



## 360 LIGHT & WLAN MULTIPURPOSE SOLUTION

**SHUFFLE is a connected, modular approach to city hardware - with its plug-and-play rotatable modules that contain pre-certified hardware, it can be configured to suit your specific needs.**

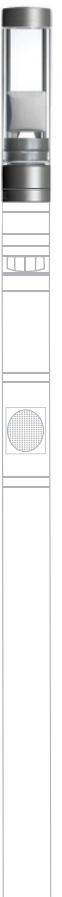
### KEY ADVANTAGES

- > **Seamless integration in the SHUFFLE column**
- > **Numerous lighting configurations**
- > **Remote control lighting through NEMA 7-pin socket**
- > **Easy installation with patented mounting system**
- > **Integrated access points**
- > **Extremely simple WiFi deployment**

The SHUFFLE 360 Light & WLAN is a versatile module that offers an array of highly performing public WiFi options, carefully designed to offer the best possible lighting options and at the same time improve communication and connectivity between citizens.

The versatility of this module continues with the light which provides a connected intelligent LED system with options like LED colour, power, type of optics, control options, electrical class, protector type and so much more. From an integrated control unit to IoT solutions delivered through a standard NEMA 7-pin socket, this module can adapt to any local requirements.

Modules are carefully manufactured in die-cast, high pressure aluminium and clear or frosted protectors can be added to host the technology within. All fasteners are in stainless steel. The housing is covered in the highest graded polyester powder paint supporting a variety of colours.



## 360 LIGHT & WLAN - MULTIPURPOSE | CHARACTERISTICS

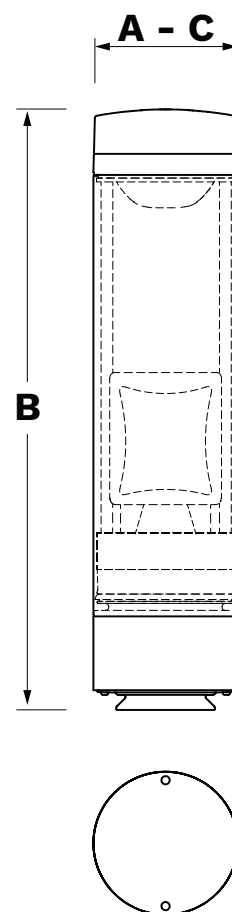
### KEY FEATURES

- > **Lumen package range: 1,600 to 4,500lm**
- > **Back-light control (optional)**
- > **Neutral or warm white LEDs**
- > **Optional internal diffuser or external diffuse protector for enhanced visual comfort**
- > **NEMA 7-pin socket for smart city IoT controller**
- > **Self-forming and self-healing meshed network. Individual access points can connect with each other wirelessly**
- > **Adapts automatically to environmental changes**
- > **Many concurrent users per access point**
- > **Stable connections at higher data rates**
- > **Dividable bandwidth: e.g. to assign a dedicated part to city operators and a restricted bandwidth for the general public**
- > **Unmatched scalability, cloud or locally managed**



### DIMENSIONS AND MOUNTING

AxBxC (mm   inch)	194x815x194   7.6x32x7.6
Weight (kg   lbs)	8   17.6
Aerodynamic resistance (CxS)	0.16
Mounting possibilities	Clamps



## 360 LIGHT & WLAN - MULTIPURPOSE | CHARACTERISTICS

### GENERAL

Recommended installation height	3m to 6.8m   9.8' to 22.3'
Driver included	Yes
CE mark	Yes
ENEC certified	Yes
ROHS compliant	Yes
Testing standard	LM 79-08 (all measurements in ISO17025 accredited laboratory)

### HOUSING AND FINISH

Housing	Aluminum
Optic	PMMA
Protector	Polycarbonate PMMA
Internal diffuser	Polycarbonate
Housing finish	Polyester powder coating
Standard colour	AKZO grey 900 sanded*
Tightness level	IP 66
Impact resistance	IK 10 (polycarbonate) IK 05 (PMMA)

\*any other RAL or AKZO colour upon request

### OPERATING CONDITIONS

Operating temperature range (Ta)	-40°C up to 40°C / -40°F up to 104°F with wind effect*
*Depending on the module configuration. For more details, please contact us.	

### SHUFFLE

SHUFFLE Pole model	2 doors same side   3 doors
SHUFFLE Components	Mains box   Lighting box Beyond light power supply box
	Support plate network Network cable
Position on pole	Always top position

### LIFETIME OF THE LEDS @ TQ 25°C

All configurations	100,000h - L95
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### ELECTRICAL

Electrical class	Class I EU, Class II EU
Nominal voltage	220-240V 50/60Hz
Power factor (at full load)	0.95+
Surge protection options (kV)	10
Electromagnetic compatibility (EMC)	EN 55015 / EN 61000-3-2 / EN 61000-3-3 / EN 61547 / EN 61000-4-2 / EN 61000-4-3 / EN 61000-4-4 / EN 61000-4-5 / EN 61000-4-6 / EN 61000-4-8 / EN 61000-4-11
Control protocol(s)	1-10V, DALI
Control options	Custom Dimming Profile, Remote management
Socket	NEMA 7-pin
Associated control system(s)	Owlet IoT
Sensor	PIR (optional)

### OPTICAL INFORMATION




LED colour temperature	3000K (Warm White 830) 4000K (Neutral White 740)
Colour rendering index (CRI)	>80 (Warm White 830) >70 (Neutral White 740)
Upward Light Output Ratio (ULOR)	<3%*
*ULOR may be different according to the configuration. Please consult us.	

