

## Aircraft Lighting System

, two type

→ Exterior

→ ~~Interior~~

→ position light / Navigation

→ Landing light.

→ taxi light

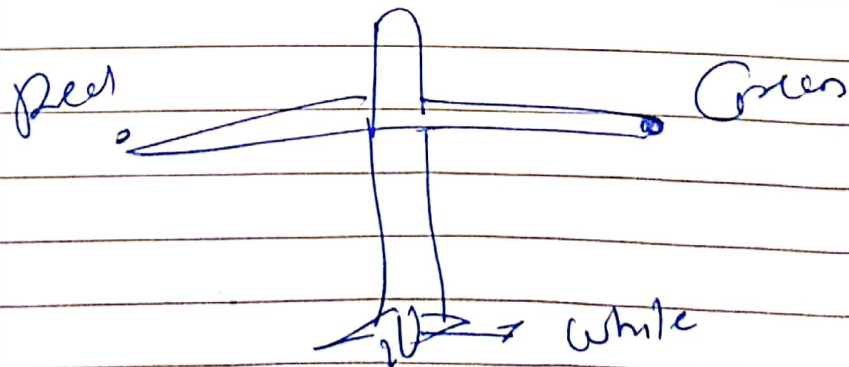
→ anti collision light.

wing inspection light

1) Navigation Light / position

→ All use Night time

→ consist of one Red, one green, one light.



→ Green at left tip of wing

→ Red at right tip of wing

white - on vertical stabilizer

three called navigation light.

→ flashing light

② Anti collision light.

→ consist of one or more

→ installed on top of the fuselage or top tail.

→ rotating beam light

→ large aircraft have two anti collision lights one above & below of the fuselage

→ by having two lights rotated by electric motor.

→ rotary mirror, 10000 rpm

→ useful for safety lights used to warn other aircraft

③ white strobe light

- > Kind of antireflecting
- > mounted on wing tip
- > used xenon filled tubes
- it is extremely bright flash



R-0

⊙ landing lights - C

→ used during night landing.

> installed at beach or way close to sea



Some aircraft landing light is some area use taxi light.

> halogen, high pressure xenon lamp

## ① Taxi Light

— used while taxiing or towing, or in hanger area.

→ installed with oblique angle

→

## ② Wing ice inspection light.

→ installed on leading on wing

→

## Interior Light

### ① Flight deck / control

### Cabin Lighting

→ used in local lighting panel, instrument & control

panel, instrument & control

① passenger cabin

→ used in passenger compartment.

→ AC power used

→ Threshold, doorway

→ Galleys, Lavatories

② Cargo Compartment lights

→ Dome light

→ Flood light

→ explains profile

③ Emergency light

is used to illuminate escape route for the passenger & crew

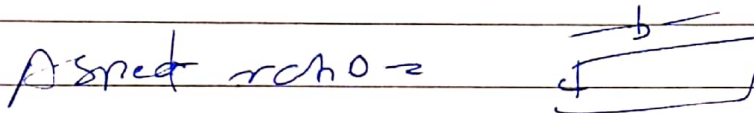
during failure.

→ on floor

It illuminates the entire exit door.

✓ fitness ratio =  $\frac{c}{t}$

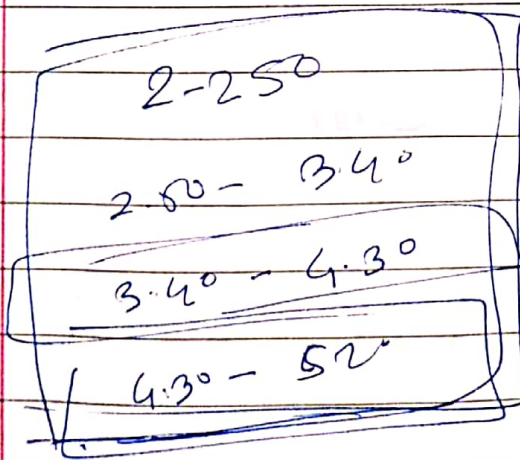
high to low - human - low to high - human



✓ =  $\frac{b}{t}$

high to low - human

mean across are average chord  
 shape of arches length of mass & time



2. - 2.50

from

