

POLE SANO

BY DEAN SKIRA

☒ DELTALIGHT®



POLESANO —

Polesano is the first collaboration in product design between **DELTA LIGHT** and **DEAN SKIRA**. The goal was to develop a new concept in lighting instruments, designed specifically for urban settings, be that a pedestrian pathway, roadway, park, square, façade or landscape. It needed to provide maximum flexibility for the designer to combine different optical characteristics, whilst keeping the same aesthetic for the entire system, regardless of the area.

The result is Polesano, offering modularity and flexibility, and providing personal involvement for the designer to meet specific functional and aesthetic needs of the project. Future developments can be integrating video surveillance, Wi-Fi, speakers or other IoT units.

DEAN SKIRA—

is the founder of **SKIRA**, an award-winning practice based in Pula (Croatia) with projects also in the EU, Middle East, Russia, Canada, and the United Kingdom. For the past 30 years, he is building and creating mostly with intangible forms while working with investors, architects and designers to create meaningful lighting experiences.



SKIRA.HR





HANGAR K

— The main idea of 'POLESANO' is to create a 'device' which can provide all necessary forms of light in one single aesthetically unique structure, where the pole and the fitting become one body —

Dean Skira

Urban fabric is a complex set of architectural, historical, cultural, commercial, spatial and functional requirements for inhabitants.

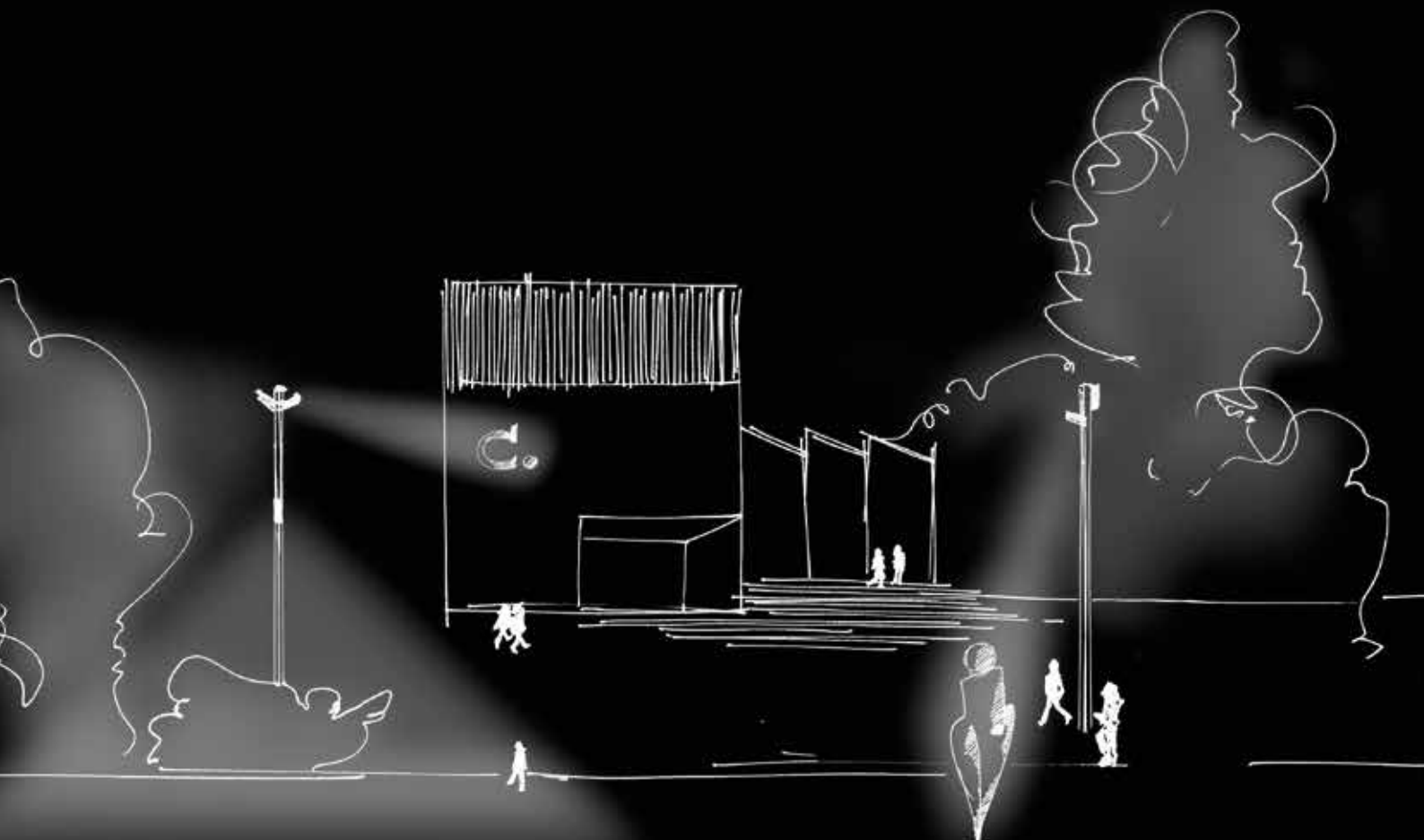
Connective tissue in an urban setting is unthinkable nowadays without light that follows vehicles, pedestrians, landscape or vertical surfaces in any given type of area throughout nocturnal communication.