### WLAN MULTIPURPOSE (Access point and Mesh node)

Antenna connection	Embedded antenna
Power supply	802.3af/at(POE)
WiFi frequency	2.4GHz, 5GHz
Peak PHY rates	2.4GHz: 300Mbps 5GHz: 867Mbps
Client capacity	Up to 512 clients per AP
SSID	Up to 31 per AP
WiFi country license	WW* (EU), US (US + CAN)
WiFi mounting	Screws
WiFi norms	AC, a, b, g, n
WiFi operating mode	Access Point, Gateway, Mesh node

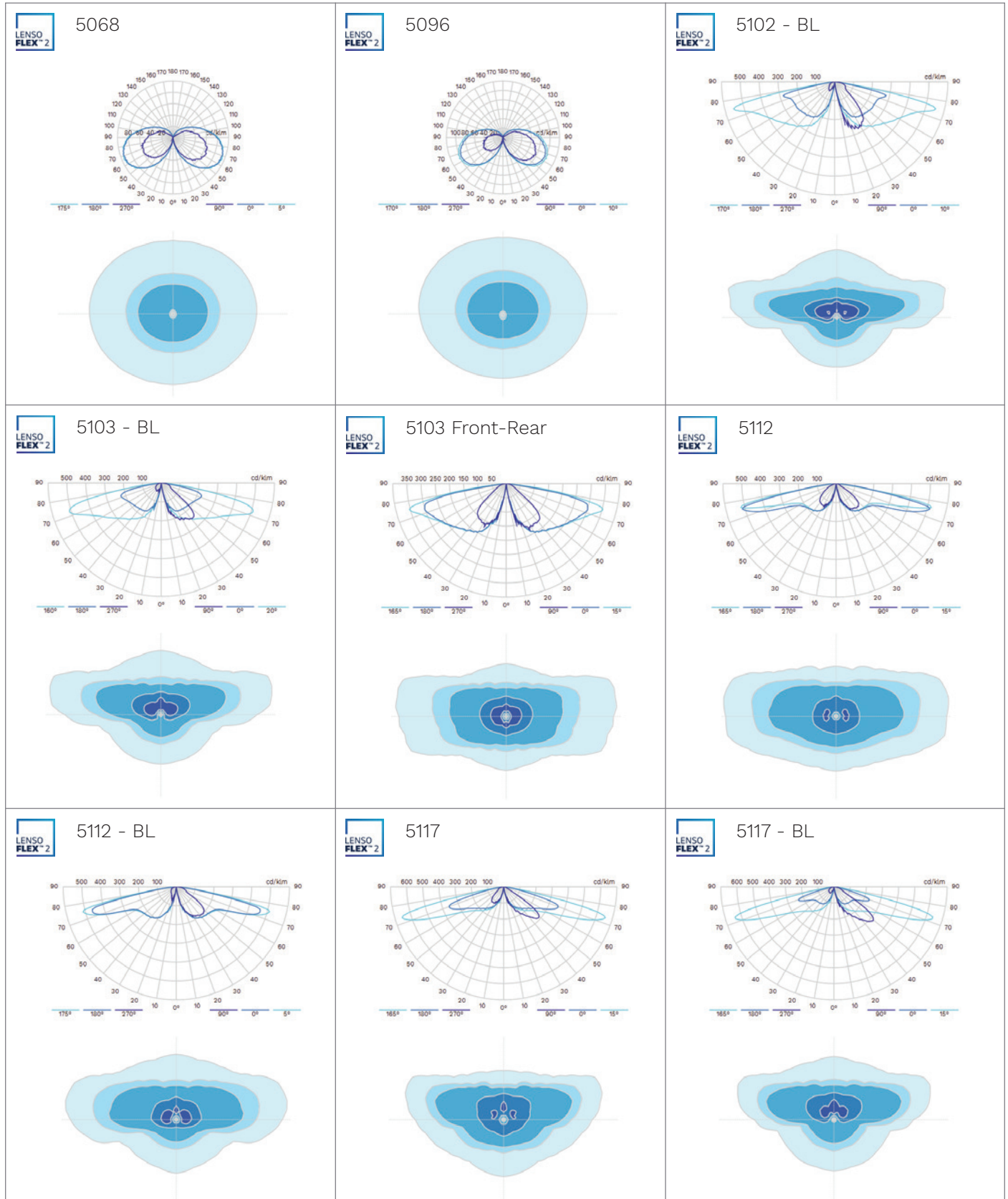
\*Although worldwide, it does not apply to all countries.

