Schréder
Experts in lightability™

SHUFFLE

SHUFFLE 360 LGT WLAN GEN2

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 7-pin NEMA or Zhaga socket**
- **Easy installation with patented mounting system**
- **Integrated access points**
- **Extremely simple WiFi deployment**

The SHUFFLE 360 LGT WLAN GEN2 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 or Zhaga socket, this module can adapt to any local requirements.

Modules are carefully manufactured in die-cast, high pressure aluminium and clear, semi or totally sanded protectors is 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.

SHUFFLE 360 LGT WLAN GEN2 | CHARACTERISTICS

KEY FEATURES

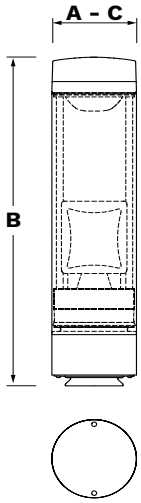
- **Lumen package range: 2,100 to 6,500lm**
- **Back-light control (optional)**
- **French law compliant with G-Limiter option (GL)**
- **Neutral or warm white LEDs**
- **Optional internal diffuser or external diffuse protector for enhanced visual comfort**
- **NEMA 7-pin socket for smart city IoT controller**
- **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**
- **Zhaga-D4i certified**

SHUFFLE POLE AND MODULE INTEGRATION

SHUFFLE pole versions	2 doors same side | 3 doors
SHUFFLE pole components	Mains box | Lighting box Beyond light power supply box
	Support plate network
	Network cable
Module on pole	Always top position

DIMENSIONS AND MOUNTING

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



PROTECTOR AND DIFFUSER OPTIONS

Clear protector | Internal diffuser | Semi-sanded protector | Sanded protector

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SHUFFLE 360 LGT WLAN GEN2 | CHARACTERISTICS

SHUFFLE MODULE	SH36LW2-W0	SH36LW2-W1	SH36LW2-FO SH36LW2-FV
WLAN module brand	**Ubiquiti**	**Cisco-Meraki**	**Ruckus**
Model	**U6-Mesh**	**MR78**	**T350c**
WiFi generation	Wi-Fi 6	Wi-Fi 6	Wi-Fi 6
WiFi standard	802.11ax 802.11ac 802.11n	802.11ax 802.11ac 802.11b/g/n	802.11ax 802.11ac 802.11b/g/n
Antennas (MU-MIMO)	4x4 (5GHz) 2x2 (2.4GHz)	2x2 (5GHz) 2x2 (2.4GHz)	2x2 (5GHz) 2x2 (2.4GHz)
Antenna gain	3dBi (2.4GHz) 5dBi (5GHz)	5.4dBi (2.4GHz) 6dBi (5GHz)	3dBi
Streams	6 spacial streams	4 spacial streams	4 spacial streams
Operating temperature	-30°C to +60°C | -22°F to +140°C	-20°C to +55°C | -4°F to +131°C	-20°C to +65°C | -4°F to +149°C
Ethernet	RJ-45 (10/100/1000BASE-T)	RJ-45 (10/100/1000BASE-T)	RJ-45 (10/100/1000BASE-T)
PoE input	PoE IEEE 802.3af	PoE IEEE 802.3af	PoE IEEE 802.3at
PoE power consumption	Max 13W	Max 15W	Max 13.2W

Access full Ubiquiti U6-Mesh details

Access full Cisco Meraki MR78 details

Access full Ruckus T350c details

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SHUFFLE 360 LGT WLAN GEN2 | CHARACTERISTICS

GENERAL	
Driver included	Yes
CE Mark	Yes
UKCA Certified	Yes
ENEC Certified	Yes
ENEC+ Certified	Yes
UL Mark	Yes for Ruckus (pending for the others)
ROHS Compliant	Yes
Zhaga-D4i Certified	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 06 (PMMA)

