

Specifications for Ceiling Mounted Double Dome LED OT light

1. The ceiling mounted double dome operating light must be designed for the use in high demanding surgical procedure. State of the art LED bulbs should be used to ensure a low energy consumption and a long service life.
2. Must have excellent Shadow reduction capability.
3. Outer handles at the light head should be provided to allow for non-sterile positioning.
4. Light head must be designed with smooth transitions and surfaces, without slots, gaps or exposed screwing to ensure fast and effective cleaning.
5. The light head with streamlined shape is favorable within laminar flow. The light head must be resistant to disinfectant.
6. For sterile positioning an ergonomic, exchangeable and centrally positioned sterile handle within the light head should be provided.
7. All main joints of surgical light must be provided with unlimited rotation (360°).
8. Color temperature should be homogenous at all illumination intensity.
9. The dome and suspension should be sealed dust proof. There should be a central, exchangeable, sterilizable handle for sterile positioning of the light.
10. Light must have both US FDA & European CE certification
11. The surgical light should be complete with all components for ceiling mount and electrical feed-in, incl. finalized installation.
12. Technical data for main dome:- 1nos:

a) Central illumination intensity E _c :	Minimum 160000 lux
b) Adjusting the illumination intensity:	50000 to 160000 lux
c) Light field diameter at a distance of 1m should be in the range:	170 mm to 250 mm
d) Depth of illumination L1+ L2 should be in the range:	Not less than 1200 mm
e) Average color rendering index(CRI);	95 approximately
f) Color rendering index R9 (red);	93 approximately
g) Color temperature should equal to or more than:	5000K

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- h) Ambient light mode (Endolight): 300 lux
- i) Adjusting the illumination intensity: 25% to 100%
- j) Minimum number of LEDs: 60 units
- k) Minimum service life LED: 30000 hours
- l) Replacement of LED bulbs: possible
- m) LED with individual lens reflector system
- n) Diameter of light bulb: Not more than 650mm

13. Technical data for satellite dome – 1nos.

- a) Central illumination intensity Ec: 120000 lux
- b) Adjusting the illumination intensity: 50000 to 120000 lux
- c) Light field diameter at a distance of 1m should be in the range: 170 mm to 250 mm
- d) Depth of illumination L1+L2 should be in the range: Not less than 1200 mm
- e) Average color rendering index (CRI): 95 approximately
- f) Color rendering index R9 (red): 93 approximately
- g) Ambient light mode (Endolight): 300 lux
- h) Adjusting the illumination intensity: 25% to 100%
- i) LED with individual lense reflecting system:
- j) Color temperature should equal to or more than: 5000k
- k) Minimum number of LEDs: 40 units
- l) Minimum service life LED bulbs: 30,000 hours
- m) Replacement of LED bulbs: possible
- n) Diameter of light head: Not more than 650 mm

14. Scope of Supply:

- a) Main Dome – 1no.
- b) Satellite Dome – 1no.
- c) Sterilizable handle – 4 nos.(2nos for each dome)
- d) Arms for both the domes.

15. **Warranty:** 5 years from the date of installation.

16. 1KVA servo controlled stabilizer/UPS with 30 minutes backup need to be supplied along with lights.

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