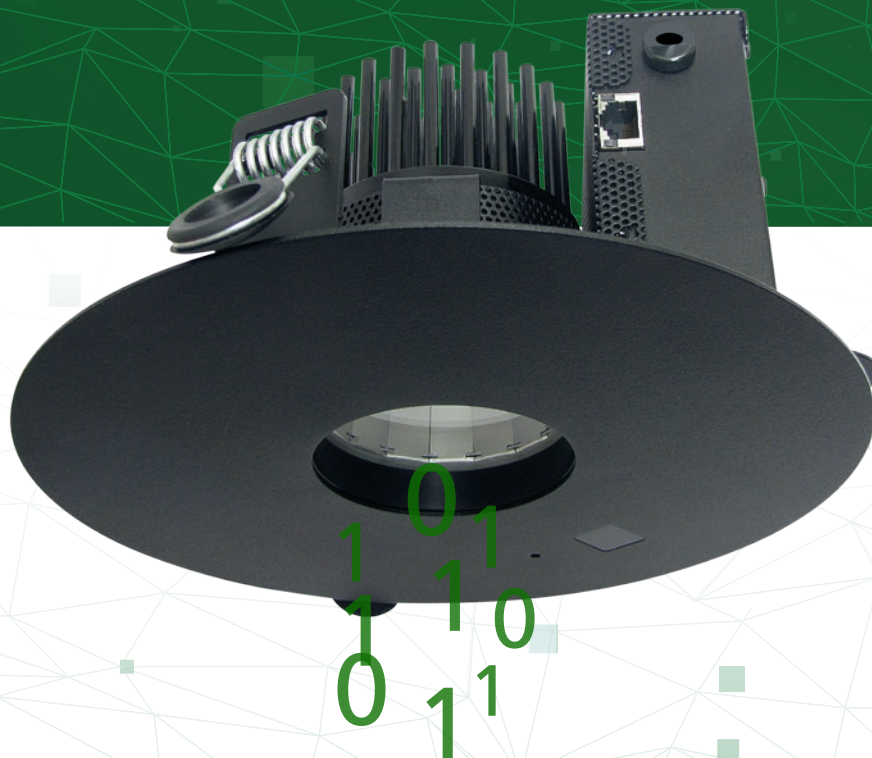


LiFi

by LumEfficient



LUMEFFICIENT ORES LIFI POE by Lucibel

Fixed LED downlight - LiFi access point

+ CONCEPT

Fixed recessed LED LiFi downlight. Recessed reflector and light source for low luminance. Lighting fixture used for the first high-speed LiFi experiment.

+ MATERIAL

99,5% pure black anodised aluminium Pin Block moulded body and protected by perforated steel plate. Trim made of sheet steel and painted with a high-quality powder coating.

+ OPTIC

High-power LED in Neutral White (4000K), CRI 80. High efficiency faceted aluminium reflector. Optical compartment sealed with tempered glass.

+ INSTALLATION

Tool-free recessed mounting using spring system. Safety rope included.

+ POWER SUPPLY

POE (802.3af), POE+ (802.3at) and High Power POE.

LumEfficient
1726c General George
Patton Drive
Brentwood, TN 37027
USA

LumEfficient

DESCRIPTION

The «LiFi by LumEfficient» solution enables the deployment of a full wireless network through a bidirectional line rate up to 42 Mbps. The LumEfficient LiFi system offers high-speed mobile connectivity within a network while supporting multiple access and the «handover».

Each LiFi luminaire can simultaneously serve up to 8 LiFi USB keys. The implemented handover functionality allows users to keep automatically a stable connection from one luminaire to another. The LumEfficient LiFi luminaire is compatible POE / POE+ and UPOE to minimize the necessary wiring for the deployment of a LiFi network infrastructure.

CONNECTIVITY

Bidirectional line rate up to 42 Mbps.
Up to 8 users per LiFi Access Point.
Power supply: POE (802.3af), POE+ (802.3at) and High Power POE.
Inter-LiFi Luminaire supported.
Atto-Cell 2,5m high: 3m diameter circle.
Atto-Cell 3m high: 3,5m diameter circle.
Data Interface: RJ45.
WPA2-Personal and Enterprise (802.1X Radius) authentication mechanism.
Proprietary protocol for power management/dimming.
Compatible EnergyWise.