*any other RAL or AKZO colour upon request

LIFETIME OF THE LEDS @ TQ 25°C	
All configurations	100,000h - L95

ELECTRICAL	
Electrical class	Class I EU, Class II EU Class 1 US
Nominal voltage	220-240V - 50/60Hz 120-277V - 50/60Hz
Power factor (at full load)	0.95+
Surge protection options (kV)	10
Control protocol(s)	1-10V, DALI
Control options	Custom Dimming Profile, Remote management
Socket	NEMA 7-pin Zhaga
Associated control system(s)	OWLET Nightshift Schréder EXEDRA
Sensor	PIR (optional)

OPTICAL INFORMATION	
LED colour temperature	2700K (Warm White 727) 3000K (warm White 730) 3000K (Warm White 830) 4000K (Neutral White 740)
Color rendering index (CRI)	>70 (Warm White 727) >70 (Warm White 730) >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.
· Meets DarkSky requirements when fitted with LEDs of 3000K or less.

SHUFFLE 360 LGT WLAN GEN2 | PERFORMANCE

	Luminaire output flux (lm) Warm White 727		Luminaire output flux (lm) Warm White 730		Luminaire output flux (lm) Warm White 830		Luminaire output flux (lm) Neutral White 740		Power consumption (W)		Luminaire efficacy (lm/W)	
Number of LEDs	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Up to	Photometry
20	2100	5600	2300	6000	2100	5600	2500	6500	22	44	168	LENSO FLEX 4

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

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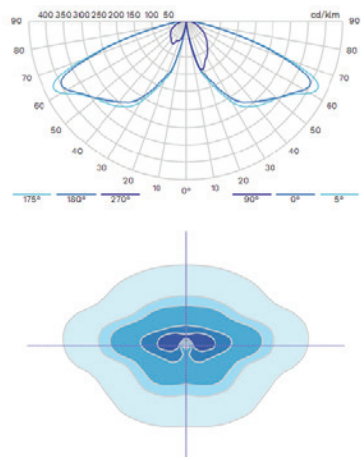
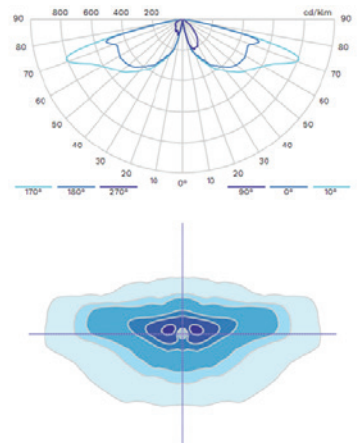
SHUFFLE 360 LGT WLAN GEN2 | LIGHT DISTRIBUTIONS

