Schréder
Experts in lightability™

SHUFFLE

360 LIGHT & WLAN CAMPUS

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 performant public WiFi options, carefully designed to offer the best possible lighting options and at the same time improve communication and connectivity between citizens.

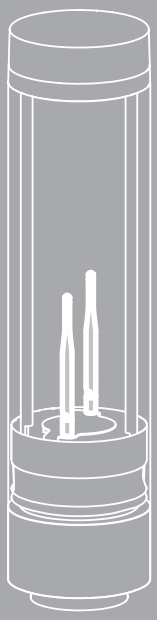
The versatility of this module continues with the light which provides a connected intelligent LED system with options like LED colour, power, type of optics, control options, electrical class, protector type and so much more. From an integrated control unit to IoT solutions delivered through a standard 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 - CAMPUS | CHARACTERISTICS

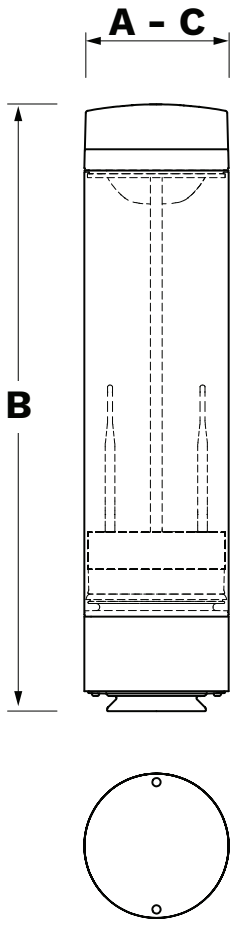
KEY FEATURES

- > **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**
- > **Secure wireless network**
- > **Wired access points**



DIMENSIONS AND MOUNTING

AxBxC (mm | inch)	194x815x194 | 7.6x32x7.6
Weight (kg | lbs)	7.5 | 16.5
Aerodynamic resistance (CxS)	0.16
Mounting possiblilities	Clamps



Copyright © Schréder SA - August 2020. All rights reserved. Specifications are of an indicative nature and subject to change without notice.

360 LIGHT & WLAN - CAMPUS | 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 cables
Position on pole	Always top position

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

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 compatibilty (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 CAMPUS (Access point)	
Antenna connection	Reverse SMA Female
Supply Voltage Range	10 - 36Vdc (24Vdc Typical)
Voltage type	DC
WiFi frequency	2.4GHz, 5GHz
WiFi country license	FCC (US + CAN), ETSI (EU + CHINA)
WiFi mounting	Back DIN rail
WiFi norms	a, b, g, n
Wifi Operating Mode	Access Point, Client Adapter, Repeater
Transmission power	max. 20dBm

Copyright © Schréder SA - August 2020. All rights reserved. Specifications are of an indicative nature and subject to change without notice.

360 LIGHT & WLAN - CAMPUS | PERFORMANCE

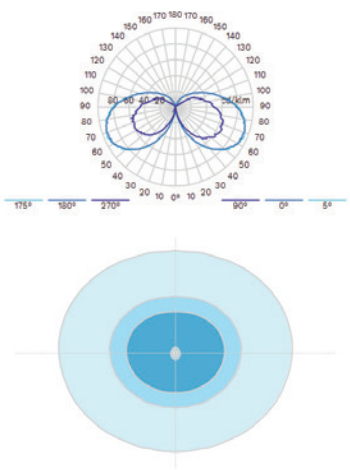
			Luminaire output flux (lm) Warm White 830		Luminaire output flux (lm) Neutral White 740		Power consumption (W)	Luminaire efficacy (lm/W)	
Luminaire	Number of LEDs	Current (mA)	Min	Max	Min	Max		Up to	Photometry
SHUFFLE 360°	20	350	1700	2500	1900	2800	25.2	124	
	20	500	2300	3400	2600	3900	35.6	123	
	20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

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

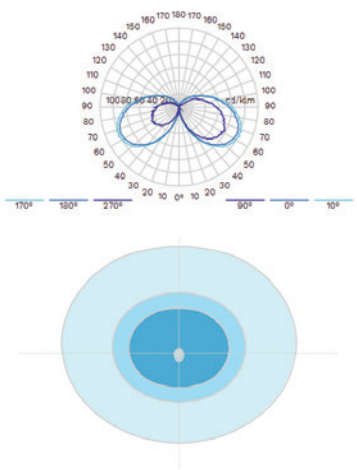
Copyright © Schréder SA - August 2020. All rights reserved. Specifications are of an indicative nature and subject to change without notice.

