

SOTR FOR LED BASED LIGHT FITTINGS

1. LED based Light Fittings

- (a) The LED based Light Fittings, list placed below Quantity–5 Nos. for each type are to be design, manufactured and tested as per SOTR for EED-50-33. The operating supply available on board is 230V, 50 Hz, Single phase (both phases) with insulated neutral i.e.no neutral available on board.
- (b) The light absorption for Opal/Red shade should be as indicated in relevant applicable drawing and for clear shade light absorption should not be more than 20%. The light absorption test details are to be included in QAP to conform the manufacture as per applicable specifications.
- (c) The Light fittings should be able operate satisfactorily in the marine seaway and environment conditions

2. Environmental & Emi/Emc Type Tests

The Light Fittings, one from each type is to be subjected for Environmental Type Testing, if not tested earlier as per SOTR for EED-50-33. The Light Fittings are to be supplied only after conduction of successful Type Tests, duly incorporating type test observations, if any, on balances Light Fittings also.

3. EMI/EMC Specification

Light Fittings should conform to EMI/EMC specification MIL-STD-461E as per SOTR for EED-50-33. The applicable EMI/EMC tests are to be carried on one from each type_of the Light Fittings in order to conform the same. The Light Fittings are to be supplied duly incorporating EMI/EMC test observations, if any.

S.No	Description
1	WT Pendant Light (LED Base) 12W LED with Semi Milky Diffuser (Total power Consumption should not be more than 15watts)
2	LED Tube Light 24W LED with Opal diffuser-Non-Panelled (Total power Consumption should not be more than 30 watts. The centre to centre fixing/ installation distance for should be 420mm)
3	WT Pendant Light (LED Base) 1W LED with Red Diffuser (Total power Consumption should not be more than 3 watts)
4	Flush Mounted LED Light Opal Shade 30 Watts (4x6W LED):- Operating Voltage range 110V to 230V, 50 Hz, 1 Phase (both phases) with insulated neutral or 24 V DC. Light Fitting body should be fabricated from CRCA Zink Yellow Passivation and RAL 9010 epoxy powder coated surface finish with power supply looping facility. The CRCA thickness should be 1 mm thick. The diffuser should be Opal shade diamond structure. Application – General Lighting in Deckhead Panelled Compts
5	Flush Mounted LED Light Blue Shade 30 Watts (4x6W LED):- Operating Voltage range 110V to 230V, 50 Hz, 1 Phase (both phases) with insulated neutral or 24 V DC. Light Fitting body should be fabricated from CRCA Zink Yellow Passivation and RAL 9010 epoxy powder coated surface finish with power supply looping facility. The CRCA thickness should be 1 mm thick. The diffuser should be Blue shade diamond structure. Application – OP s Room