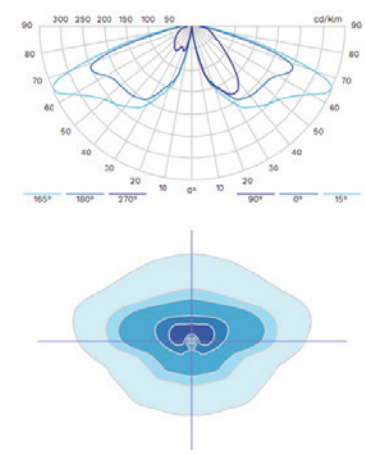
LENSO FLEX°4 5300 Ultra-Narrow



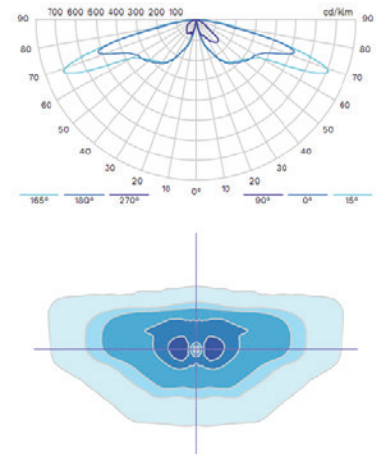
LENSO FLEX°4 5301 Narrow



LENSO FLEX°4 5303 Medium



LENSO FLEX°4 5305 Medium



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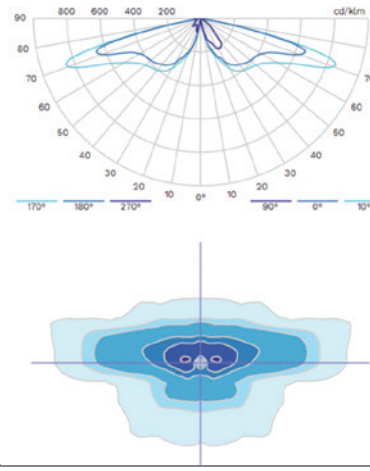

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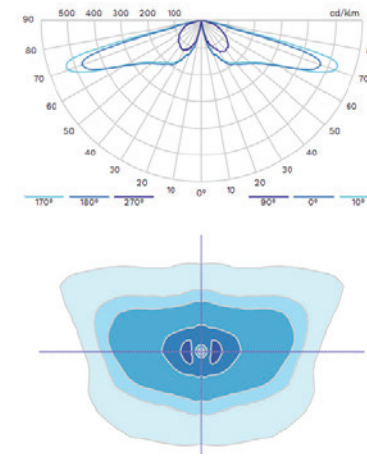
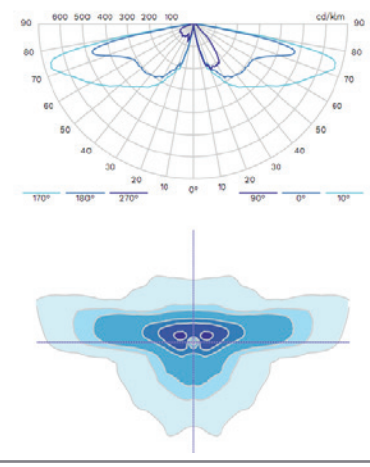
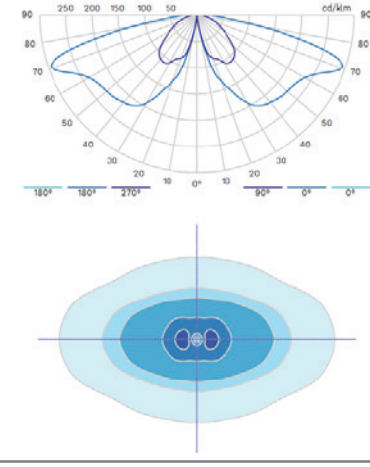


