

# LiFi

by Lucibel



## LIFICUP

Fixed LED downlight - LiFi access point

- + CONCEPT**  
Fixed recessed LED LiFi downlight. Recessed reflector and light source for low luminance. High-speed LiFi by Lucibel second generation lighting fixture.
- + MATERIAL**  
Trim made of sheet steel and painted with fine paint. 99,5% pure anodised aluminium heatsink moulded. Opalescent polycarbonate body.
- + OPTIC**  
High-power LED in Neutral White (4000K), CRI 90. High efficiency faceted aluminium reflector. Optical compartment sealed with tempered glass.
- + INSTALLATION**  
Tool-free recessed mounting using spring system. AmortiBump© damping spring system. Safety rope included.
- + POWER SUPPLY**  
Separate power supply, delivered pre-connected ; DALI dimmable (with DC power supply only) or POE+ / UPOE power supply.

LiFi by Lucibel - A Lucibel Group Brand  
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**DESCRIPTION**

The «LiFi by Lucibel» solution enables the deployment of a full wireless network through a bidirectional line rate up to 54 Mbps. The Lucibel 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 16 LiFi USB keys. The implemented handover functionality allows users to keep automatically a stable connection from one luminaire to another.

**CONNECTIVITY**

Bidirectional line rate up to 54 Mbps.  
 Up to 16 users per LiFi Access Point.  
 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.

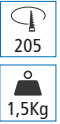
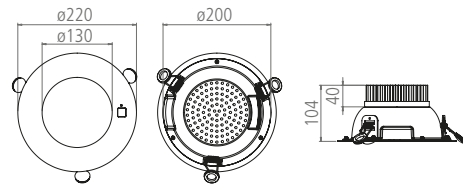
**NETWORK CHARACTERISTICS**

Data interface	RJ45 Ethernet
IP Addressing Mode	Default DHCP
	Static IP
Bandwidth (Full Duplex)	Upload : 54 Mb/s
	Download : 54 Mb/s
Number of users max. by luminaire	16 users
Authentication mechanism	WPA 2 Personnel
	WPA 2 Enterprise (Radius 802.1X)
Handover between luminaire	Supported

For advanced setup, please contact Lucibel Technical Service.

**DIMENSIONS**

Unit: mm



**OPTICAL DISTRIBUTION**

Available in: Wide Flood (76°)



CRI 90

**TECHNICAL CHARACTERISTICS**

Colour temperature: 4000 K (Neutral White)  
 Luminous flux: 1900 lm  
 Power consumption: 30W  
 Lighting efficiency: 63 lm/W  
 Power factor: > 0,9  
 Maximum intensity: 1615 cd  
 Operating life: 50 000 h (Ta = 25°C)  
 Operating temperature: -25 ; +45°C  
 Input voltage: 230VAC / 130mA / 50-60Hz



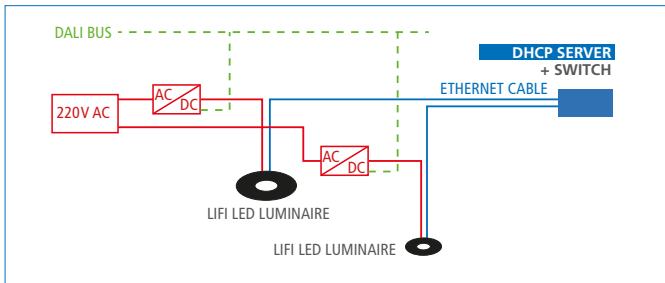
\* with dimmable driver only

RATED POWER	COLOUR TEMP.	LUMINOUS FLUX	OPTICAL DISTRIBUTION	CRI (MINI)	TRIM COLOUR	REFERENCE
						STANDARD DRIVER
30W	1900 lm	4000 K	76°	90	Black	LC840BK
30W	1900 lm	4000 K	76°	90	White	LC840WH

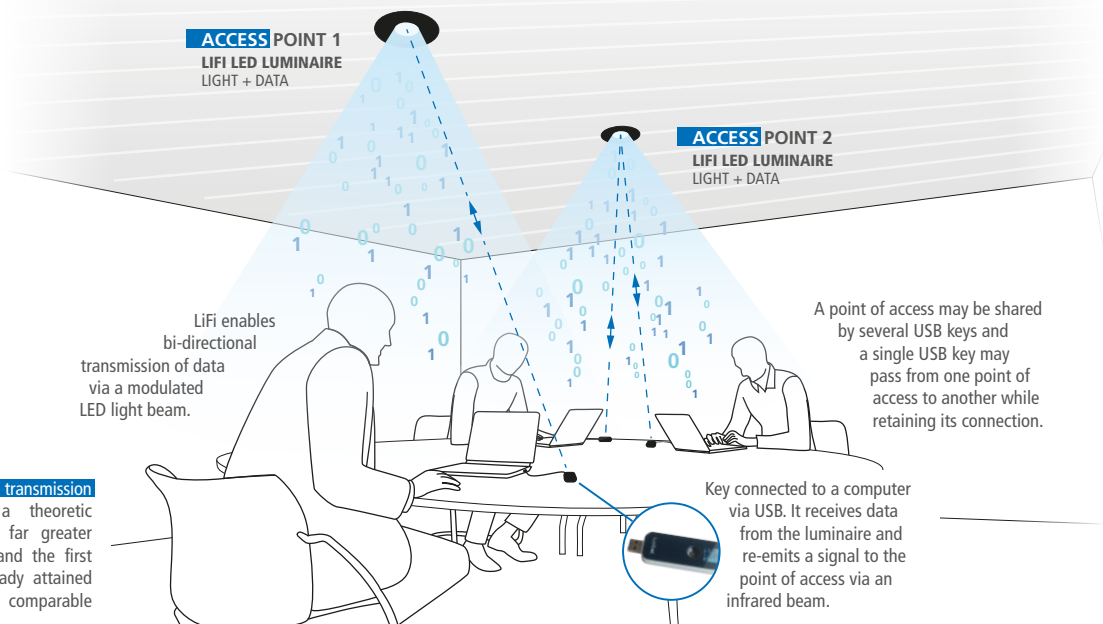
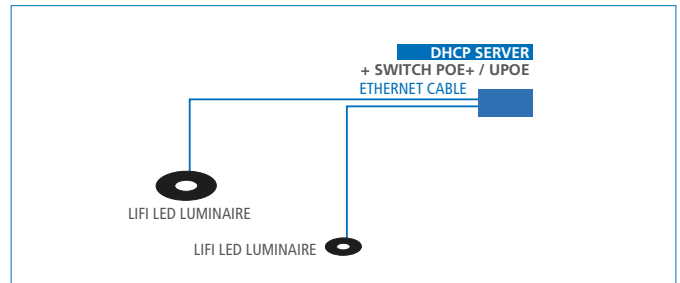
For specific requests (power, color temperature ...), please contact Lucibel.

**CABLING SCHEMATIC**

**220V POWER SUPPLY :**



**POE POWER SUPPLY :**



**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.

LiFi enables bi-directional transmission of data via a modulated LED light beam.

A point of access may be shared by several USB keys and a single USB key may pass from one point of access to another while retaining its connection.

Key connected to a computer via USB. It receives data from the luminaire and re-emits a signal to the point of access via an infrared beam.