

YOA



owlet



Schröder





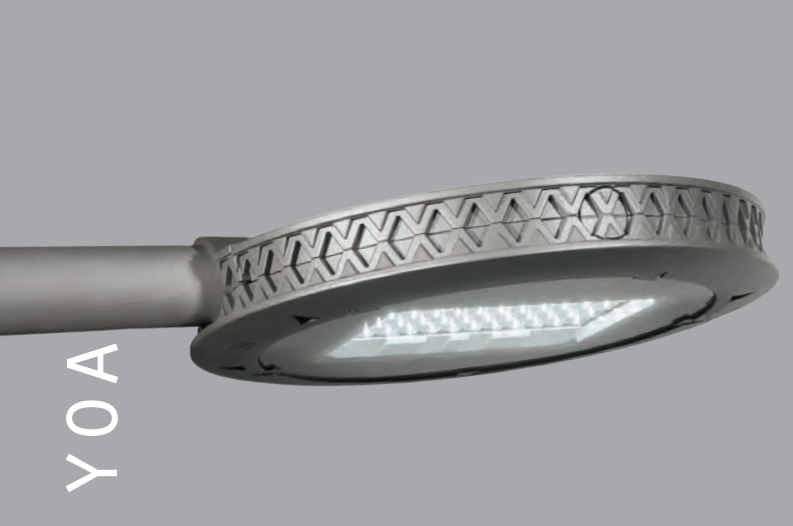
YOA

EFFICIENCY AND STYLE
THROUGHOUT THE CITY



YOA





Design: Michel Tortel



CHARACTERISTICS – LUMINAIRE

Optical compartment tightness level:	IP 66 ^(*)
Electronic compartment tightness level:	IP 66 ^(*)
Impact resistance (glass):	IK 08 ^(**)
Nominal voltage:	230V - 50Hz
Electrical class:	I or II ^(*)
Weight:	Midi 13kg Maxi 20kg

Materials

Body:	Die-cast aluminium
Protector:	Glass
Colour:	AKZO grey 900 sanded Any other RAL or AKZO colour upon request

(*) according to IEC - EN 60598

(**) according to IEC - EN 62262

KEY ADVANTAGES

- Perfect match between design and performance
- Right lighting through LensoFlex®2 offering high performance photometry, comfort and safety
- IP 66 tightness level for long lasting performance
- FutureProof: easy replacement of the photometric engine and electronic assembly
- ULOR 0%
- Sustainable and recyclable materials (aluminium and glass)
- Surge protection 10kV
- Designed to incorporate Owlet range of control solutions

ENERGY EFFICIENT URBAN LIGHTING SOLUTION WITH A TOUCH OF AMBIANCE

The Yoa range offers a complete solution to light urban spaces with the same efficiency and the same astonishing elegance throughout the city.

From large avenues to narrow streets and squares, the various configurations (side-entry, post-top and catenary solutions) provide aesthetical ensembles to create a distinctive identity for the city landscape.

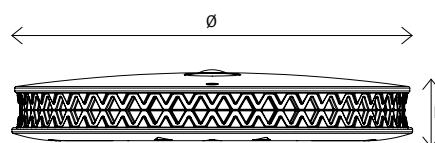
Available in two sizes, the Yoa luminaire is equipped with the second generation LensoFlex®2 photometric engine which offers a high-performance photometry optimised for each specific application with minimum energy consumption.

The Yoa range offers flexible combinations of LED modules, driving currents and dimming options to provide the most cost-effective solution while improving comfort and safety for people.

OPTIONS

- Warm white (3100K)
- Back light control
- Pre-wiring to facilitate installation
- IK 10 polycarbonate protector
- Integrated motion detection sensor
- Numerous mounting options including brackets and catenary fixation

DIMENSIONS - MOUNTING



	Yoa Midi	Yoa Maxi
Ø	500mm	650mm
H	90mm	90mm

The Yoa luminaire offers standard slip-over mounting onto a bracket with a 60mm diameter spigot (length 115mm for Midi and 125mm for Maxi).

DESIGN MEETS PERFORMANCE

Round, slim and decorative, Yoa introduces a subtle and refined presence in the urban space. The luminaire offers an outstanding finish, particularly noticeable thanks to its elaborated crown and its patterned glass protector associated with an embellishment plate for a detailed aesthetic finish. This elegance houses the last generation of the most performing and comfortable LED engine, the LensoFlex®2.