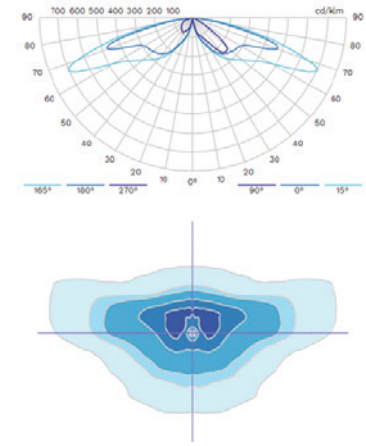
LENSO FLEX°4 5399 Medium



LENSO FLEX°4 50006 Medium Symmetrical



LENSO FLEX°4 5307 Wide



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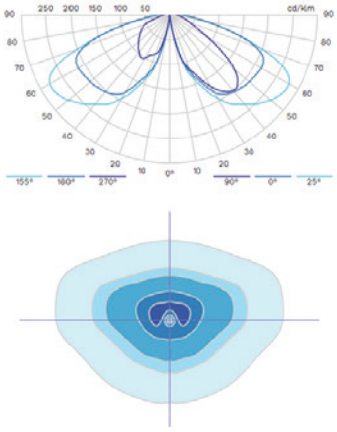
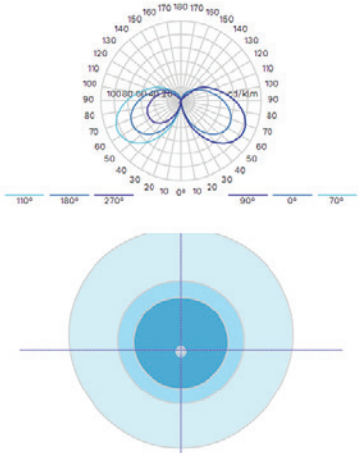
SHUFFLE 360 LGT WLAN GEN2 | LIGHT DISTRIBUTIONS

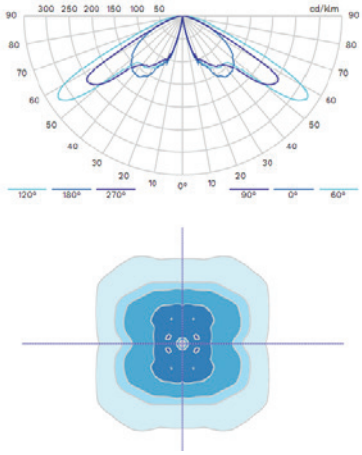
LENSO FLEX°4 5308 Wide



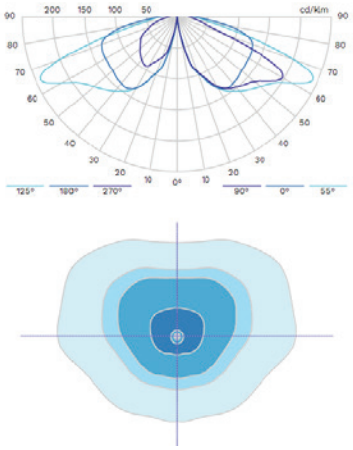
LENSO FLEX°4 5366 Extra-Wide



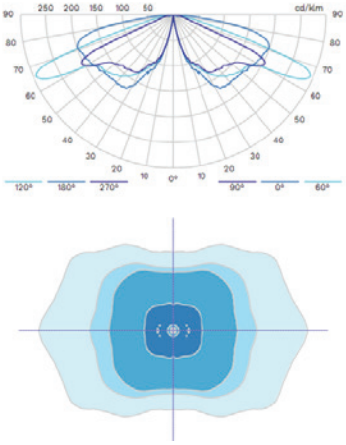
LENSO FLEX°4 50004 Extra-Wide Symmetrical



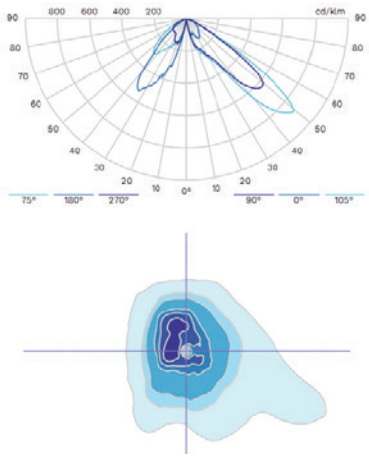
LENSO FLEX°4 5393 Ultra-Wide



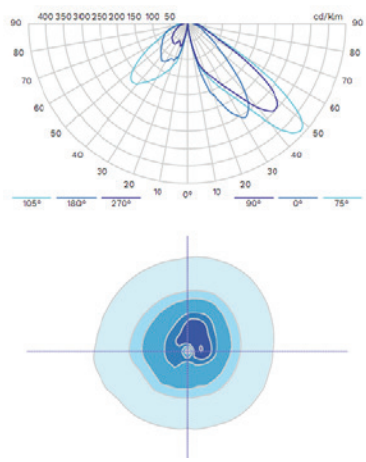
LENSO FLEX°4 50008 Ultra-Wide Symmetrical



LENSO FLEX°4 5370 Zebra Left



LENSO FLEX°4 5369 Zebra Right



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