

Specification

luminaire: LED Fiber Source

General

1. The fixture shall be especially designed as indoor light source for fiber optics.
2. The housing of the LED fiber source shall be black anodized aluminum.
3. The LED fiber source consist of a LED-unit base with pins for cooling and a removable bracket and a front cover with M25 swivel.
4. The housing of the luminaire shall have 2 holes for mounting the brackets with screws.
5. On the M10 screws on the side of the housing of the luminaire a black anodized bracket shall be mountable and can be set and fixed on a certain angle.
6. The bracket shall have a mounting hole to fix it on a mounting surface.
7. The front cover shall consist of a black anodized aluminum part and a plastic M25 swivel.
8. The swivel shall be used to fix the fiber optics on the optimal position.
9. The total length of the luminaire shall be 123mm
10. The diameter (without cable entry) shall measure 65mm
11. The luminaire shall weight approximately 400gr.
12. The LED in the luminaire shall use 700mA constant current.
13. The LED shall be provided with a collimator optic to focus the light.
14. The LED shall be available in following colors: 2700K, 3000K, 4000K and 5600K. Standard with CRI 80, higher CRI on request available.
15. The luminaire shall be used with an external 700mA LED driver and power supply.
16. It shall have a power consumption of max. 12W.
17. The LED fiber source shall have a IP rating of 20.
18. The luminaire shall have a Omerin 2x0,25mm cable. The red inner conductor has positive polarity, the black inner conductor is negative.
19. The luminaire shall be mountable on all kind on non combustible materials, taken in consideration that the module can have a Tc of approx. 30 °C higher as ambient temperature and ensuring sufficient ventilation around the led module.
20. The luminaire shall be fully compliant with following harmonized standards:
Immunity according to:
 - EN 61547:2009 (General EMC immunity requirements lighting eq.)
 - EN 61000-4-1:2006 (General immunity testing techniques)
 - EN 61000-4-2:2008 (ESD immunity test)
 - EN 61000-4-3:2006 + A1:2007 (Radiated immunity test)
 - EN 61000-4-4:2004 (Fast transients and burst immunity)
 - EN 61000-4-5:2005 (Surge immunity test)
 - EN 61000-4-6:2008 (Conducted immunity test)
 - EN 61000-4-8:1993 (Magnetic field immunity test)
 - EN 61000-4-11:2004 (Voltage variations immunity test)
 - EN 61000-6-1:2005 (Generic standards for immunity)



Emission according to:

- EN 61000-3-2:2005+A1:2008+A2:2009 (Harmonics emission test<16A)
- EN 61000-3-3:2008 (Flicker+ voltage changes limits<16A)
- EN 55015:2006+A2:2009 (Conducted + radiated emission lighting equipment)

21. The luminaire shall be fully compliant with following harmonized standards:

- EN 60598-1: general requirements of lighting equipment.