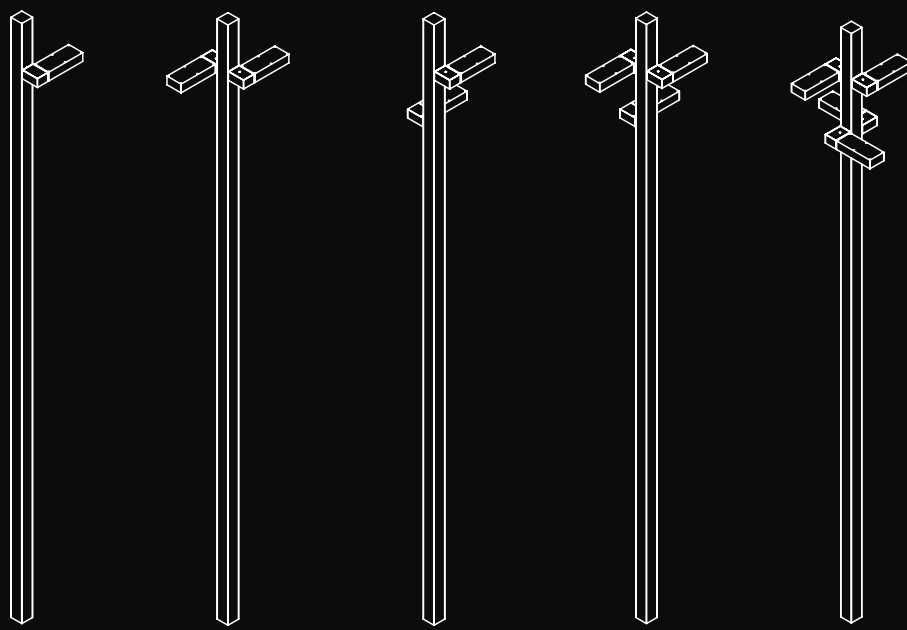
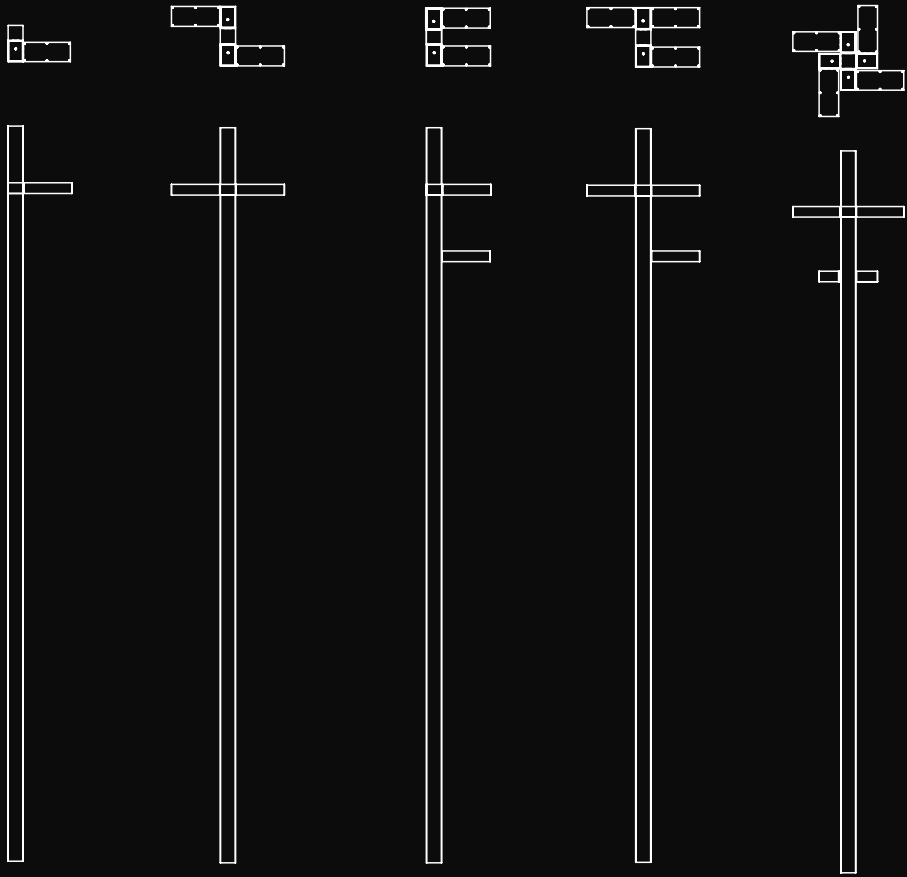
The main purpose of urban lighting is to secure safety and fulfill essential functions. At the same time it can enhance landscape design, increase social interaction and upgrade orientation. Historically we had a pole which was holding a luminaire at a certain height to provide light according to its photometric characteristics across a given area. Usually pole and luminaire were two entirely different elements, often coming from different suppliers, the pole generally not even considered a part of the design adding no aesthetic value. That's where Polesano takes it to the next level.



The Polesano is characterized by a minimalist and pure design, subordinate to its environment. Its modularity and high flexibility allows to meet multi-zone lighting needs in a continuous design language.

Thanks to different optics and sizes Polesano enables precise illumination as well as merging lighter and darker zones smoothly, making the combination landscape, social interaction and lighting more effective.

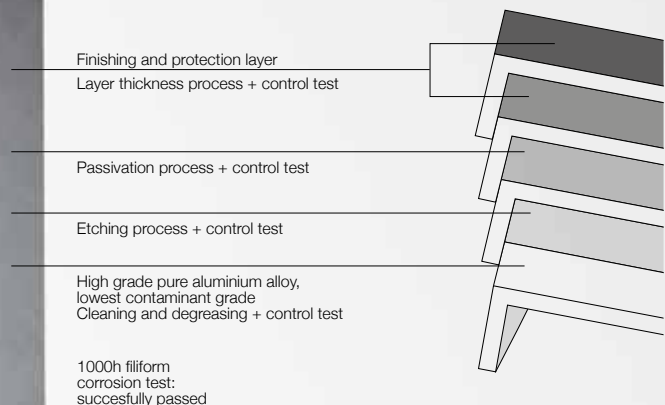






In addition to harsh weather conditions, outdoor luminaires can also be subject to collision. Therefore, the enclosure of the fixture needs to protect the electrical equipment, according to a standard classification. The IK label gives us an idea of the possible impact a luminaire can withstand. In case of Polesano, IK08 stands for an impact of 5 Joule.

Outdoor luminaires often need to withstand harsh weather conditions, therefore Delta Light® maintains the highest standards, both in material choice as well as in the coating process. Both the luminaire heads as the pole are being finished according to the specifications of the quality label Qualicoat.



Flexibility of multiple luminaires from a single infrastructure _

Conventional street lights primarily illuminate horizontal areas. However, this is not sufficient to meet the needs of today's landscape design and illuminate with impact.

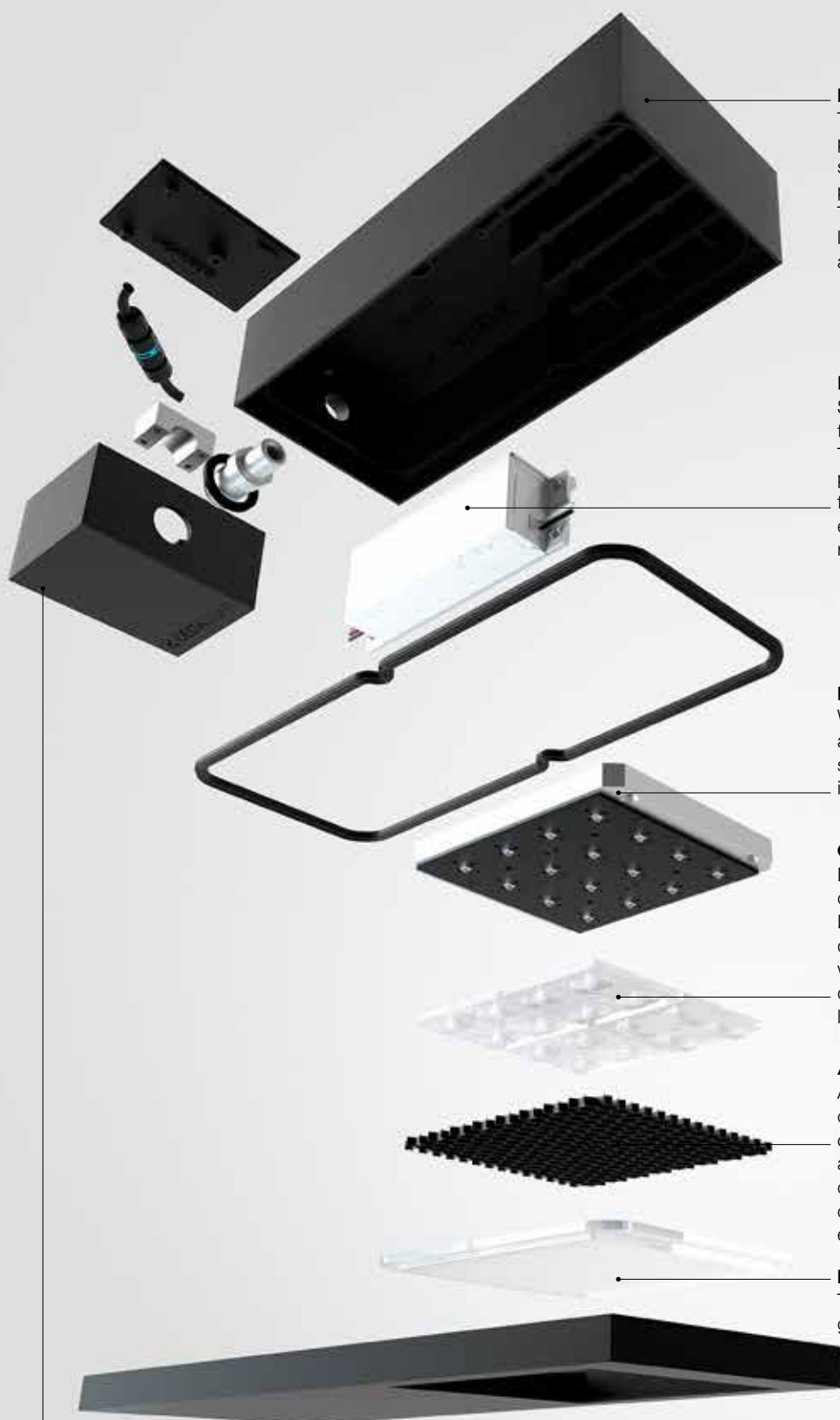
The flexibility of the Polesano enables to illuminate vertically and horizontally, as the double axis in the connection box allows a 355° rotation from the luminaire vs. the pole and a 180° rotation from the luminaire itself.

