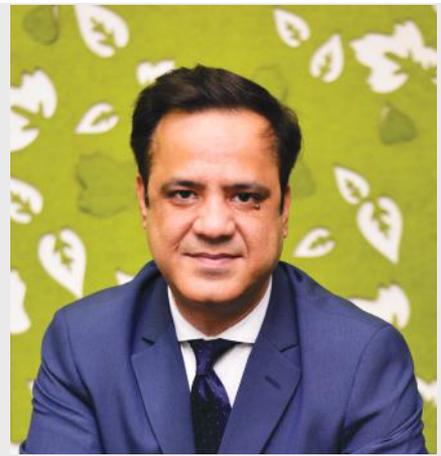


# Emerging Lighting Trends



*“Artificial Intelligence (AI) is the way-forward for the Industry. AI is developing at a very fast pace and influencing multiple industries and technologies. The lighting systems of the future will use AI to varying extents and in different formats. These includes wireless solution, intelligent solutions and the use of sensors in commercial spaces is predicted to grow significantly and as the data gathered moves into cloud-based platforms, learning and related activity will develop in several areas e.g. utilising presence sensor data from a lighting system to control room temperature, mood control, emergency efficiency etc”.*

*-Rahul Bhat, Managing Director, Cherry Hill Interiors*



**T**he working environment is changing at a fast pace, with an increased awareness of employee well-being. Apart from the profile and pay cheque, employees are also paying attention to the physical spaces. Innovation is driving the work place. Leading companies across the globe, have enviable campuses that make the

traditional cubicle farm look positively prehistoric.

In the current scenario, office lighting design plays a crucial role. In the modern workplace, greater productivity can be achieved through smart and flexible implementation of lighting, which works in conjunction with the overall atmosphere of the office. It can help

stimulate individual creative, productive and social endeavours. Companies are committed to create an experience rather than a routine workplace.

Innovative lighting solutions, is one of the important factors that help in building healthy work environment, which in turn, promotes employee engagement, well-being and productivity. Employee



controlled lighting and lighting solutions tailored to the needs of employee have considerable potential for increasing employee's work satisfaction and enhancing retention. Lighting controls help to adjust colour and light levels. This is all possible with the latest technology.

These are few emerging trends in the field of lighting:

- a. **Smart Lighting Control Solutions** & lighting schemes which will save 50-60% of electrical consumption. This includes features like day-light harvesting, occupancy sensing etc. With energy compliances and green building, smart lighting control solutions are favourite of many corporates.
- b. **Tunability** - Human centric lighting which has various features sensitised towards increasing workforce energy, productivity, comfort in the office environment. This increases the energy level of the employees, they remain more alert and feel less fatigued at the end of the work period. It also increases the comfort by creating more variation in the office, by activating brightness and relaxing warmth, will offer sense of well-being and satisfaction.
- c. **POE (Power of Ethernet) based lighting**- These are driver-less fixtures connected via CAT based cables and forming part of the IT network. This will eliminate use of electrical wires making the project intelligent, efficient and internet-enabled. This improves serviceability, ensure scalability & system can easily integrate with other systems like HVAC, employee mobile devices, etc in future.

The POE based lighting system, is scalable and the technology can be upgraded to accommodate future needs. The system can be easily integrated with other systems like HVAC, employee mobile devices etc in future.

The best part of POE based lighting is its serviceability. There is no driver dependency, making it easier to service and also has a

potential to remotely manage the luminaire like any other IT device.

- d. **Constant Light output** –
  - No over installed luminance
  - Reduced system power over lifetime of luminaire
- e. **Incorporating Lighting Asset Management tool** – The Lighting Asset Management tool controls the entire lighting system on one screen. The system performance can be easily monitored. Not only this, the tool also helps to manage scheduling and generates reports.
- f. **Clutter-Free Lighting Solutions**- Previously, the lighting solutions involved a lot of wires and switches. All of this have been replaced by wireless lightings and touch screens. They blend beautifully into the office walls, rendering it with high level of aesthetics.
- g. **Extensive use of LED**- There is an increased usage of hidden LED fixtures that wrap around a portal to form a slice of light. Lighting enhances spatial awareness and calls attention to the right things. Architectural lighting is used to generate a combination of elements of design, engineering and physics, to produce clear physiological and psychological effects. ▲



**Rahul Bhat,**  
**Managing Director,**  
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*Cherry Hill Interiors is a leading company in the space of corporate interiors and has an extensive experience in providing effective and trending lighting solutions to its clients as part of Interiors/design-build projects. From simple wall-mounted to comprehensive lighting management software systems, we work with our partners to offers the right control solution for all of the Client's lighting needs. We endeavour to provide best illumination experiences, maximise energy savings & efficiency, and offer value beyond illumination to achieve the LEED green building certification.*