LENsofarflex®2

The Yoa luminaire is equipped with second generation LensoFlex®2 photometric engines that have been specifically developed for lighting spaces where the well-being and safety of people using the environments are essential. This system is based upon the addition principle of photometric distribution. Each LED is associated with a specific lens that generates the complete photometric distribution of the luminaire. It is the number of LEDs in combination with the driving current that determines the intensity level of the light distribution.

ENERGY SAVINGS OF UP TO 80%

The Yoa luminaire integrates the latest cutting edge technologies. The combination of LEDs, a driver with a constant flux system and dimming makes it possible to achieve energy savings that can reach up to 80% compared with luminaires equipped with traditional light sources. With this very favourable energy balance, the Yoa luminaire contributes to the effective management of finances and to the responsible use of energy.

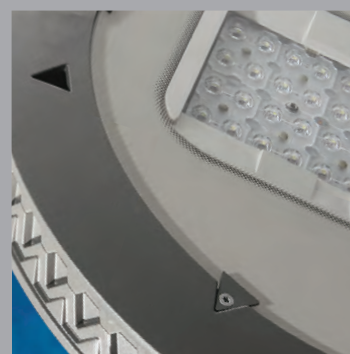
BACK LIGHT CONTROL PREVENTING INTRUSIVE LIGHT

As an option, some versions of the Yoa can be equipped with a Back Light Control system.

Thanks to an additional control plate inside the luminaire body, light spill from the back of the luminaire is minimised to avoid intrusive light on buildings.

THERMIX® FOR LONG LASTING PERFORMANCE

Controlling lost heat is essential to ensure that the LEDs maintain their effectiveness over time. To reach this goal, the Yoa luminaire integrates the ThermiX® concept developed by Schröder. It is based on optimising all the parameters in the thermal management of LEDs to preserve the luminaire performance over time. This means the Yoa luminaire still offers at least 80% of its initial lumen output after 100,000 hours.



LENSOFLEX®2

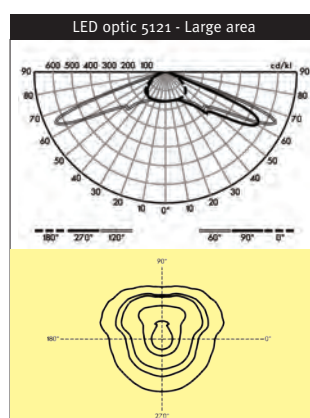
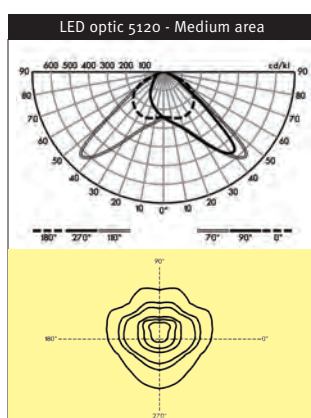
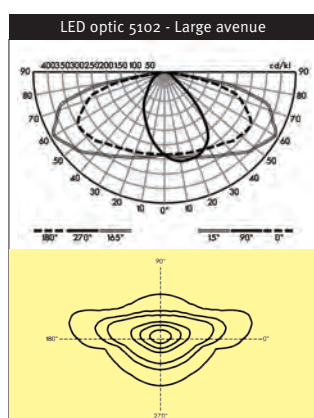
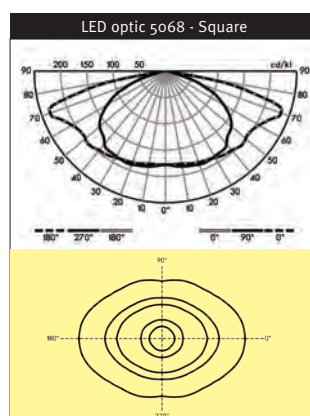
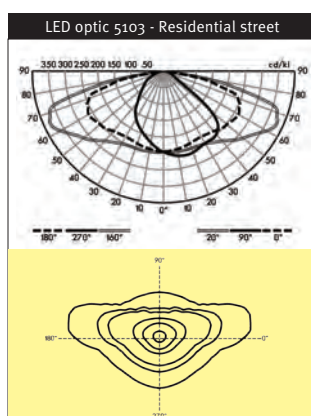
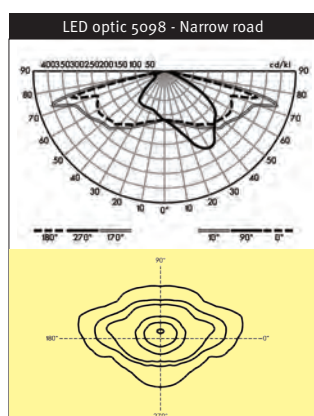
Lifetime residual
flux @ t_j 25°C ^(*)