360 LIGHT & WLAN - CAMPUS | LIGHT DISTRIBUTIONS

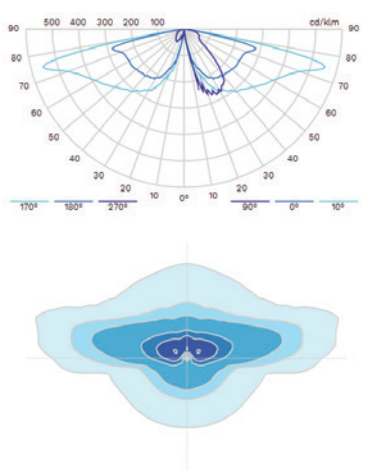
LENSO FLEX™2 5068



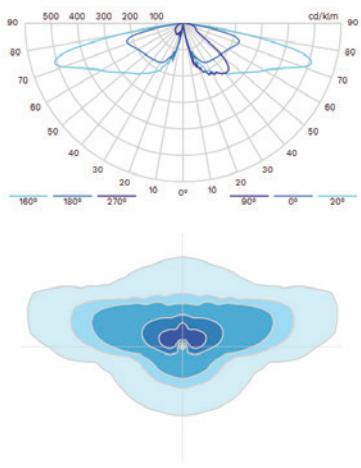
LENSO FLEX™2 5096



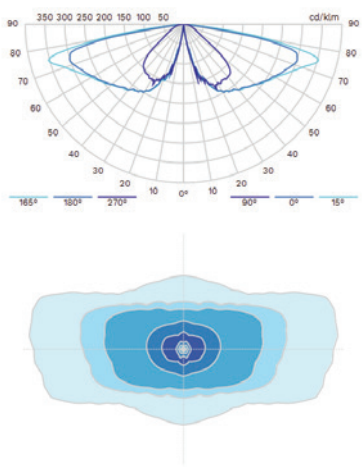
LENSO FLEX™2 5102 - BL



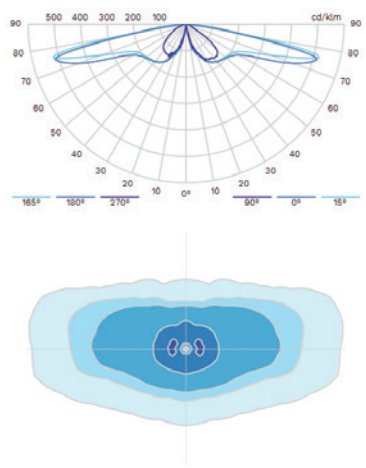
LENSO FLEX™2 5103 - BL



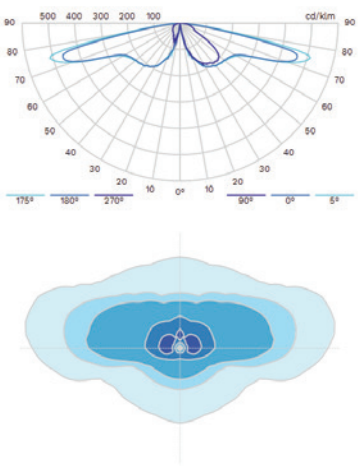
LENSO FLEX™2 5103 Front-Rear



