. Mounting end cap   2. Mounting steels

- **Moulding options**
  - o Moulding is used to create an UV-resisting IP68 and IK10 transparant layer to protect the LED modules.