		Yoa Midi					Yoa Maxi			
Number of LEDs	Neutral white (4250K)	16 LEDs	24 LEDs	32 LEDs	40 LEDs	48 LEDs	64 LEDs	80 LEDs	96 LEDs	@100.000h
Current: 350mA	Nominal flux (lm)*	2200	3400	4500	5700	6800	9100	11400	13700	90%
	Power consumption (W)	19	28	37	44	52	72	87	109	
Current: 500mA	Nominal flux (lm)*	3000	4500	6000	7500	9000	12000	15100	18100	
	Power consumption (W)	26	39	52	64	74	101	123	153	
Current: 700mA	Nominal flux (lm)*	3800	5800	7700	9700	11600	15500	19400	23300	80%
	Power consumption (W)	38	55	72	93	108	140	185	215	

^(*) The nominal flux is an indicative LED flux @ t_j 25°C based on LED manufacturer's data. The real flux output of the luminaire depends on environmental conditions (e.g. temperature and pollution) and the optical efficiency of luminaire.
Nominal flux depends on the type of LED in use and likely to change in accordance with the continuous and rapid developments in LED technology. To follow the progress of the luminous efficiency of the LEDs used, please visit our website. You can find precise information regarding the luminaire flux of each version in the downloadable product sheets.

^(**) In accordance with IES LM-80 - TM-21.

LIGHT DISTRIBUTIONS



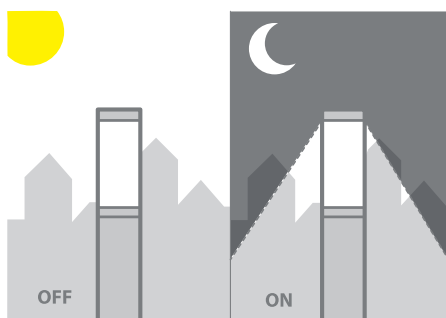
SMART LIGHTING

The Yoa luminaire can integrate the Owlet range of control solutions to operate either in stand-alone mode, in an autonomous network or an interoperable network. Our range of solutions encompasses small areas to complete city networks in order to perfectly suit your requests and your targets in terms of savings.

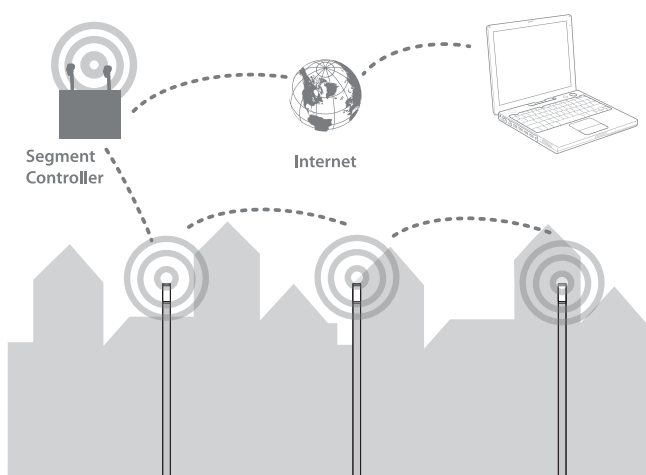


Thanks to dimming features, light-on-demand options and bi-directional communication, the Owlet solutions allow you to save energy, to provide light only when and where it is required and to optimise the operational management of your lighting scheme in terms of costs and services. The integrated Owlet solutions are key to monitor, to control, to meter and to manage a lighting network in the most efficient way.