360 LIGHT & WLAN - MULTIPURPOSE | PERFORMANCE

Luminaire output flux (lm) Warm White 830					Luminaire output flux (lm) Neutral White 740		Power consumption (W)	Luminaire efficacy (lm/W)	
Luminaire	Number of LEDs	Current (mA)	Min	Max	Min	Max		Up to	Photometry
SHUFFLE 360°	20	350	1700	2500	1900	2800	25.2	124	
	20	500	2300	3400	2600	3900	35.6	123	
	20	700	3000	4400	3500	5100	48	113	

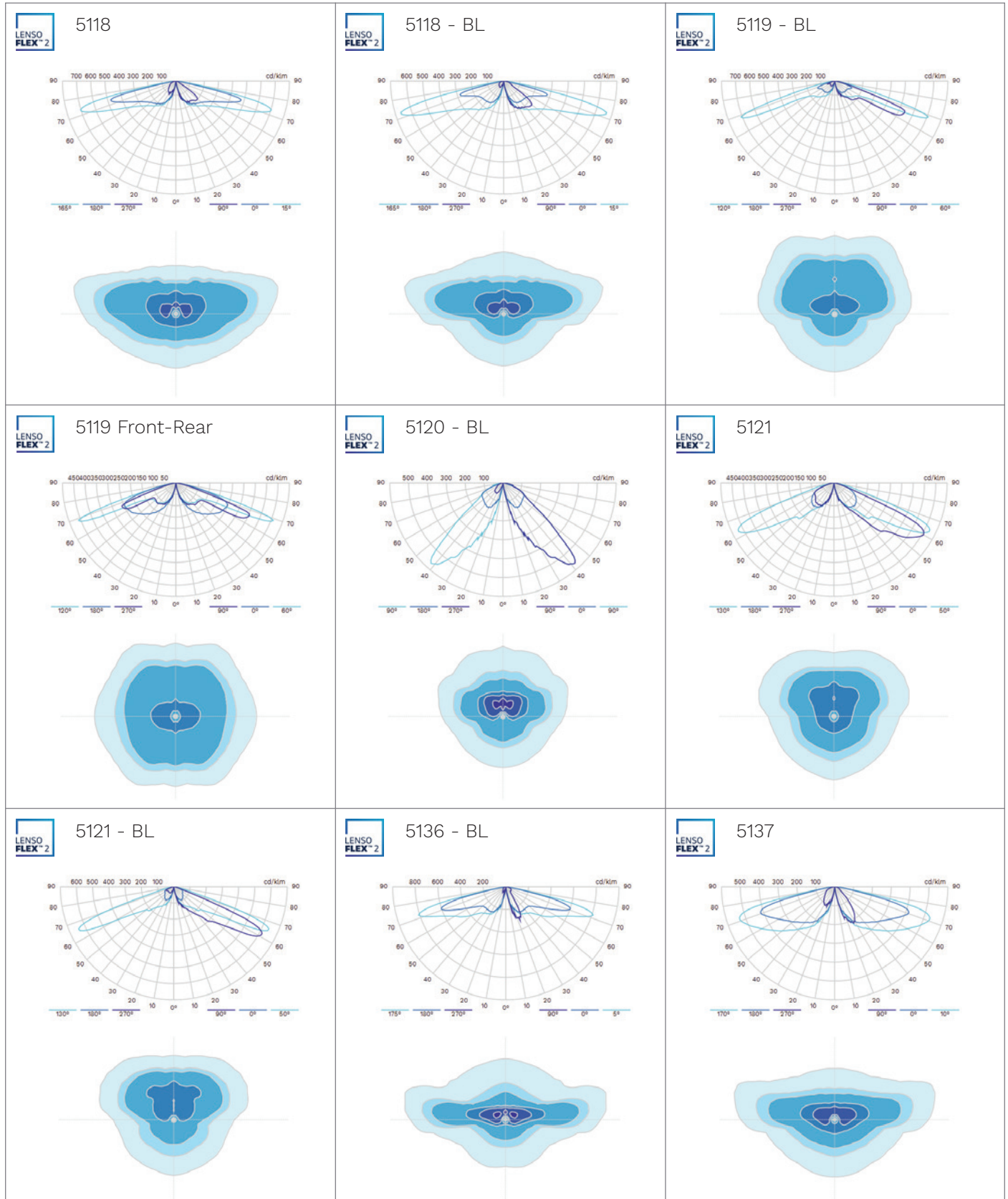
Tolerance on LED flux is ± 7% and on total luminaire power ± 5 %

## 360 LIGHT & WLAN - MULTIPURPOSE | LIGHT DISTRIBUTIONS





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