

# Specification

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*luminaire* : StarGuide Maxi 24vDC

## *Appearance*

1. The LED luminaire shall be designed for outdoor lighting. It shall be especially designed to integrate in a tube profile. The luminaire can be tailor made to the dimensions of the tube.
2. The housing of the luminaire shall be neutral anodized aluminum, milled out of one piece.
3. The luminaire shall have 2 M5 setscrews for mounting.
4. The housing of the luminaire and the position of the screws shall be designed to fit the curve of the tube.
5. The luminaire shall have a round glass or polycarbonate front with a maximum diameter of 28mm.
6. The screw-thread of both screws shall channel trough the housing. The setscrews shall have a maximum distance of 7mm from the border of the aluminum housing. The setscrews shall be made of RVS.
7. The luminaire shall have dimension of 68 x 31 x 25mm.
8. The luminaire shall weigh 0,032 kg in total.

## *General*

9. The luminaire shall have a maximum power consumption of approx.1,5W.
10. The luminaire shall be powered by a voltage of 24vDC.
11. The luminaire is IP67.
12. Each luminaire shall have a standard cable length of 200mm equipped with M12 connector IP67. The module shall be polarity sensitive.
13. The electronic part (step down) of the LED luminaire shall be installed in a milled-out part in the back of the aluminum housing. The electronica is sealed watertight with a resin.
14. This resin shall be epoxy based and heat conductive.
15. The optics of the luminaire shall be protected by semi-tempered clear glass, sealed watertight to the aluminum housing. Or if IK10 is required, the front can be polycarbonate.
16. Fixing the luminaire shall be possible by clamping the 2 setscrews in the tube, without making holes in the tube.
17. The luminaire shall be used with a dedicated power supply.
18. The luminaire shall be able to connect in groups up to 50 modules depending on the chosen power supply. All modules shall be connected parallel.
19. Custom made cable looms shall be provided for the installation of the setup.
20. The LED of the luminaire shall be available in following colors:
  - 2700K, 3000K, 4000K, 6000K



22. The luminaire shall be available with following light beams:
- Hard spot 11°
  - Smoot spot 15°
  - Medium 30°
  - Wide 50°
  - Asymmetrical 34° x 18°
23. 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)

24. The luminaire shall be fully compliant with following harmonized standards EN 60598:
- SELV class III
  - Power supply-cord type Z, no removal, without permanent damage of the unit.
  - IP67 for the StarGuide Maxi led-unit
  - IK06 for the StarGuide Maxi led-unit with glass
  - IK10 for the StarGuide Maxi led-unit with polycarbonate.