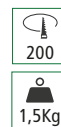
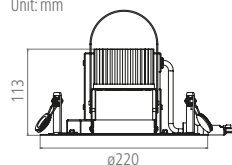
NETWORK CHARACTERISTICS

Data interface	RJ45 Ethernet
IP Addressing Mode	Default DHCP Static IP
Bandwidth (Full Duplex)	Upload : 42 Mb/s Download : 42 Mb/s
Power Over Ethernet	PoE(802.3af), PoE+(802.3at), default High Power PoE
Number of users max. by luminaire	8 users
Authentication mechanism	WPA 2 Personnel WPA 2 Enterprise (Radius 802.1X)
Handover between luminaire	Supported

For advanced setup, please contact LumEfficient Technical Service.

DIMENSIONS

Unit: mm



OPTICAL DISTRIBUTION

Available in: Wide Flood (66°)



CRI80

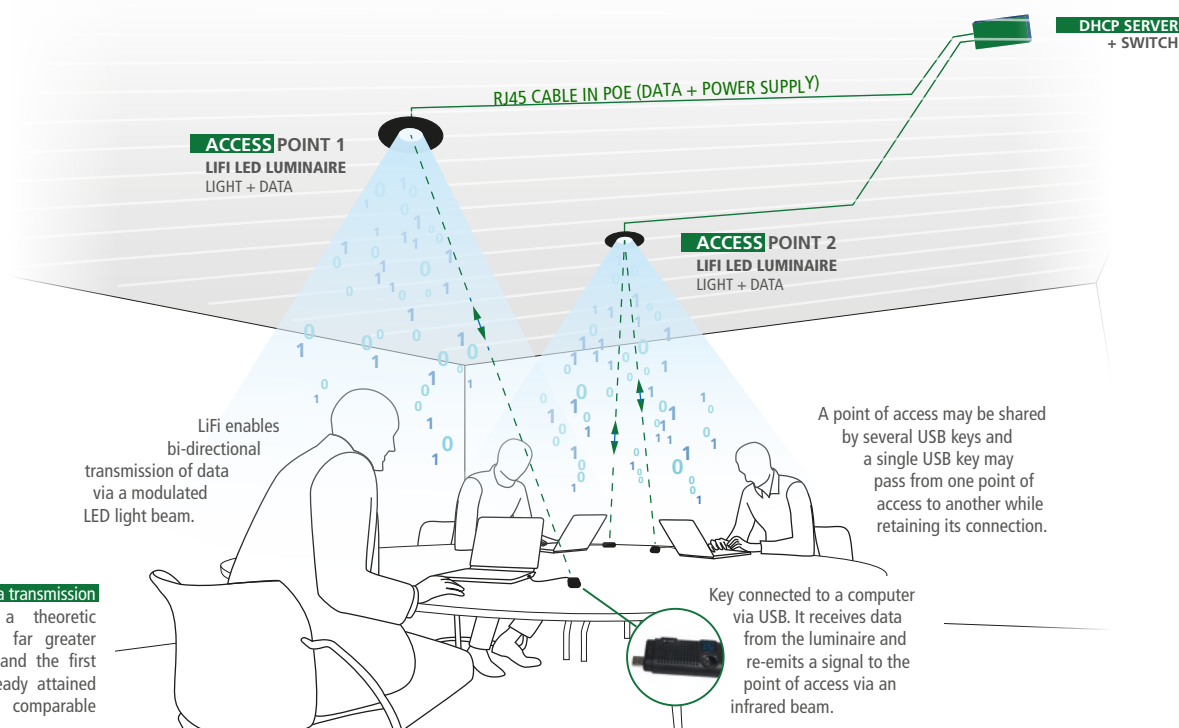
TECHNICAL CHARACTERISTICS

Colour temperature: 4000K (NeutralWhite)
Luminous flux: 1800lm
Max. power consumption: 35W
Lighting efficiency: 50lm/W
Power factor: >0,9
Maximum intensity: 1950cd
Operating life: 50000h (Ta = 25°C)
Operating temperature: -25 ; +45°C



					REFERENCE
RATED POWER	COLOUR TEMP.	OPTICAL DISTRIBUTION	CRI (MINI)	TRIM COLOUR	STANDARD DRIVER
35W	4000K	66°	80	Black	L1011PE
35W	4000K	66°	80	White	L1011PEWH

For specific requests (power, color temperature ...), please contact LumEfficient.



Very High Speed data transmission

The LED offers a theoretic transmission speed far greater than that of WiFi and the first generation has already attained transmission rates comparable with WiFi.