In this way, any possible set-up can be achieved.



180°

355°



LUMINAIRE HEAD

The luminaire head houses both LED engine and power supply. For maintenance or in case of any sudden defect, the head can be removed from the pole and check-up can be done on ground level. To keep dust, dirt or humidity from entering the luminaire, the head is completely sealed with a silicon rubber gasket.

POWER SUPPLY

Street and area lighting can suffer from voltage peaks through direct or indirect lightning charges. The standard power supply used can withstand peaks up to 6 kV. Moreover, it also features AstroDIM functionality based on an internal timer, allowing energy savings overnight through multi-stage power reduction.

LED ENGINE

With a standard colour rendering index CRI 80, a maximum colour shift of MacAdam Step 3 and a service lifetime of 80.000 hours, the LED engine used in Polesano ensures long-lasting high quality light.

OPTICS

Each of the 16 LEDs has its own lens, allowing to create a multi-layer light output out of the individual LED dots. The use of separate lenses allows for 4 different optics (Spot, Medium, Flood and Street) while maintaining design consistency, so no visible differences can be noticed between the different luminaire heads.

ACCESSORIES

Although the compactness of the luminaire, the design offers the possibility to add an accessory between the optics and the tempered glass. Either a honeycomb is available to improve the visual comfort for the passer-by, or a linear spread lens can be added to alter the beam of the luminaire and generate a more elliptical light effect.

EXTRA CLEAR – TEMPERED GLASS

To maintain an IP66 rating, the non-reflective glass is glued precisely into the front plate by means of a robot.

CONNECTION BOX

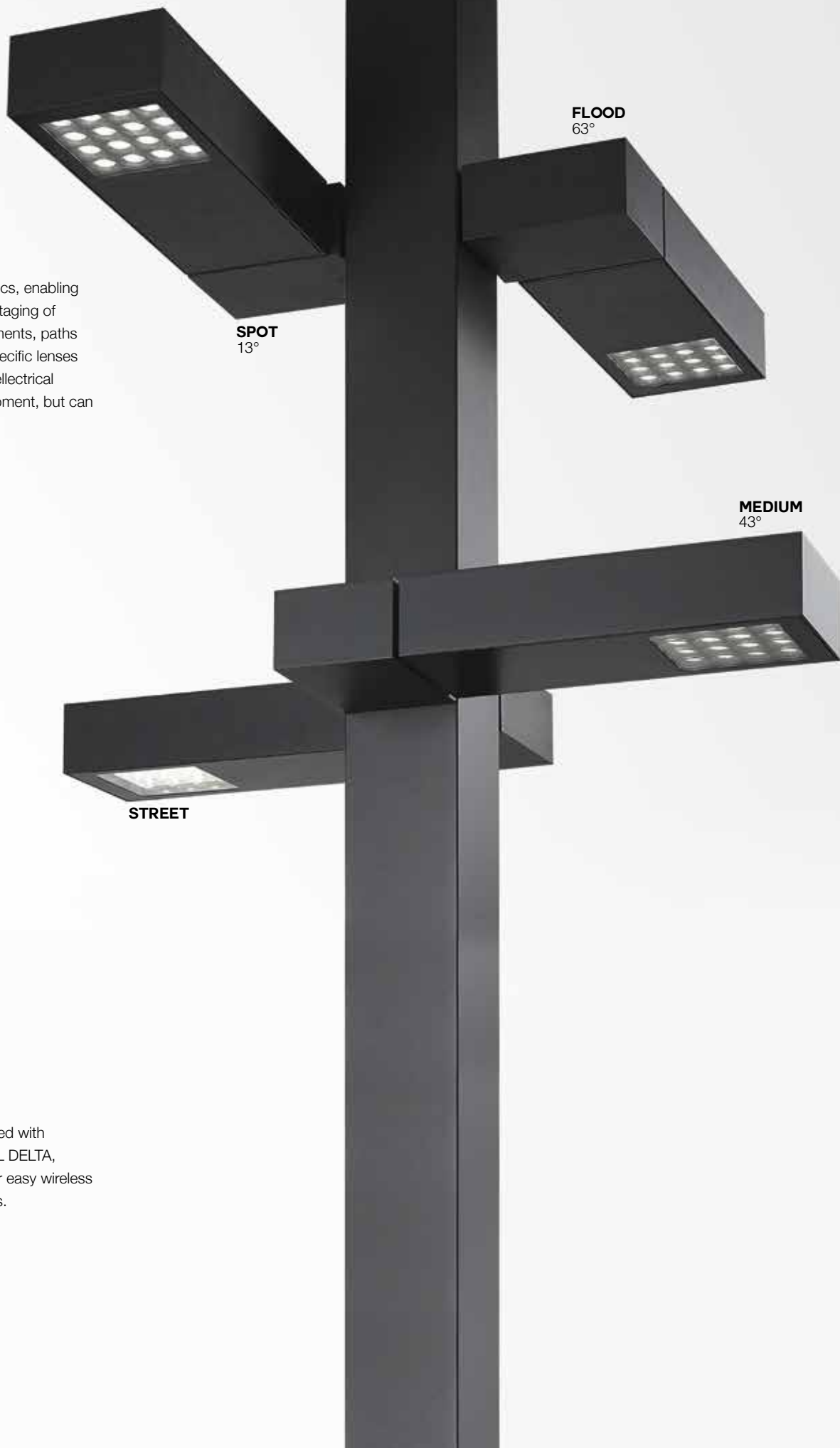
The connection box is the link between pole and luminaire head. Apart from the electrical connector, it also contains the two hinges that can be used to tilt and/or rotate the luminaire head and fine tune the light effect.

By separating the electrical and mechanical parts from the luminaire head, the head does not have to be opened when installing, ensuring no damage can be done to the LED engine or the IP66 rating.

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Precise Optics _

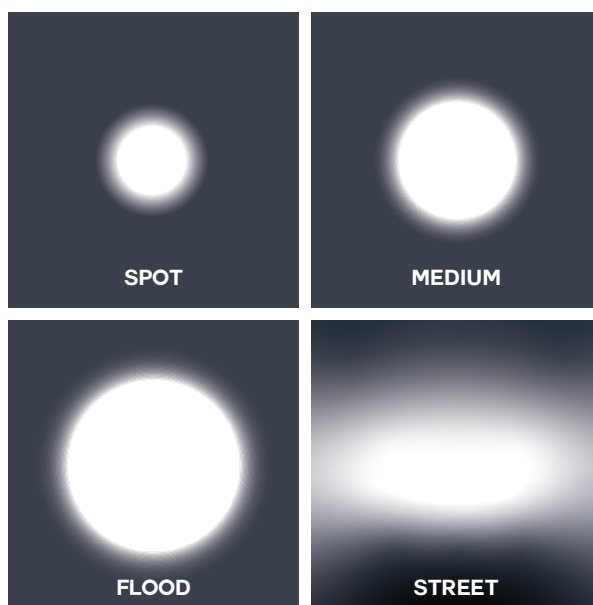
Polesano comes in 4 optics, enabling precise illumination and staging of buildings, decorative elements, paths and streetways. Other specific lenses with an asymmetrical or electrical distribution are in development, but can be asked for on request.