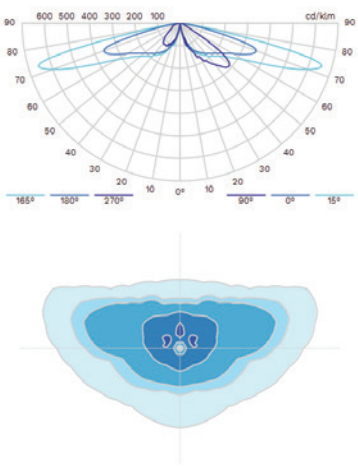
LENSO FLEX™2 5112



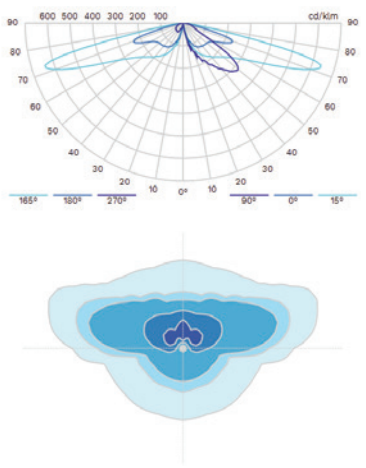
LENSO FLEX™2 5112 - BL



LENSO FLEX™2 5117



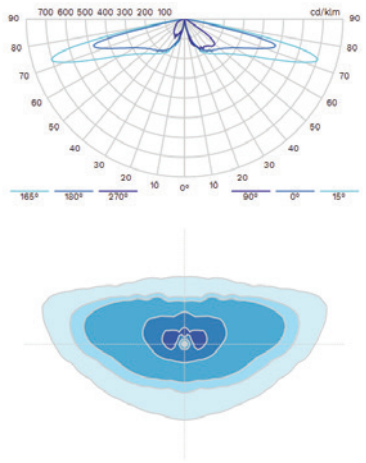
LENSO FLEX™2 5117 - BL



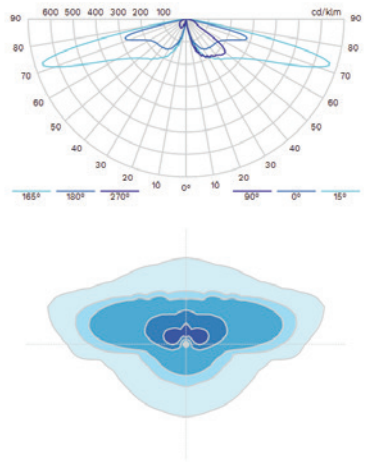
Copyright © Schréder SA - August 2020. All rights reserved. Specifications are of an indicative nature and subject to change without notice.