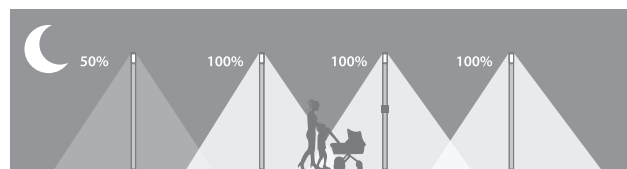
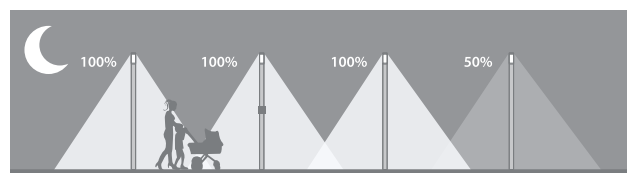
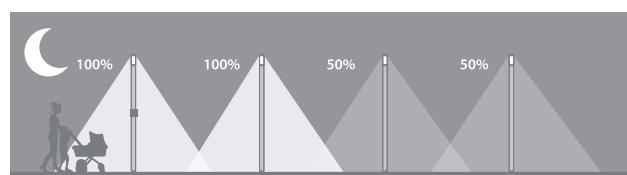
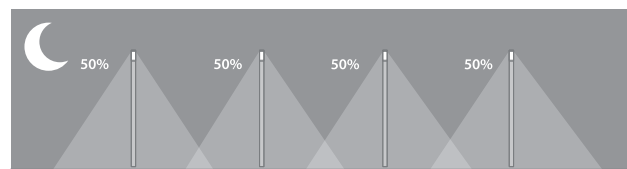
PHOTOCELL (STAND-ALONE)



REMOTE MANAGEMENT SYSTEM (INTEROPERABLE NETWORK)



MOTION DETECTION (AUTONOMOUS NETWORK)



CASE STUDY



Yoa Midi LensoFlex®2 48 LEDs @500mA
4250K neutral white
74W
MF = 0.85
M3 - classified road according to CIE 115
Installation height: 10m
Spacing between poles: 37m
Energy savings: 79%

By replacing the old luminaires (equipped with 150W high-pressure sodium lamps) with **Yoa Midi 48 LED fixtures**, the **energy consumption has been reduced by 79%**. The Yoa luminaires are equipped with smart drivers including CLO, light output adjustment and scheduled dimming. This configuration enables the maximum amount of energy to be saved while strictly complying with CIE 115 standards.

For 4,000 hours of use per year, for 1km of urban road, this corresponds to a consumption of less than 10.5kWh/day and emissions lower than 4.9kg eq CO₂ according to the average European equivalent of 0.46kg eq CO₂/kWh.