Polesano can be combined with Delta Light's unique CTRL DELTA, a user-friendly solution for easy wireless control via mobile devices.

Configure to your needs__

You can shape your Polesano according to the specific needs of your project. The pole comes in 2 standard heights, either 4 or 6 meters high. Both heights can be combined with one, two, three or four luminaires. The luminaires can be any mix of the spot, flood, medium or street optics, or a set of the same optics - depending on the specific illumination requirements of its landscape. Besides the height of the pole and the selection of luminaire optics, you can also opt for either anchored installation or with a base.





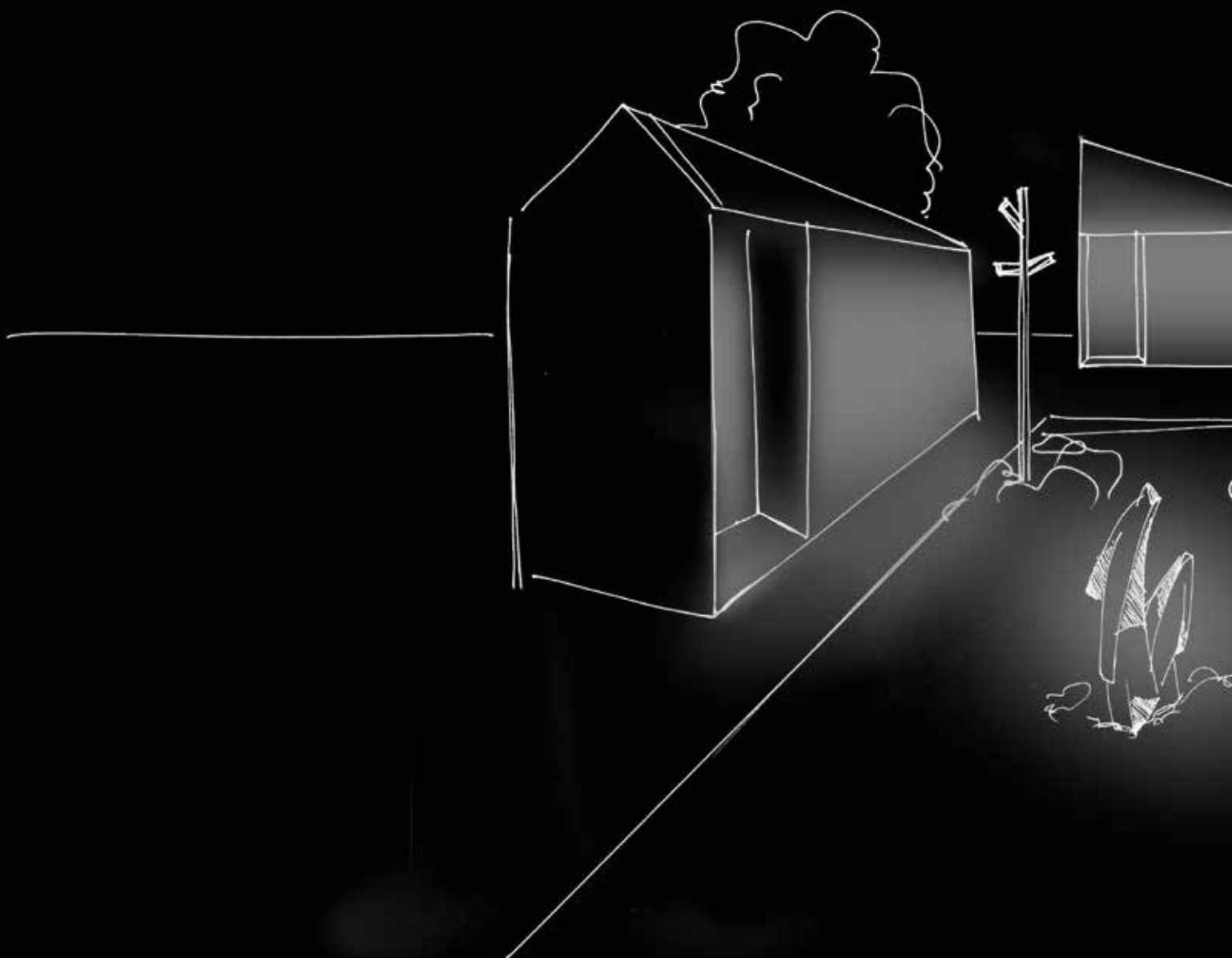
POLESANO
di Polesano

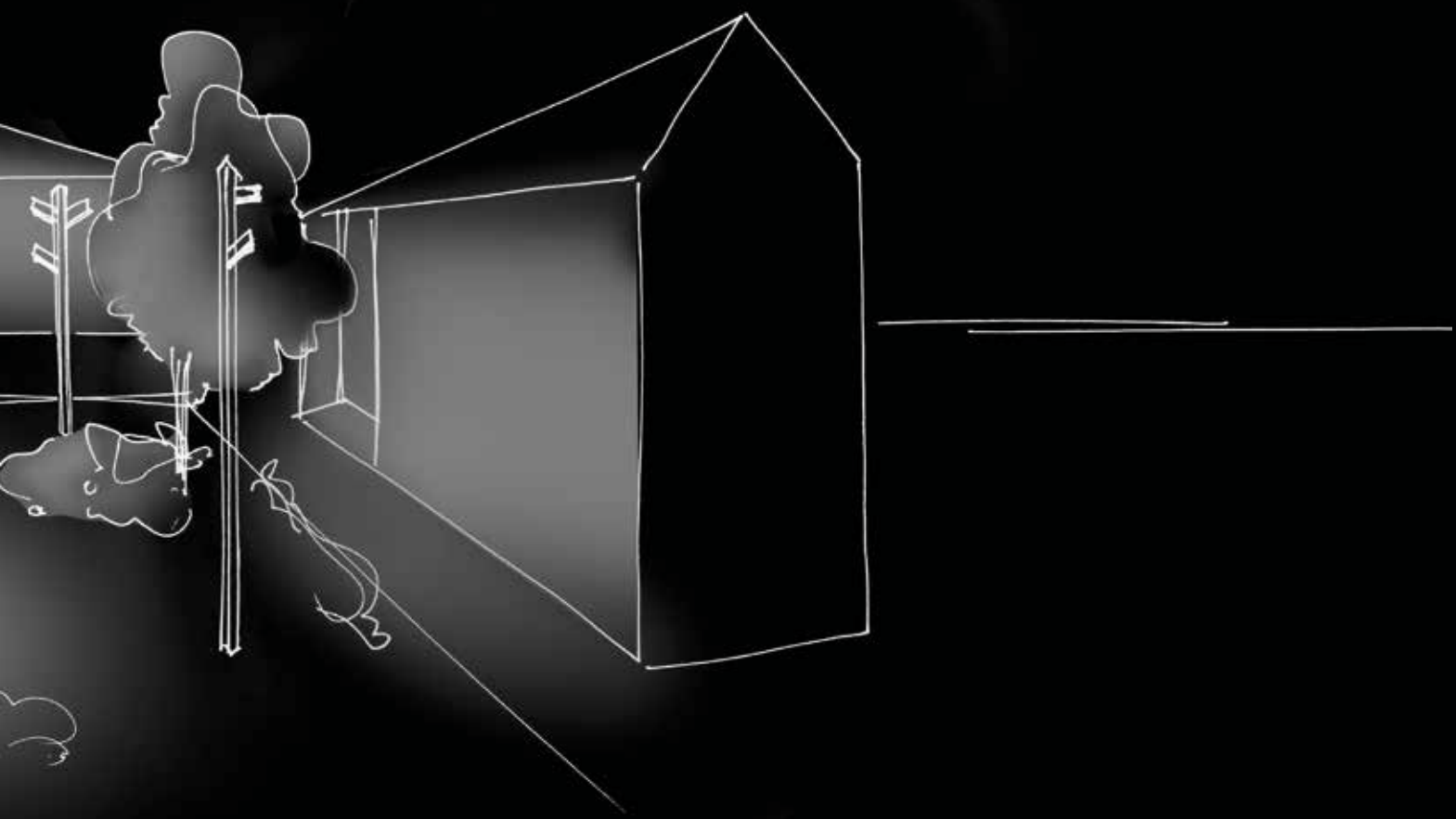


A toolbox for different urban applications _

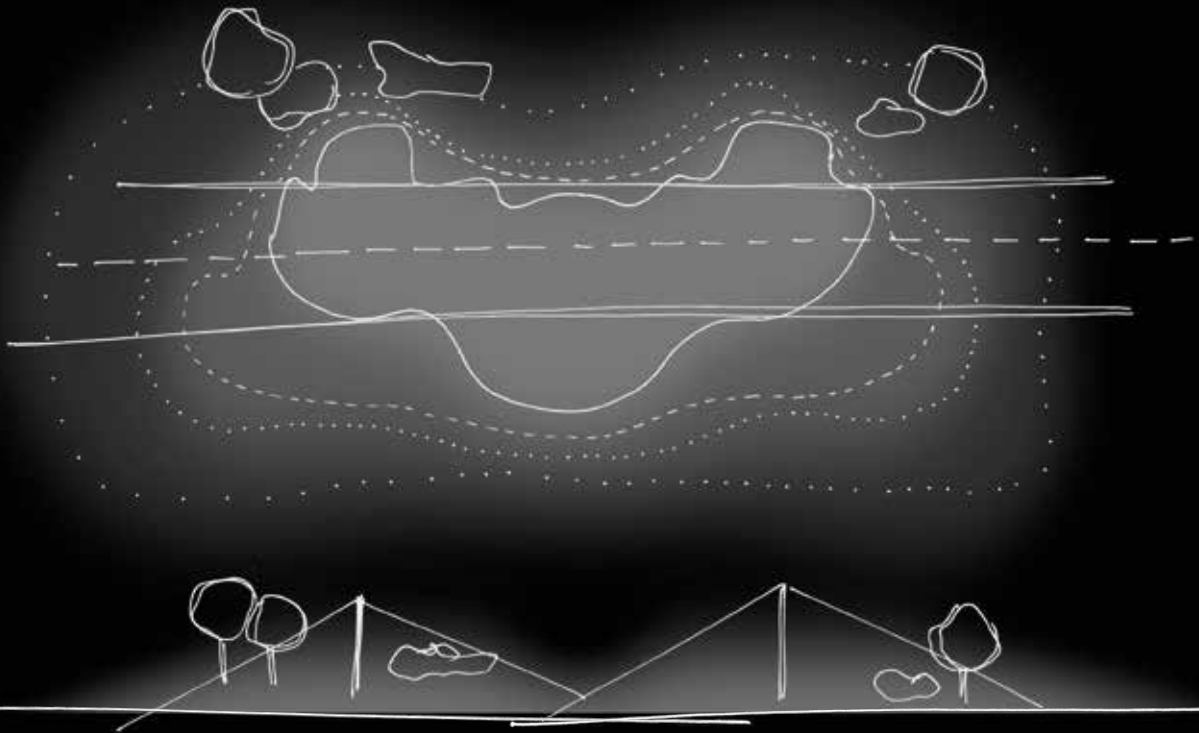
Illuminating the street, the park, objects and façades certainly requires varying optic characteristics, power, beam angle and so on. By definition it requires completely different luminaires and multiple poles.

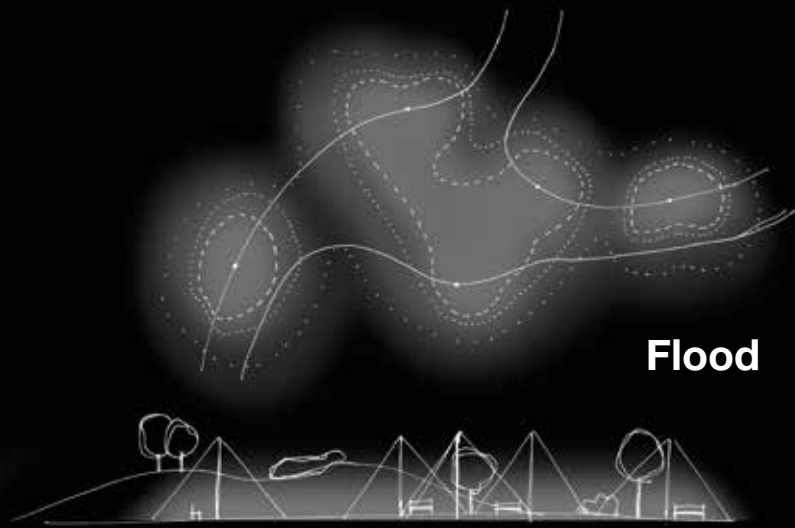
The Polesano is able to combine multiple functions in one pole. It is a modular toolbox combining best lighting optics with elegant design, enabling you to specific tailor your lighting around human and aesthetical needs.