360 LIGHT & WLAN - CAMPUS | LIGHT DISTRIBUTIONS

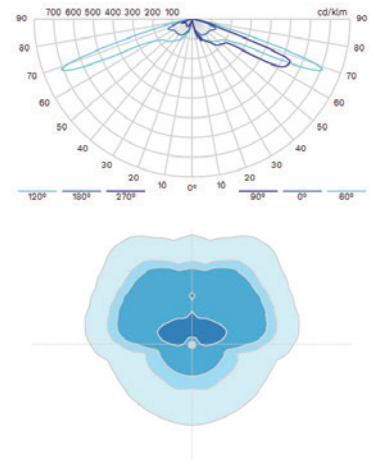
5118



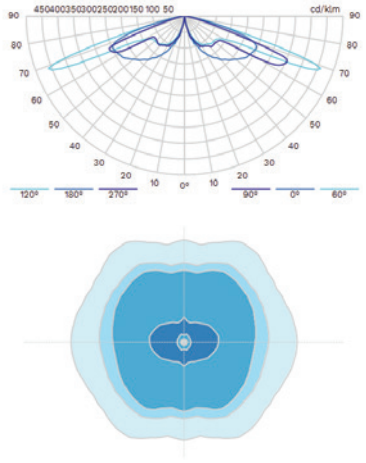
5118 - BL



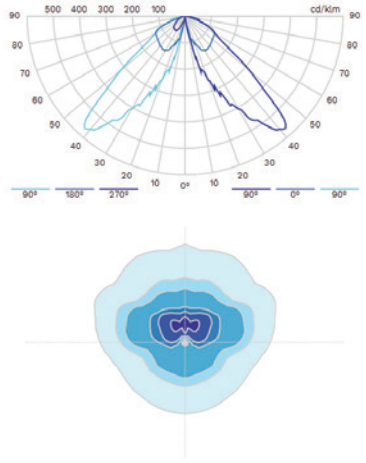
5119 - BL



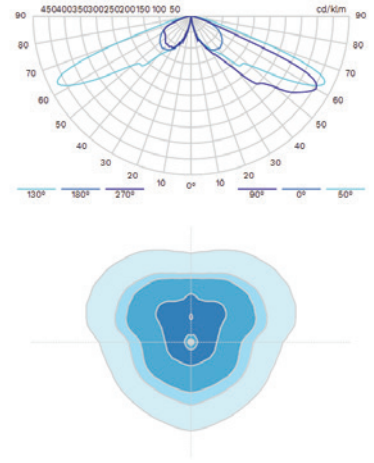
5119 Front-Rear



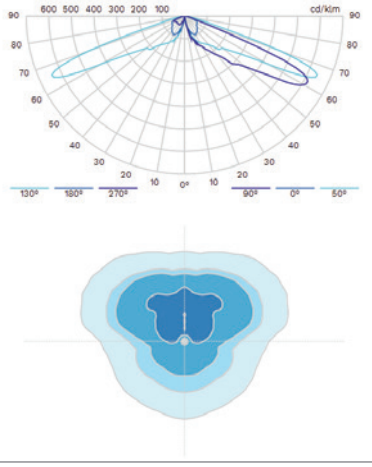
5120 - BL



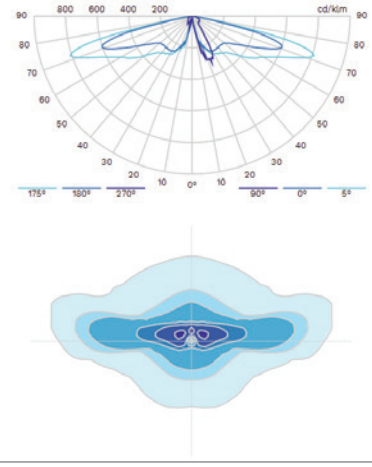
5121



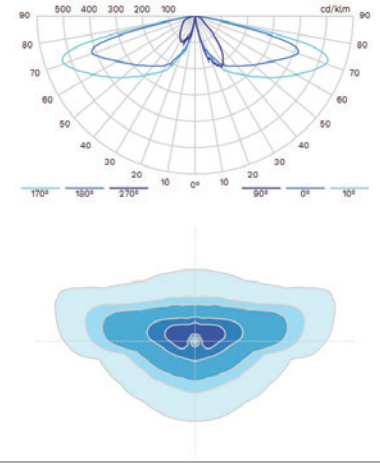
5121 - BL



5136 - BL



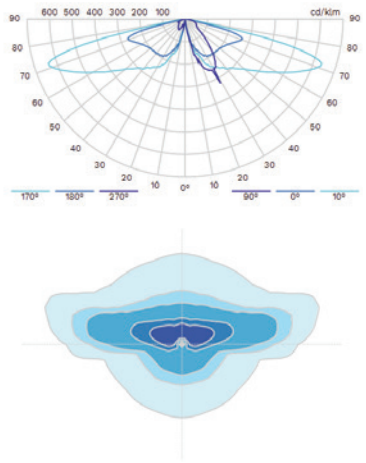
5137



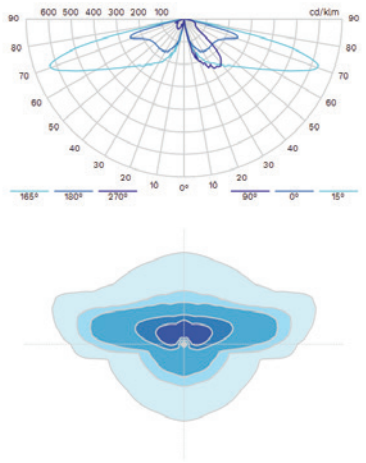
Copyright © Schréder SA - August 2020. All rights reserved. Specifications are of an indicative nature and subject to change without notice.

