



360 LIGHT & CONTROL 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**
- > **Connected-ready with 7-pin NEMA socket for IoT platforms**
- > **Easy installation with patented mounting system**
- > **Optional emergency strobe light**

The SHUFFLE 360 Light & Control module embodies lighting and beyond lighting versatility. It is designed to offer a variety of lighting options that improve the safety of citizens while protecting the surrounding flora and fauna at the same time.

As a lighting fixture, this module offers a range of options such as various LED colour temperatures, lumen outputs, optics, controls, electrical classes and protector types.

Equipped with an optional 7-pin NEMA socket, this module is connected-ready. It opens the door to integration with IoT platforms and adapts to any local requirements.

The lower section of the module can be adapted to host an emergency strobe light. The strobe can be triggered locally or remotely to alert emergency services.

This module was carefully designed and built from high-pressure die-cast aluminium combined with a clear or frosted high-grade transparent protector that allows the light to shine through and meet all lighting requirements.



360 LIGHT & CONTROL | CHARACTERISTICS

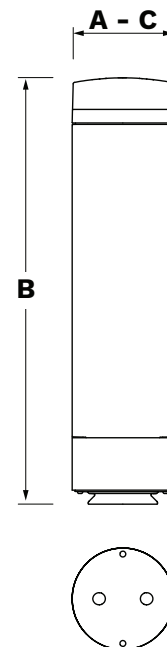
KEY FEATURES

- > Lumen package range: 1,600 to 4,500lm
- > Optional back-light control (BL)
- > French law compliant with G-Limiter option (GL)
- > Neutral or warm white LEDs
- > Optional internal diffuser or external diffuse protector for enhanced visual comfort
- > Strobe providing vital visual aid for emergencies
- > Strobe can be triggered remotely or locally
- > NEMA 7-pin socket for IoT controller



DIMENSIONS AND MOUNTING

AxBxC (mm inch)	194x815x194 7.6x32x7.6
Weight (kg lbs)	7 15.4
Aerodynamic resistance (CxS)	0.16
Mounting Possibilities	Clamps



360 LIGHT & CONTROL | CHARACTERISTICS

GENERAL

Recommended installation height	3m to 6,8m 9.8' to 22,3'
Driver included	Yes
CE Mark	Yes
CB Mark	Yes
ENEC Certified	Yes
ROHS compliant	Yes
French law of December 27th 2018 - Compliant with application type(s)	a, b, c, d, e, f, g
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 color	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 35°C / -40°F up to 95°C with wind effect
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*Depending on the module configuration. For more details, please contact us.

SHUFFLE

SHUFFLE Pole model	1 Door 2 Doors same side 2 Doors opposite 3 Doors <i>with Strobe</i> - 2 Doors same side 3 doors
SHUFFLE Components	Mains box Lighting Box <i>with Strobe</i> -Beyond light power supply box <i>with Strobe linked to VOIP</i> -Support plate Network <i>with Strobe linked to VOIP</i> -Network cable
Position on pole	Always top position

ELECTRICAL

Electrical class	Class I EU, Class II EU Class I US (<i>Strobe ongoing</i>)
Nominal voltage	220-240V 50/60Hz 120-277V 50/60Hz (<i>Strobe ongoing</i>)
Power factor (at full load)	0.95+
Surge protection options (kV)	10
Electromagnetic compatibility (EMC)	EN 55015 / EN 61000-3-2 / 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	No Dimming / Bi-Power/ Custom Dimming Profile
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)
Color 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.