Street
Asymmetric _





Flood

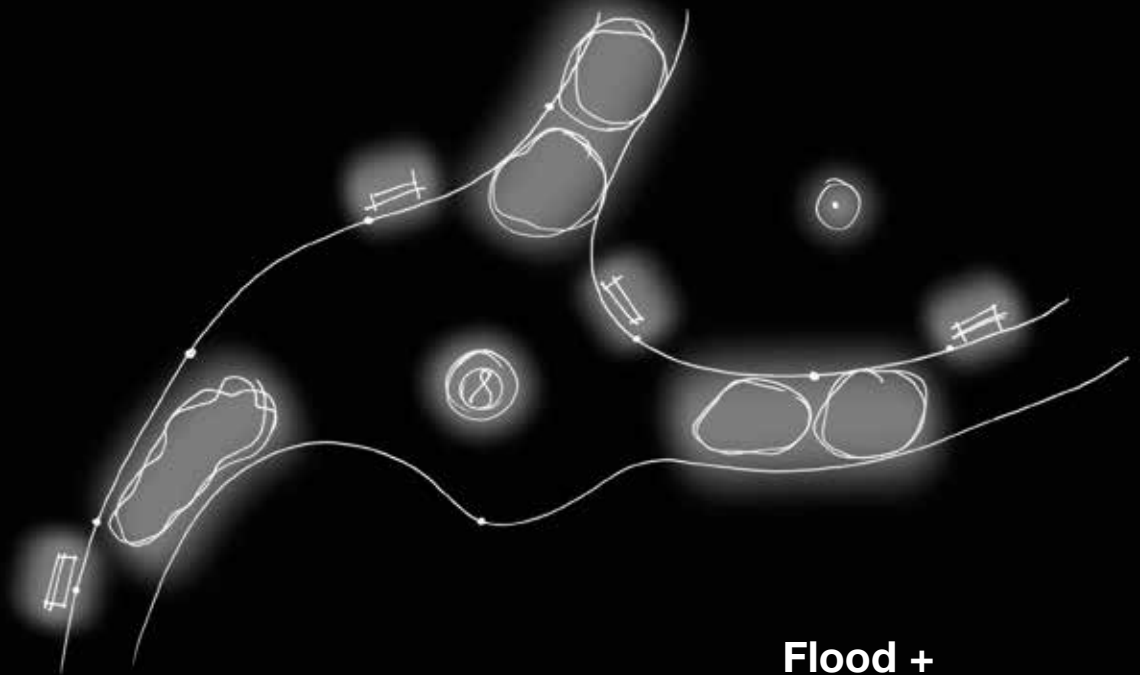


Medium



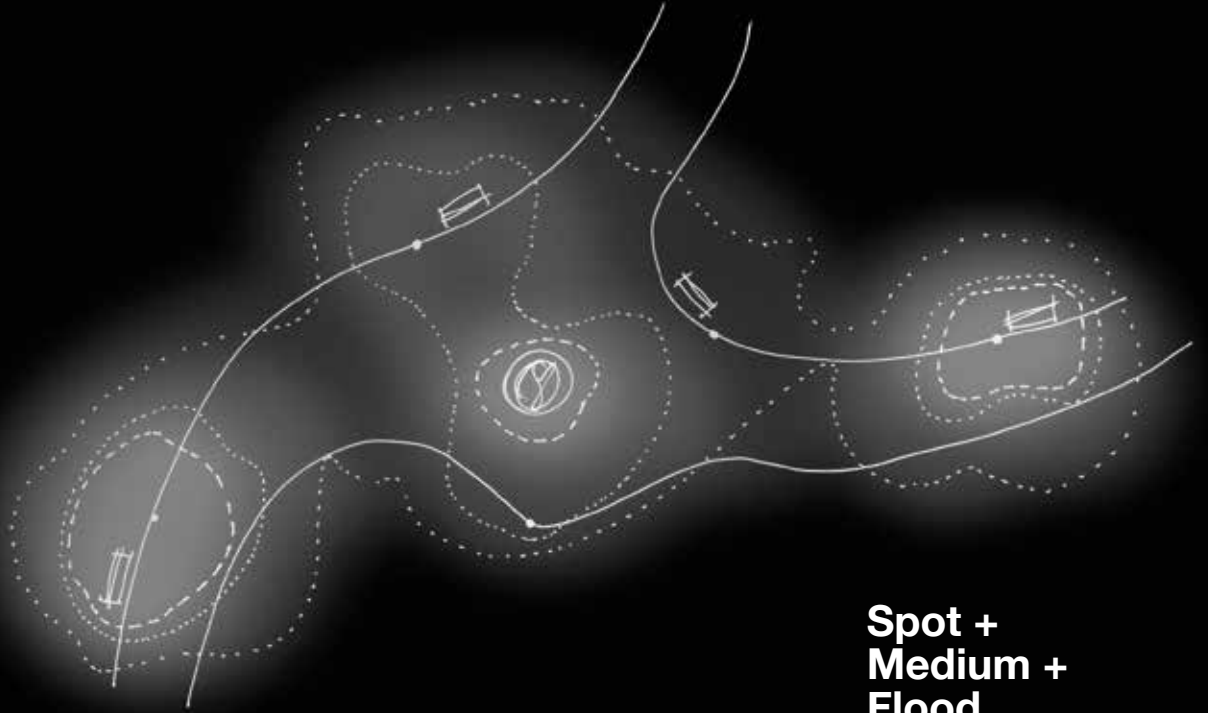
Spot

**Combined
Options_**



**Flood +
Spot**





**Spot +
Medium +
Flood**











Concrete, Steel, Light and Emotions

Lighting is dependent on architecture or the space in between, like music is dependent on silence among notes. The tension amid utilitarian and poetic gives light great power and therefore we can truly express ourselves only when designing lighting installations. Then the spirit of place Genius loci brings to us the decisive moment of inspiration to build the atmosphere of the place and its experiential quality.

At SKIRA we refer to light as to an intangible but powerful building material. By understanding light as an infinite voyager, we have developed skills to capture its journey.

Light is a complex fusion of forms intervened in our eyes. The form of light, the form of shadow, the form of the illuminated object and the form of consequence together blend the material and non-material elements of space which condition our perception influencing our biological and emotional sensibility. In this sense, when we talk about animism, we could say that light is a container of soul within its idiosyncratic form.

