

K.S.RANGASAMY COLLEGE OF TECHNOLOGY, TIRUCHENGODE - 637 215

(An Autonomous Institution, Affiliated to Anna University, Chennai)

Department of Electrical and Electronics Engineering

Subject : 50 EE E45 – Electrical Energy Utilization, Conservation and Auditing
Year / Sem : IV / VII
Department : Electrical and Electronics Engineering
Activity : Role Play
Date of Activity : 17.08.2022
Topic : Factory Hall Lighting



Summary

- Industrial lighting plays a major role to maintain employee mindset to work efficiently.
- Hall lighting is used for safety purpose and it is cost and energy savings.
- LUX: It calculates the intensity of the light falls on the surface like floor or walls.
- Mercury vapour lamps needs a starting devices like capacitor, whereas LED does not require starting devices.
- The common five types of hall lightings are:
 1. Halogen lamps
 2. Incandescent lamps
 3. Fluorescent lamp
 4. Compact-Fluorescent lamp
 5. Light Emitting Diode.
- The Cover around the light must be chosen widely so that the light spread to the distance where it can be efficiently used.
- The UFO lights are used to spot a particular place and it is in rounded shape and designed to be used on ceiling between 20-45 feet tall.
- In large scale industries, the LUX range of light varies from 200 – 300 LUX.
- The illumination should be adequate on the working plane and distribution of light should be good.
- The light should be made uniform and glare less as far as possible.

Course Instructor

M.Dhanapal/AP/EE