LIFETIME OF THE LEDS @ TQ 25°C

All configurations	100, 000h - L95
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STROBE

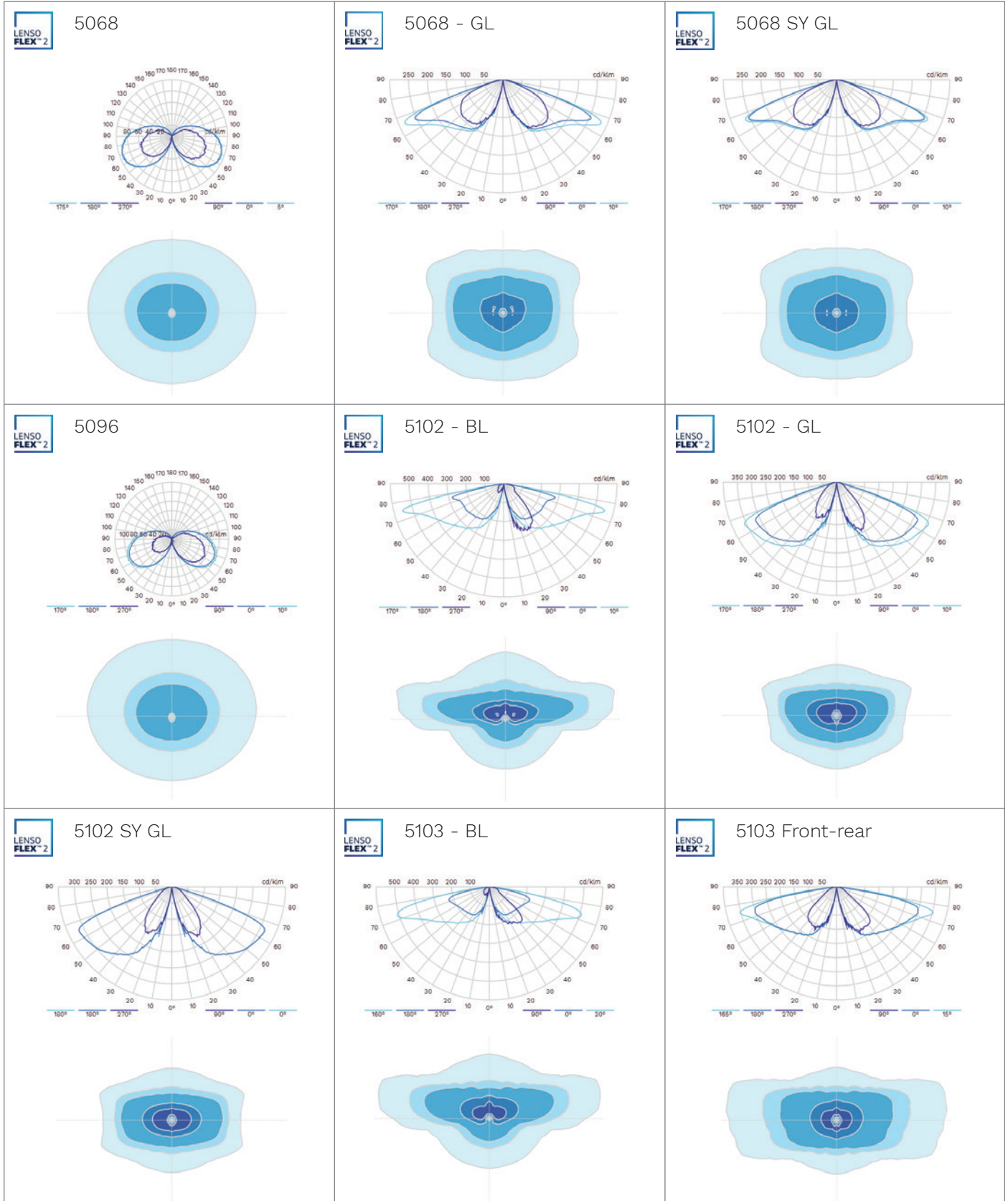
Colour	Blue
Activation	Linked to SHUFFLE intercom Linked to VOIP
Voltage	24V DC

