



## 180 LIGHT & CONTROL REFLECTOR 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**



The SHUFFLE 180 Light & Controls - Reflector module enhances the different SHUFFLE lighting options by directing light towards a specific surrounding area. The array of options and configurations are carefully designed to offer a lighting solution for any particular situation.

LED colour, power, type of optic, control options, electrical class, protector type, etc. are all standard options that provide opportunities to enhance surroundings in a playful way. All options are then connected to Schröder's versatile, open and interoperable Owlet lighting remote control system.

Modules are carefully designed and manufactured from high-grade, die-cast, high-pressure aluminium with clear or frosted protectors used to secure and protect the module from the elements. Extruded aluminium is also used to achieve the cylindrical shape, with fasteners in stainless steel. The reflectors are in highly reflective anodised aluminium. The housing is finished with a high-grade polyester powder paint in a variety of colours, offering the customer endless possibilities.



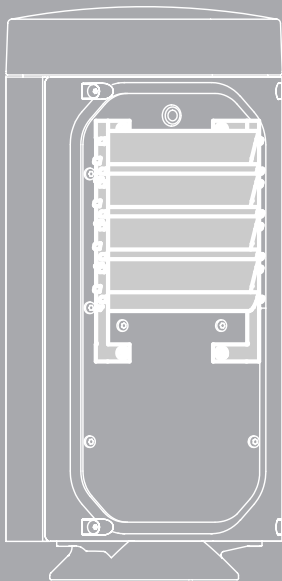
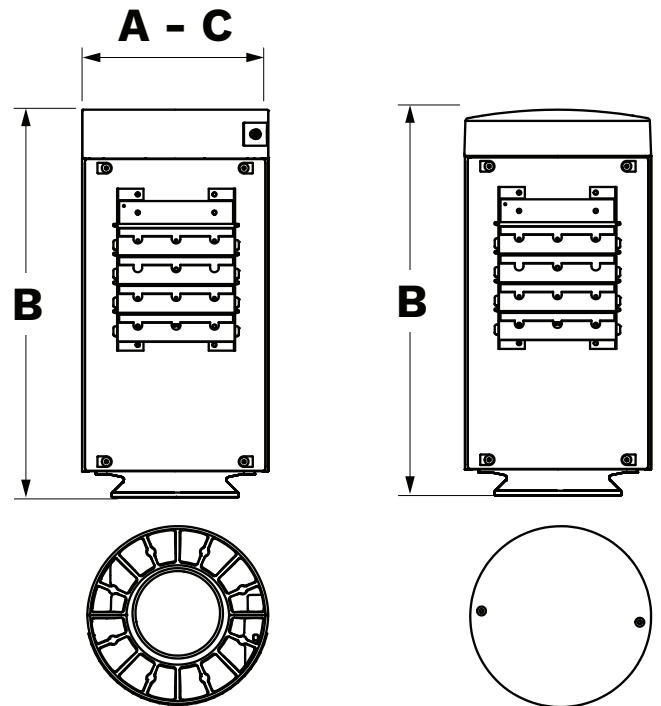
## 180 LIGHT & CONTROL - REFLECTOR | CHARACTERISTICS

### KEY FEATURES

- > **Highly reflective anodised aluminium reflector**
- > **Lumen package range: 2900 to 6000lm**
- > **Neutral or warm white LEDs**

### DIMENSIONS AND MOUNTING

AxBxC (mm   inch)	194x403x194   7.6x15.9x7.6
Weight (kg   lbs)	16.1   13.4
Aerodynamic resistance (CxS)	0.08
Mounting possibilities	Clamps



## 180 LIGHT & CONTROL - REFLECTOR | 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
Testing standard	LM 79-08 (all measurements in ISO17025 accredited laboratory)

### HOUSING AND FINISH

Housing	Aluminum
Optic	PMMA
Protector	Polycarbonate
Reflector	Aluminum
Housing finish	Polyester powder coating
Standard colour	AKZO grey 900 sanded*
Tightness level	IP 66
Impact resistance	IK 09

\*any other RAL or AKZO colour upon request

### OPERATING CONDITIONS

Operating temperature range (Ta)	-40°C up to 45°C / -40°F up to 113°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
SHUFFLE Components	Mains box   Lighting box
Position on pole	Any position

### ELECTRICAL

Electrical class	Class I EU, Class II EU Class I US
Nominal voltage	220-240V 50/60Hz 120-277V 50/60Hz
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	Bi-power, Custom dimming profile, Photocell
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.

### LIFETIME OF THE LEDS @ TQ 25°C

All configurations	100,000h - L95
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## 180 LIGHT & CONTROL - REFLECTOR | 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)	Photometry
			Min	Max	Min	Max			
SHUFFLE 180 Reflector	24	350	2500	2900	2900	3300	28	118	
	24	350	2300	2700	2700	3200	28	114	
	24	500	3400	3900	3900	4500	39	115	
	24	500	3300	3800	3800	4400	39	113	
	24	700	4400	5200	5100	6000	55	109	
	24	700	4300	5100	5100	5900	55	107	

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

## 180 LIGHT & CONTROL - REFLECTOR | LIGHT DISTRIBUTIONS

<p><b>RE FLEXTM</b> 2239 AS</p>	<p><b>RE FLEXTM</b> 2288 AS</p>	<p><b>RE FLEXTM</b> 2288 AS</p>
<p><b>RE FLEXTM</b> 2290 AS</p>		