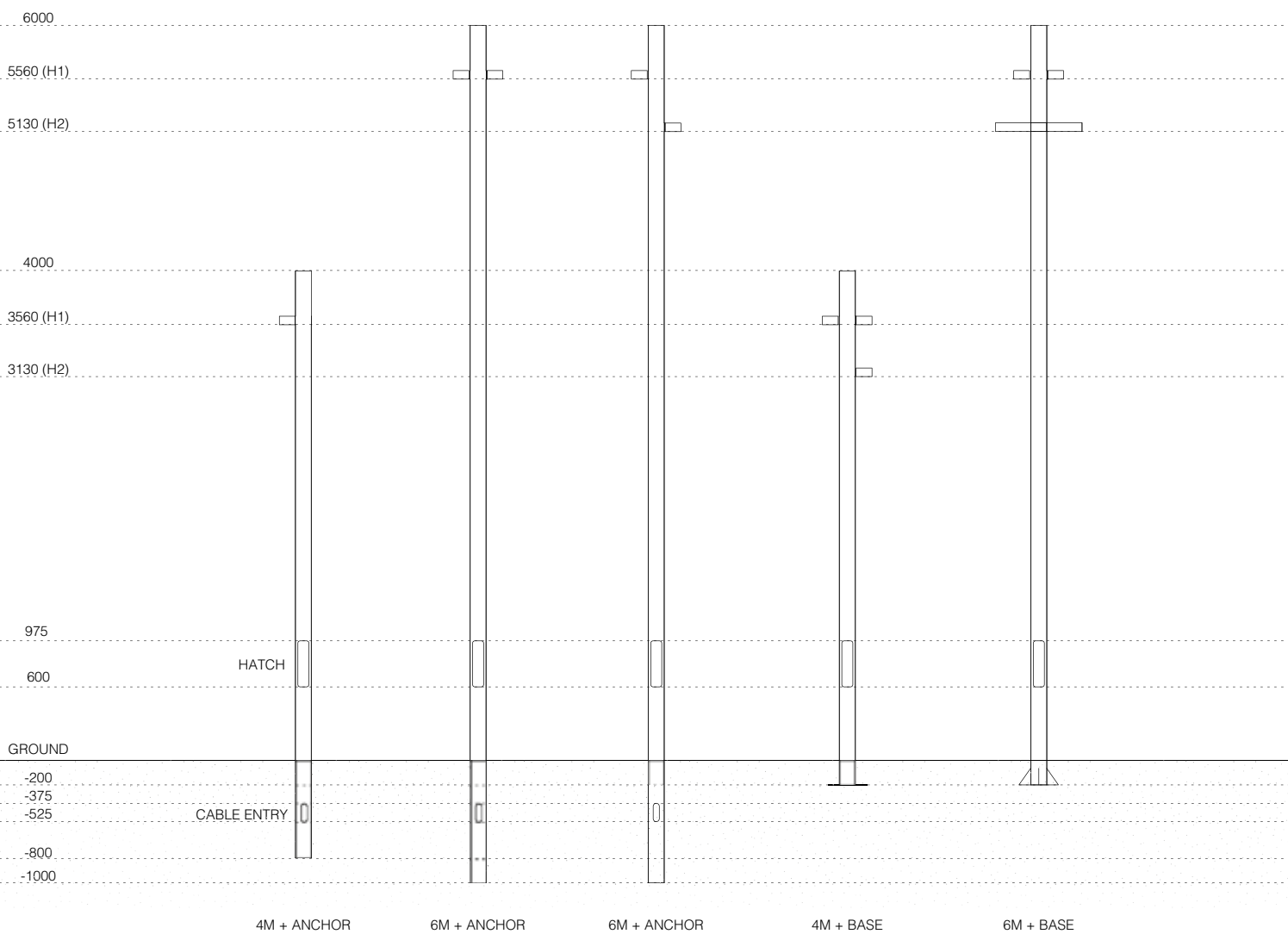
DEAN SKIRA —

Standard Configurations _

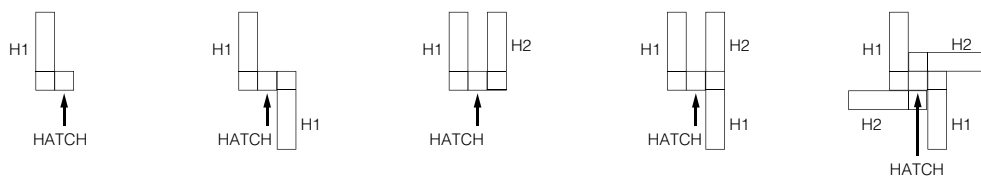
Within the Polesano Range, some standard configurations are offered, both for the pole and the luminaire.

A pole height of 4m or 6m can be chosen, either with anchor or base as installation possibilities.

Both heights allow you to have up to 4 luminaires to be mounted in standard combinations, as shown below.



HEAD COMBINATIONS (TOPVIEW) :
(POSSIBLE WITH ALL TYPES OF POLE)





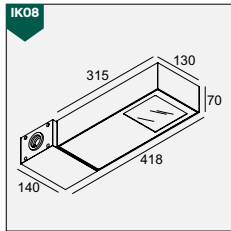
Graduated scale with 5° steps on both horizontal and vertical axis for better alignment of luminaires.



POLESANO

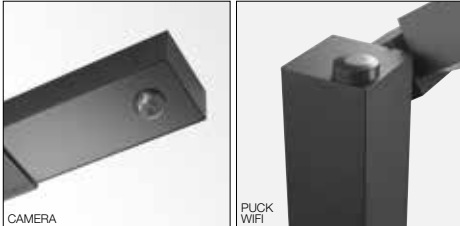
TYPE	lm	CRI	K	°
43
43				
120-277V / 50-60Hz				

TYPE		LUMEN PACKAGE		CRI		COLOUR TEMPERATURE		LIGHT DISTRIBUTION		FINISH
TYPE		lm		CRI		K		°		◇
1	ADJUSTABLE	1	4481lm / 42W	7	CRI > 70 (ON REQUEST)	3	3000K	1	SPOT 13°	N-B
				8	CRI > 80	4	4000K	2	MEDIUM 47°	A-B
								3	FLOOD 63°	
								4	STREET LIGHT	



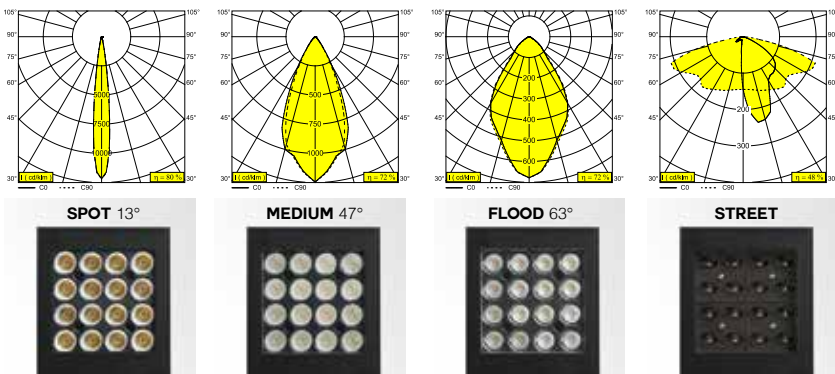
ACCESSORIES
 HONEYCOMB S105 ◇ ▶ 431 03 01 B
 LINEAR SPREAD LENS S105 ▶ 431 03 02

ON REQUEST

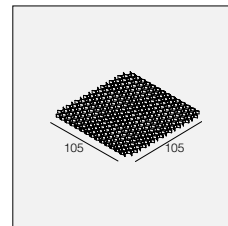


Next to lighting, the evolution in public infrastructure and IoT often asks for additional specifications such as video surveillance, speakers, wifi connection, USB chargers, ... On request, our R&D team can have a closer look into your specific project if one of these extras is required.

PHOTOMETRICS



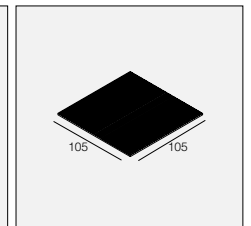
HONEYCOMB S105



431 03 01 ◇

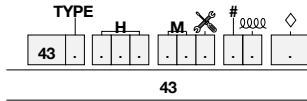
◇ B

LINEAR SPREAD LENS S105



431 03 02

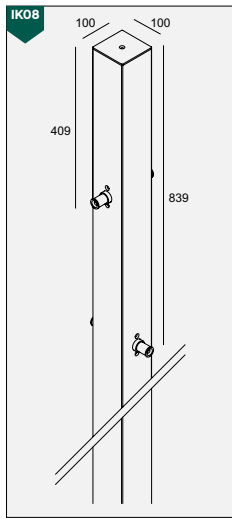
POLESANO POLE



120-277V / 50-60Hz
INCL. 1 x CABLE H05 RN-F 2 x 1mm² / LUMINAIRE

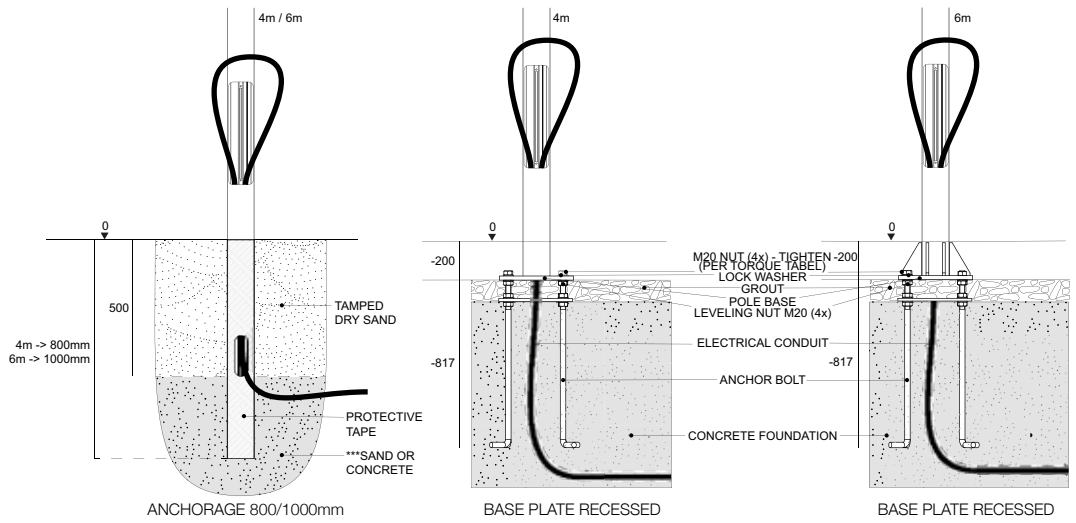
CE [4,4] /m IP54

TYPE		HEIGHT	MOUNTING TYPE		SERVICE	# HEAD COMBINATIONS		WIRING	FINISH			
TYPE		H	M			#						
1	POLE	400	4000mm	11	ANCHORAGE 800mm	1	1 HATCH	1	1 LUMINAIRE	0	NO WIRING*	N
				22	BASE PLATE RECESSED			21	2 LUMINAIRES 1 LEVEL	1	INCL. WIRING	A
		600	6000mm	12	ANCHORAGE 1000mm	22	2 LUMINAIRES 2 LEVELS	3	3 LUMINAIRES			
				32	BASE PLATE RECESSED	4	4 LUMINAIRES					