360 LIGHT & CONTROL | PERFORMANCE

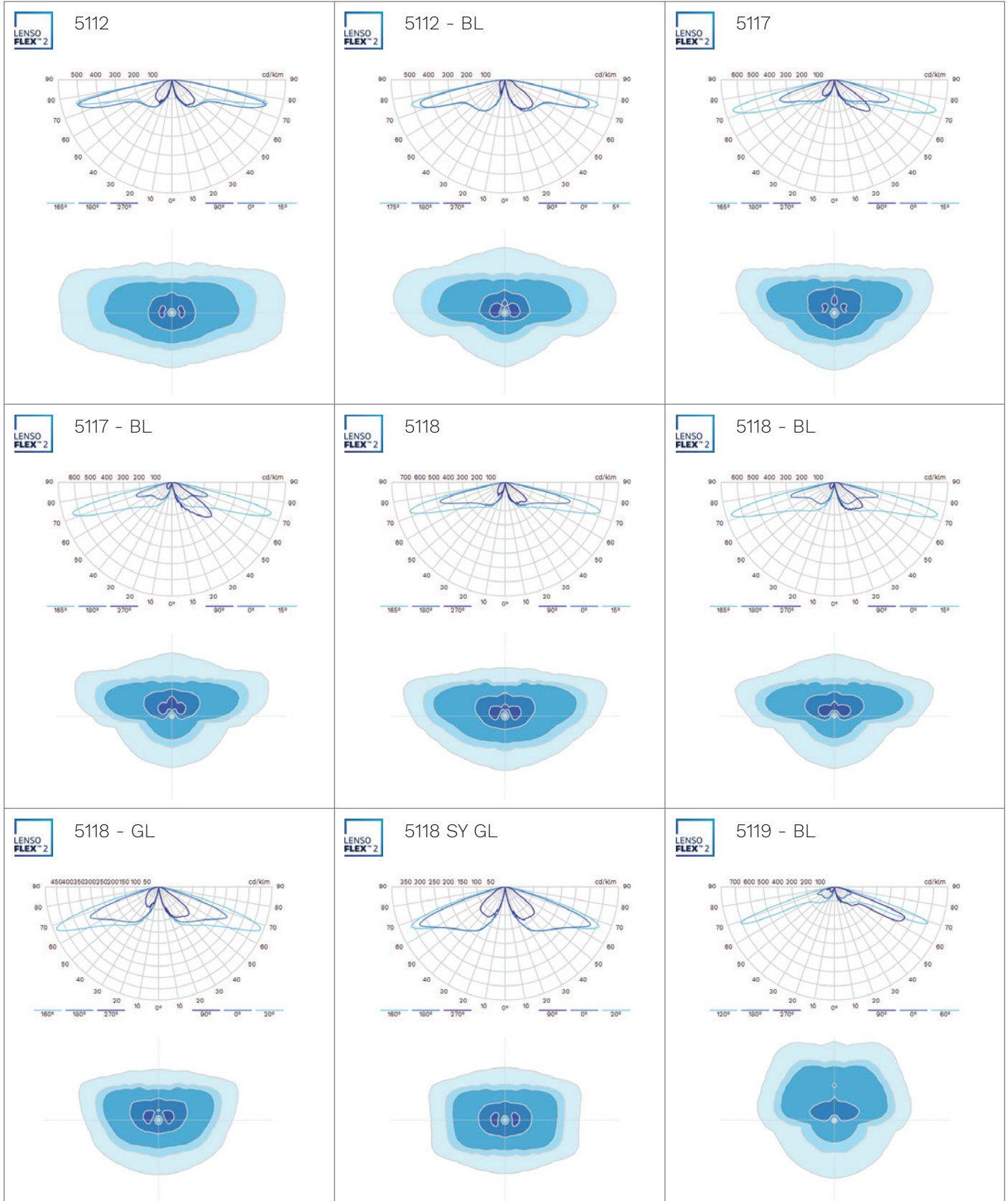
Luminaire	Number of LEDs	Current (mA)	Luminaire output flux (lm) Warm White 830		Luminaire output flux (lm) Neutral White 740		Power consumption (W)	Luminaire efficacy (lm/W)	
			Min	Max	Min	Max		Up to	Photometry
SHUFFLE 360°	20	350	1700	2500	1900	2800	25.2	124	
	20	500	2300	3400	2600	3900	35.6	123	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

