



ILCAM3

Illuminance Power Line Photometer

The ILCAM3 measures the illuminance inside the tunnel to validate the level of lighting and to ensure that is maintained according to the Light Loss Factor (LLF).

Benefits:

- Accurately measures tunnel illuminance within the tunnel bore
- Utilizes Power Line communication (no additional wires in the tunnel)
- Remote monitoring and diagnostics
- Helps reduce energy consumption and carbon footprint
- **CIE** and **IES** approved measurement technology
- Designed specifically for **illuminance monitoring** in road tunnels and underpasses
- Rugged powder-coated stainless-steel construction that withstands corrosive atmospheres and regular tunnel washing
- Simple installation / operation





ILLUMINANCE POWER LINE PHOTOMETER

The **ILCAM3** is a component of Nyx Hemera Technologies' **Tunnel Addressable Lighting Control System (TLACS)**.

The **ILCAM3** measures illuminance levels inside road tunnels and underpass bores to ensure that interior lighting is continuously maintained, providing safe driving conditions.

Illuminance refers to the amount of light that falls on a specific surface or area within the tunnel.



Suggested installation: One ILCAM3 per zone.

OPERATION

The **ILCAM3** utilizes a specially designed, light-sensitive photocell with a spectral response closely matched to that of the human eye. This enables the device to accurately detect changes in tunnel lighting conditions resulting from **Light Loss Factors (LLF)**.

The device continuously measures illuminance levels throughout the tunnel while minimizing directional measurement errors.

The device transmits illuminance data to the **TLACS' Lighting Control Cabinet (LCC)** via **Power Line Communication (PLC)**, utilizing the existing electrical infrastructure.

Power Line Communication (PLC)

By leveraging Power Line Communication, the **ILCAM3** eliminates the need for additional control wiring for monitoring and control. It uses existing power cables, resulting in significant savings in installation time, wiring, connectors, and overall maintenance of the lighting system.

Key Features:

- Measurement technology compliant with **CIE** and **IES** recommendations
- Rugged powder-coated stainless steel
- Silicon photo diode, V filtered for spectral response
- Operating temperature ranges from -13 to 104°F (-25 to 40°C)
- Power Line Communication with LCC (or UDE) for remote diagnostic and configuration
- Scalable illuminance range of 3-55,000 lux
- Accuracy@25 °C: +/- 2%
- Protection rating NEMA 4X, IP66

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Nyx Hemera Technologies

Nyx Hemera Technologies develops and installs smart lighting control systems for infrastructures where energy savings, reduced operating costs, improved safety, optimized operations, and sustainability are essential. The TLACS smart lighting control system has been installed in more than 200 infrastructures around the world over the past 20 years. It is agnostic, making it compatible with any type of luminaire. The company offers a turnkey service ranging from feasibility analysis to after-sales service.

Disclaimer: All of the above information, including drawings, illustrations, and graphic designs, reflects our present understanding, and is to the best of our knowledge. We believe that the data presented is accurate and reliable. Users, however, should independently evaluate the suitability of each product for the desired application. Under no circumstances does this constitute an assurance of any particular quality or performance. Such an assurance is only provided in the context of our product specifications or explicit contractual arrangements. Our liability for these products is set forth in our standard terms and conditions of sale.