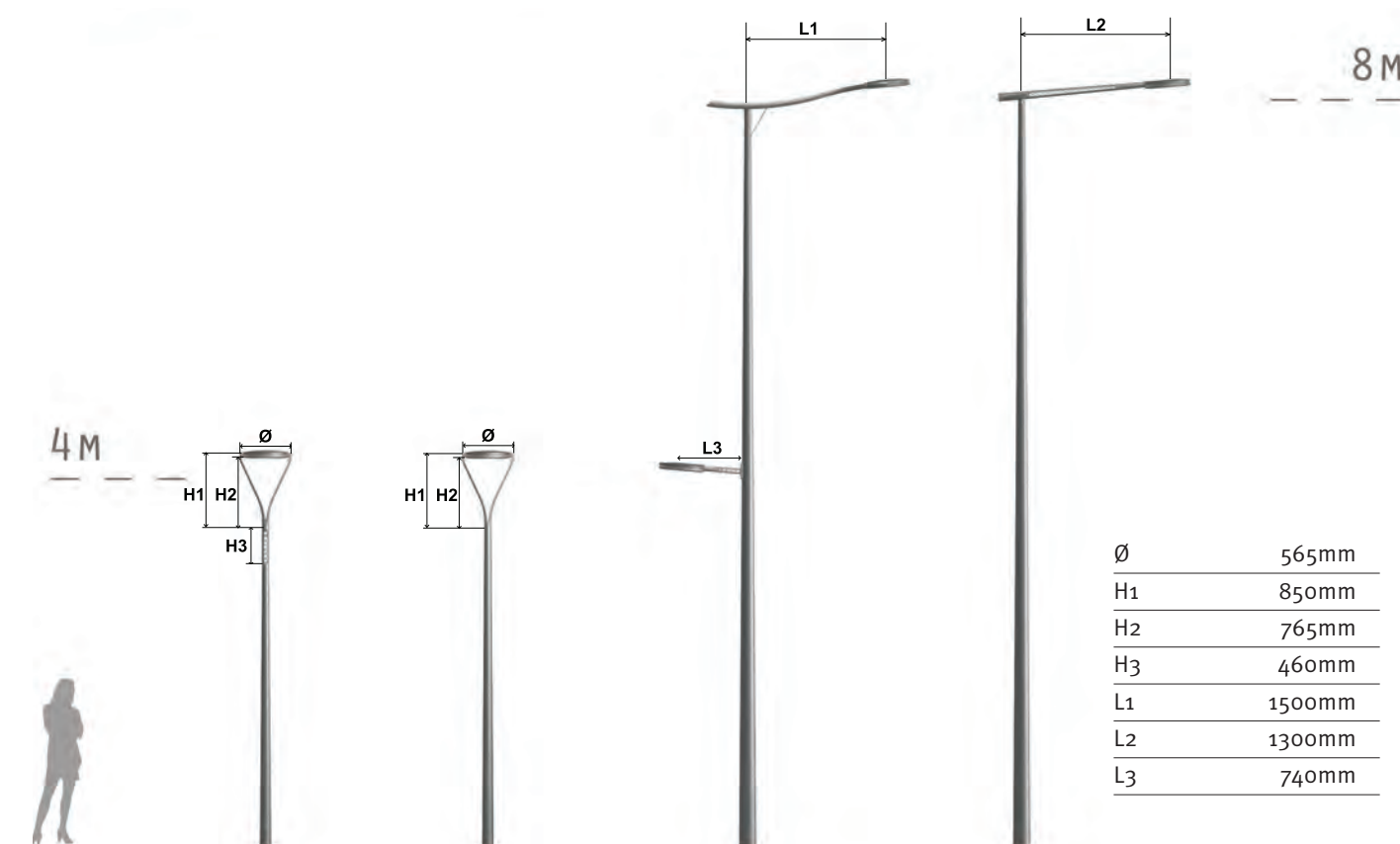




Yoa Maxi



Yoa Midi



YOA MIDI+LYRE
with or without
embellishment strut

YOA MIDI
+LUCEA

YOA MIDI
+TRESSA

Ø	565mm
H1	850mm
H2	765mm
H3	460mm
L1	1500mm
L2	1300mm
L3	740mm

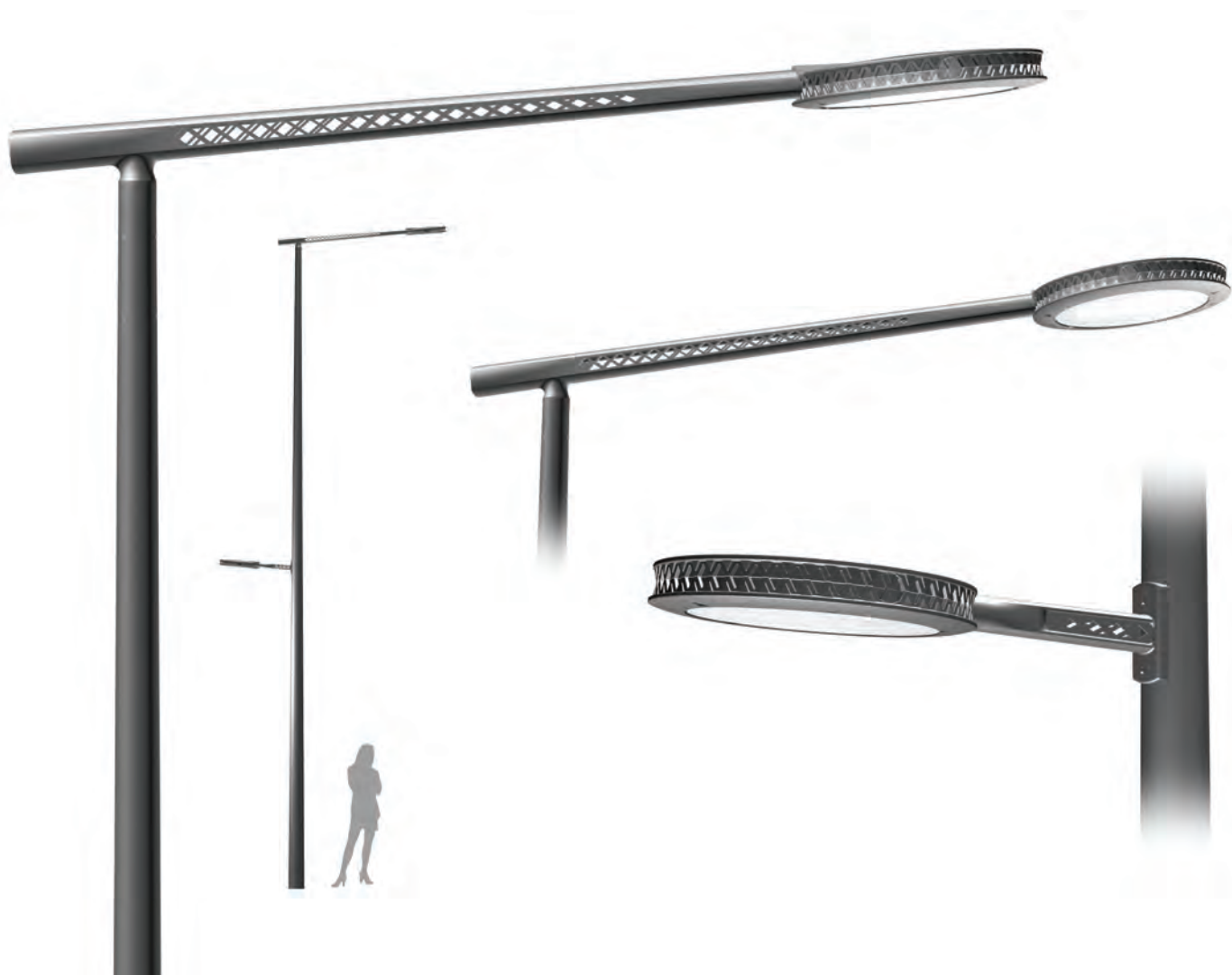








THE TRESSA BRACKET CAN BE FITTED WITH A STATIC LOW-POWER LED FOR ACCENT LIGHTING, TO CREATE A DISTINCTIVE IDENTITY.









PARIS
LA DÉFENSE
MICHELET
VILLON
B^e Circulaire

4.1m

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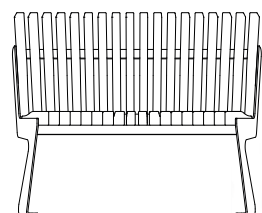
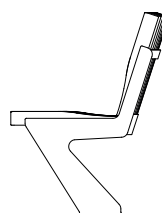
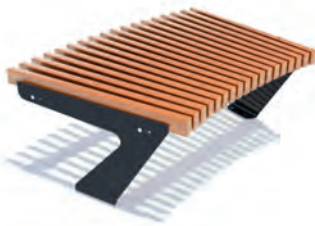
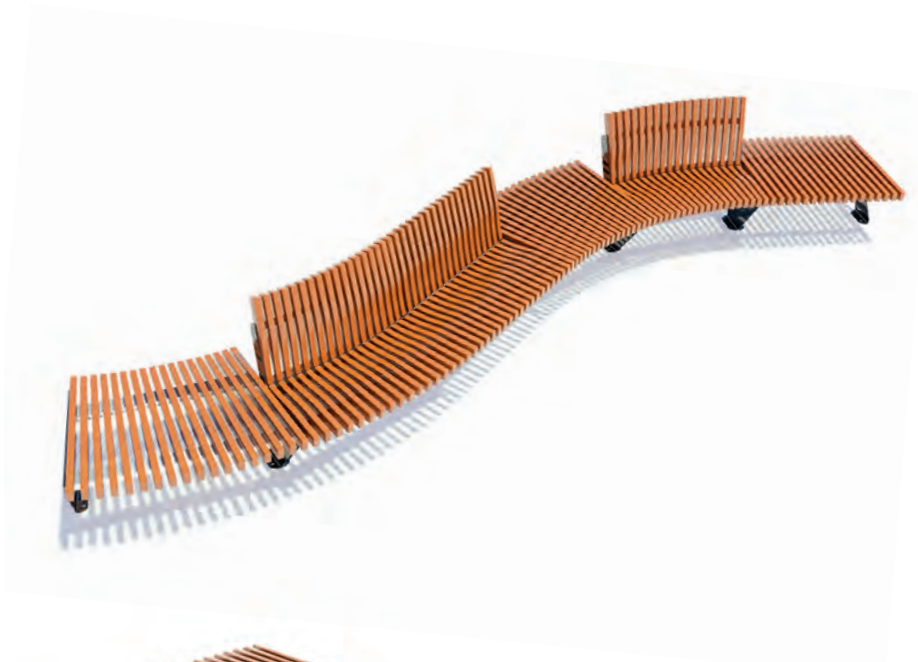
YOA + CURL

INVITING ALL AROUND

The Yoa luminaire can be aesthetically associated with the Curl bench range.

Curl is more than just a bench. It is an urban stage to relax, see and be seen, read, chat and even work. The Curl invites people to enjoy diverse activities with configuration possibilities that are just as flexible.

The Curl bench system consists of straight, concave, convex modules with or without a back that are one metre long. They can be combined freely and thereby provide optimal configuration possibilities. The seating area and back are made of hardwood, which is mounted on a powder-coated steel frame.



YOA