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

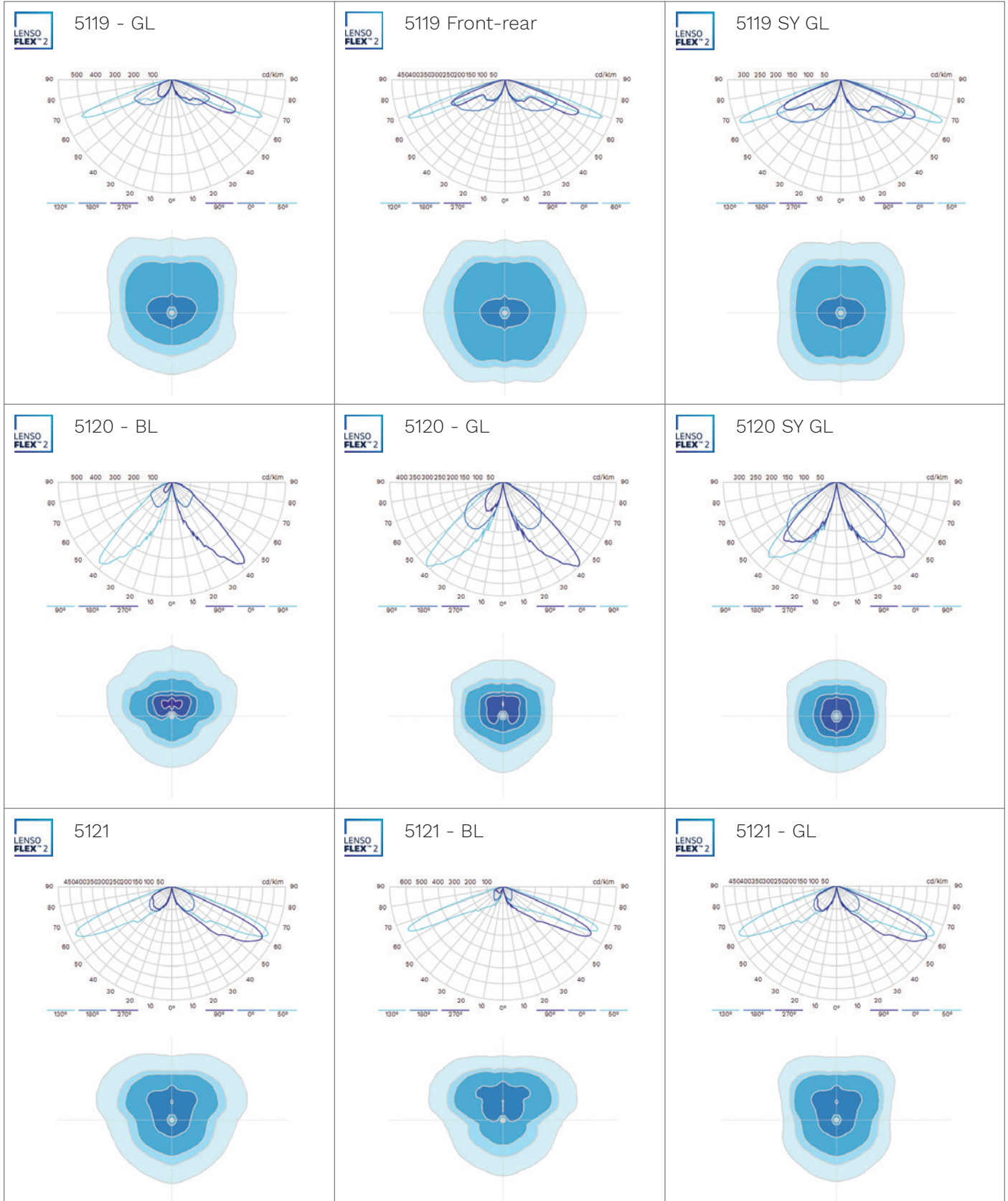
360 LIGHT & CONTROL | LIGHT DISTRIBUTIONS



