Australian Institute of Architects | Refuel

1 Formal CPD Point

CPD LIVE

Free CPD education online

This CPD seminar entitles you to 1 formal CPD point. Please be aware you are required to manage your own CPD records. We will provide you with your participation certificate and CPD evaluation based on our attendance records post event and your completion of the below questionnaire.

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The below answer sheet is for your own self-assessment.
Please keep your completed questionnaires and answers on file for your record.
These do not need to be sent to the AIA or to CPD Live. CPD-Live will send you a Refuel certificate.

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WHAT'S NEW IN LIGHTING – PERFORMANCE, SUSTAINABILITY & MORE

Proudly supported by lightculture INSPIRED LIGHT

1) List the key criteria by which lighting systems can be evaluated?

Beyond aesthetic considerations and illumination, factors like age-resistance, energy efficiency, colour, corrosion protection, visual comfort, light spill, and durability should be considered.

2) Since their introduction, what light sources have LEDs typically replaced?

Light-emitting diode light bulbs (LEDs) have replaced a wide range of light sources such as metal halide, compact fluorescent, halogen, and incandescent.

3) List the ways in which LEDs can be considered sustainable?

LED bulbs use the least amount of electricity of any lighting source, and also have a significantly longer working life than any alternative products.

4) Aside from the use of LEDs, what other aspects of a light fitting can affect a light fittings long term footprint on the environment?

TM-21 lifetime data; optical performance; the use of transformers and other electrical components to improve energy efficiency; the ease of sourcing replacement parts.

5) Define the term 'embodied carbon' and explain how it applies to light fittings?

Embodied carbon refers to all the CO2 emitted during all phases of production, including extraction, transportation, manufacturing, etc. For LEDs, it applies mainly to circuit boards.

6) How can designers help those seeking to use lighting products to their full potential, in terms of both function and environmental impact?

Tips around the notion that less is sometimes more; information about Australian Standards and NCC requirements; explanation around the use of control systems; assistance in terms of LEDs and design.

AACA Competency Codes: 1. Design: Project Briefing 1.2, 1.4 /3. Design: Conceptual Design 3.3 / 4. Design: Schematic Design 4.1, 4.2, 4.3, 4.7 / 5. Documentation: Detailed Design 5.5