360 LIGHT & WLAN - CAMPUS | LIGHT DISTRIBUTIONS

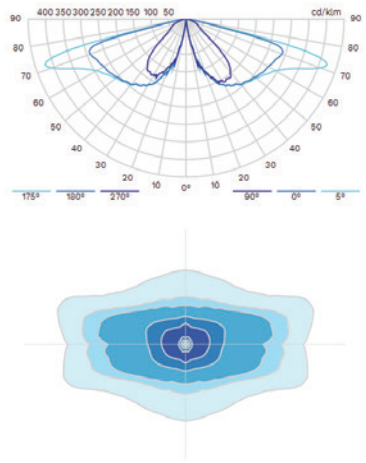
5137 - BL



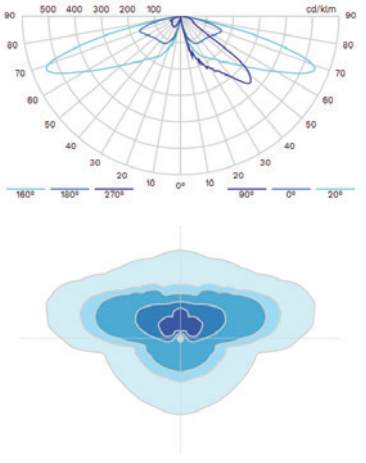
5138 - BL



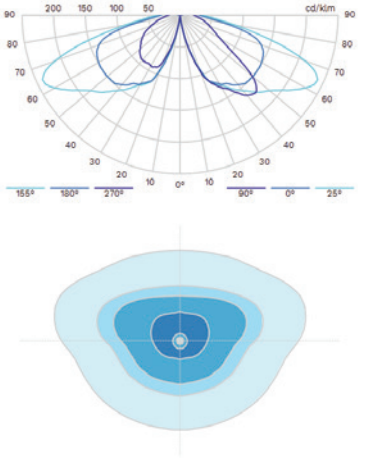
5138 Front-Rear



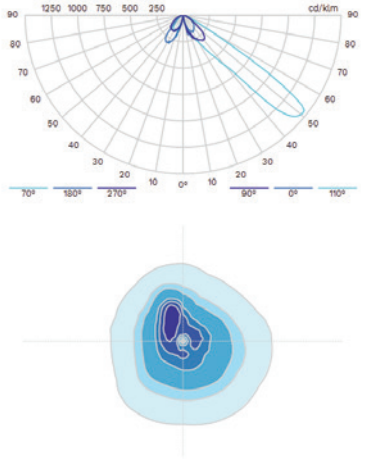
5139 - BL



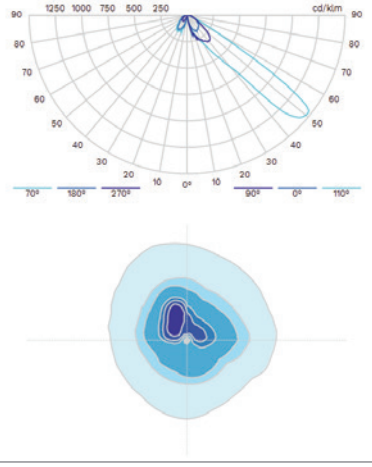
5139 Low Glare Diffuser sanded



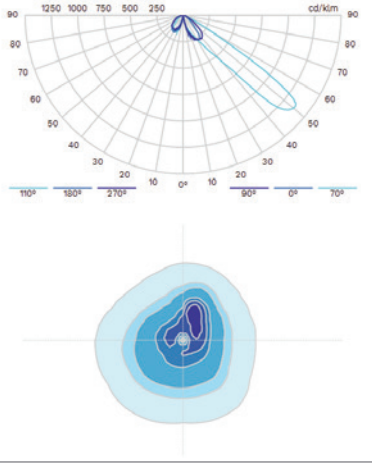
5144 Zebra left



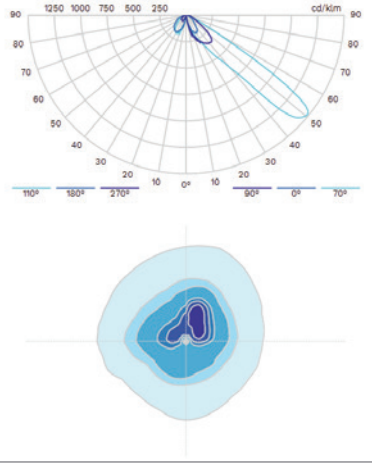
5144 Zebra left BL



5145 Zebra right



5145 Zebra right BL



Copyright © Schréder SA - August 2020. All rights reserved. Specifications are of an indicative nature and subject to change without notice.