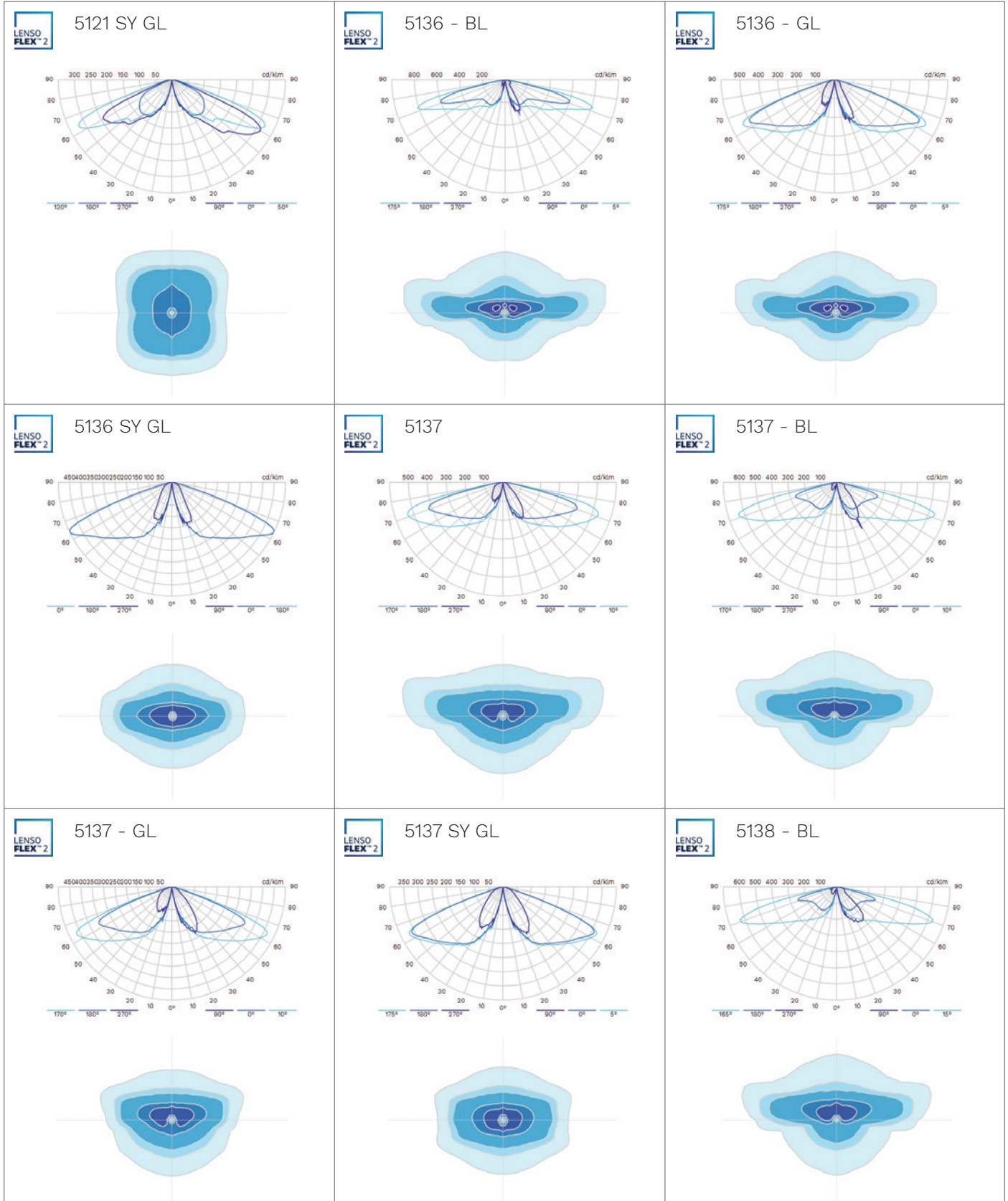
360 LIGHT & CONTROL | LIGHT DISTRIBUTIONS