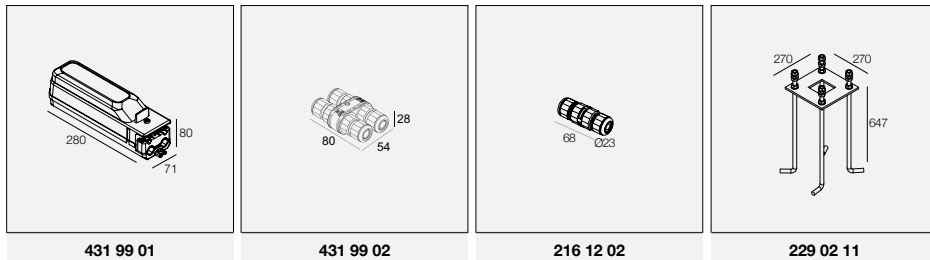


- OPTIONS**
 FUSE BOX
 IP68 JUNCTION BOX
 IP68 CONNECTOR 3P
 PLATE 11 (ONLY FOR VERSION WITH BASE PLATE)

ALL ELECTRICAL CONNECTION NEED TO COMPLY WITH IP53 REGULATIONS
 * ON REQUEST

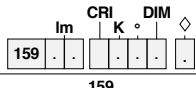


FUSE BOX IP68 JUNCTION BOX IP68 CONNECTOR 3P PLATE 11



INCL. 2 x FUSE 4A

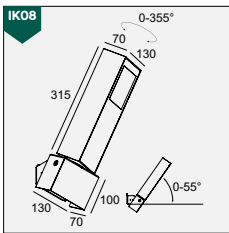
POLESANO WALL



LUMEN PACKAGE		CRI		COLOUR TEMPERATURE		LIGHT DISTRIBUTION		DIMMING		FINISH
Im		CRI		K		°		°		◇
159		7	CRI > 70 (ON REQUEST)	3	3000K	1	SPOT 13°	0	NON DIM	N-B
	31	4481lm / 42W	8	CRI > 80	4	4000K	2	MEDIUM 47°		
							3	FLOOD 63°		
							4	STREET LIGHT		

120-277V / 50-60Hz

CE 4,8 IP66

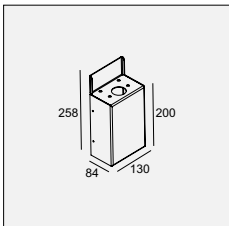


OPTIONS
FLOOR BASE ◇ ▶ 15932 0010 N

ACCESSORIES
HONEYCOMB S105 ◇ ▶ 431 03 01 B
LINEAR SPREAD LENS S105 ▶ 431 03 02



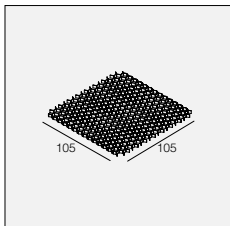
FLOOR BASE



15932 0010 ◇

◇ N

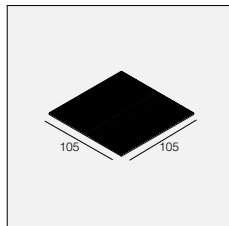
HONEYCOMB S105



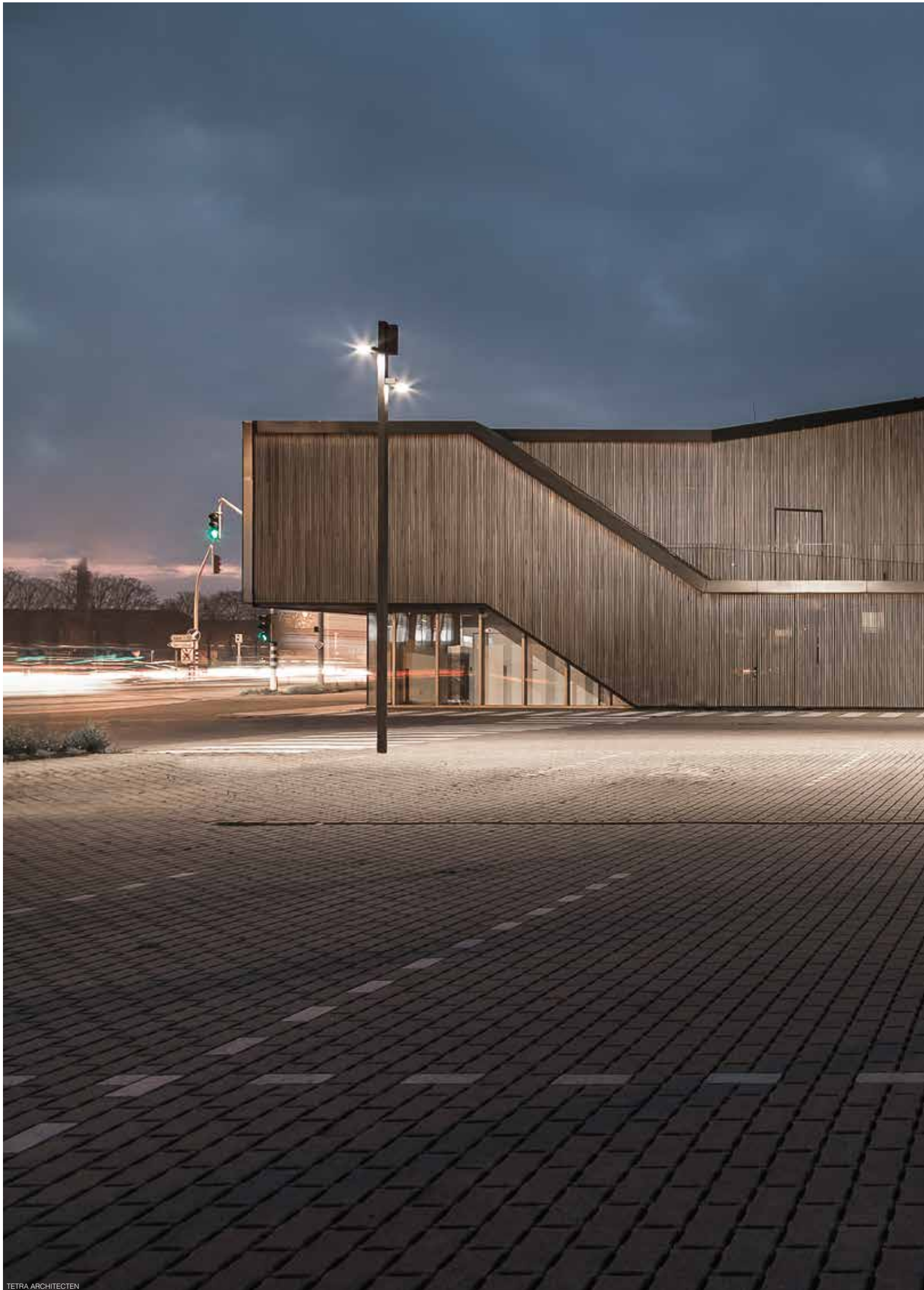
431 03 01 ◇

◇ B

LINEAR SPREAD LENS S105



431 03 02





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