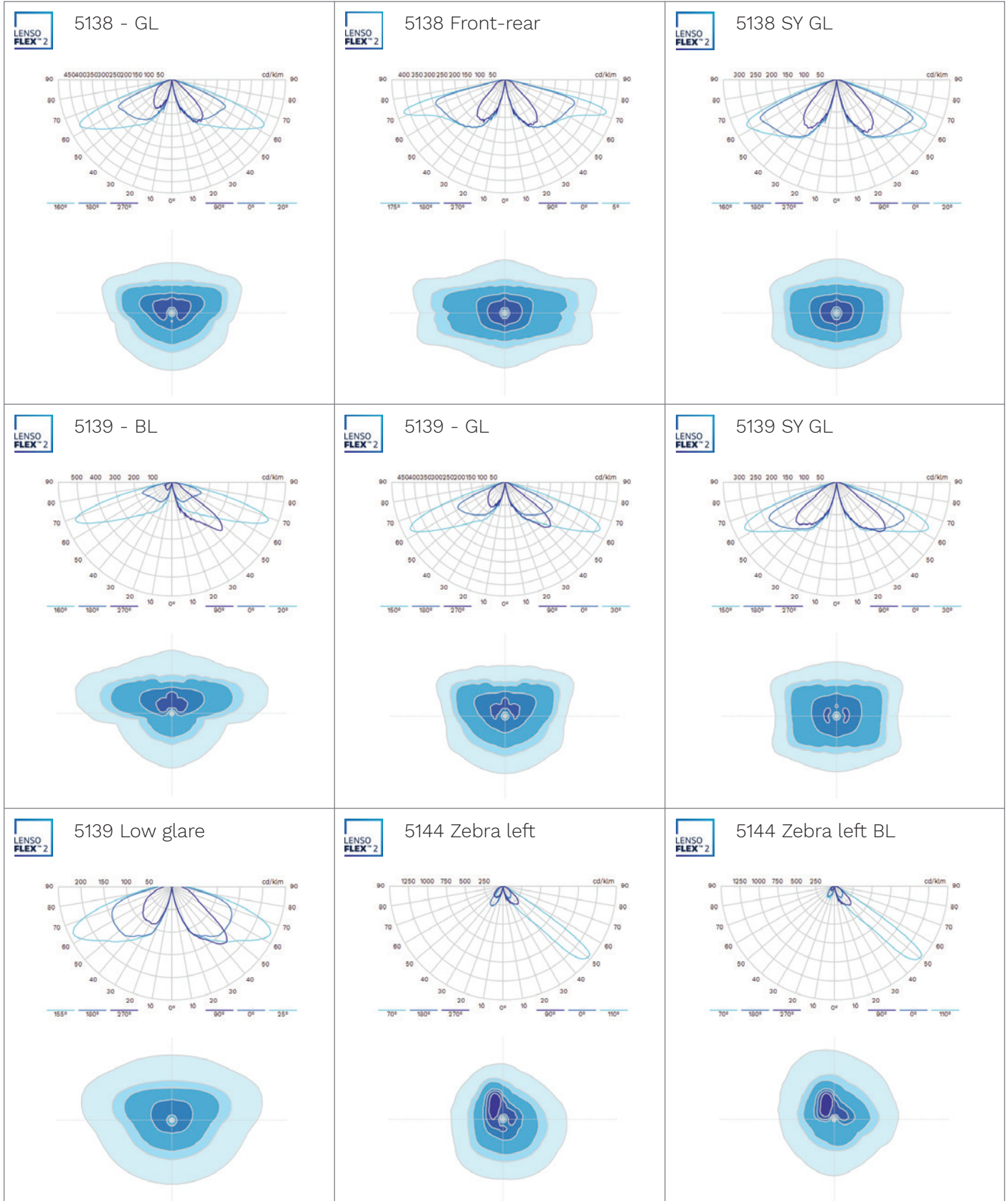
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360 LIGHT & CONTROL | LIGHT DISTRIBUTIONS

<p>LENSO FLEX² 5145 Zebra right</p>	<p>LENSO FLEX² 5145 Zebra right BL</p>	