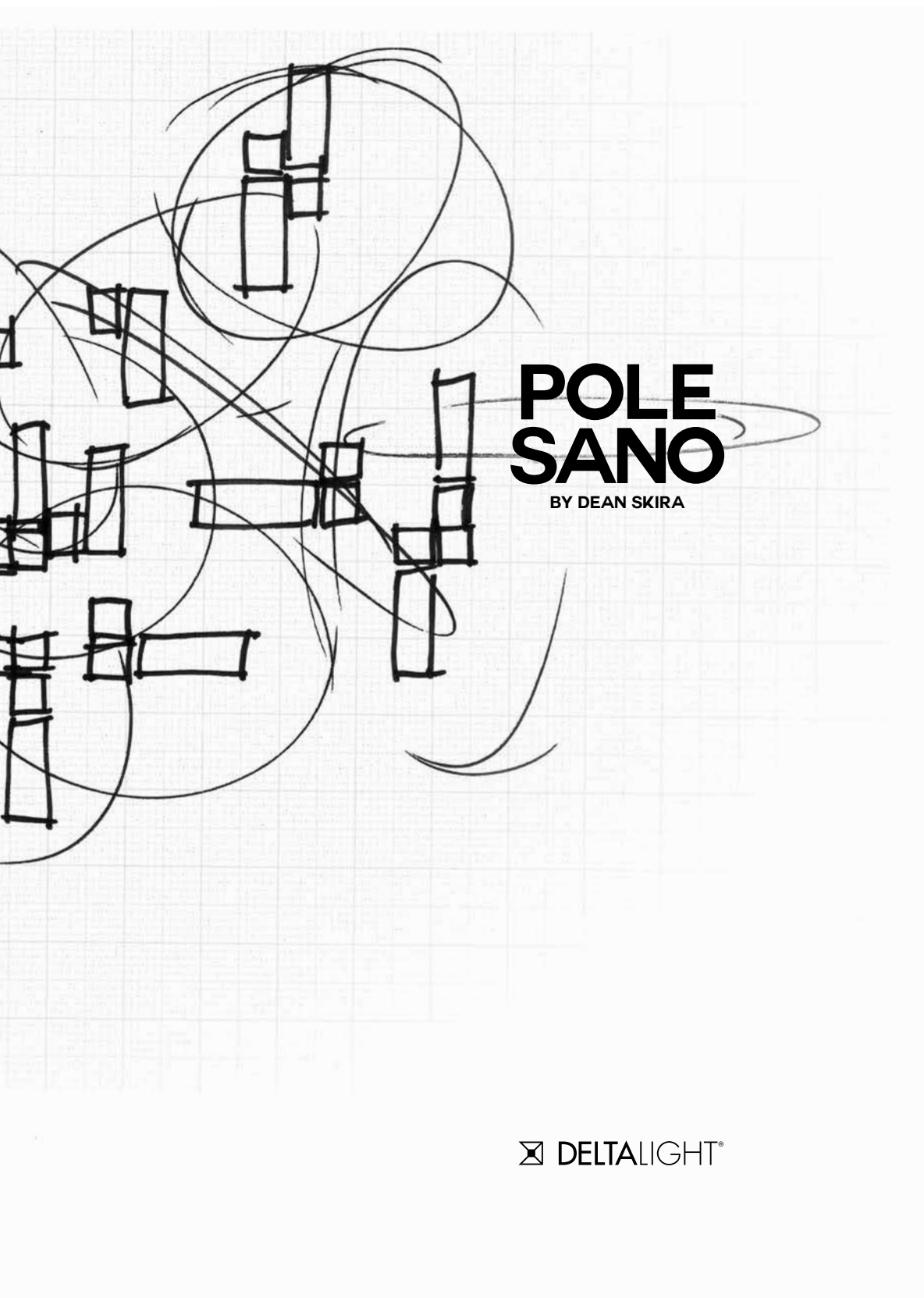




POLE SANO

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 aesthetical 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

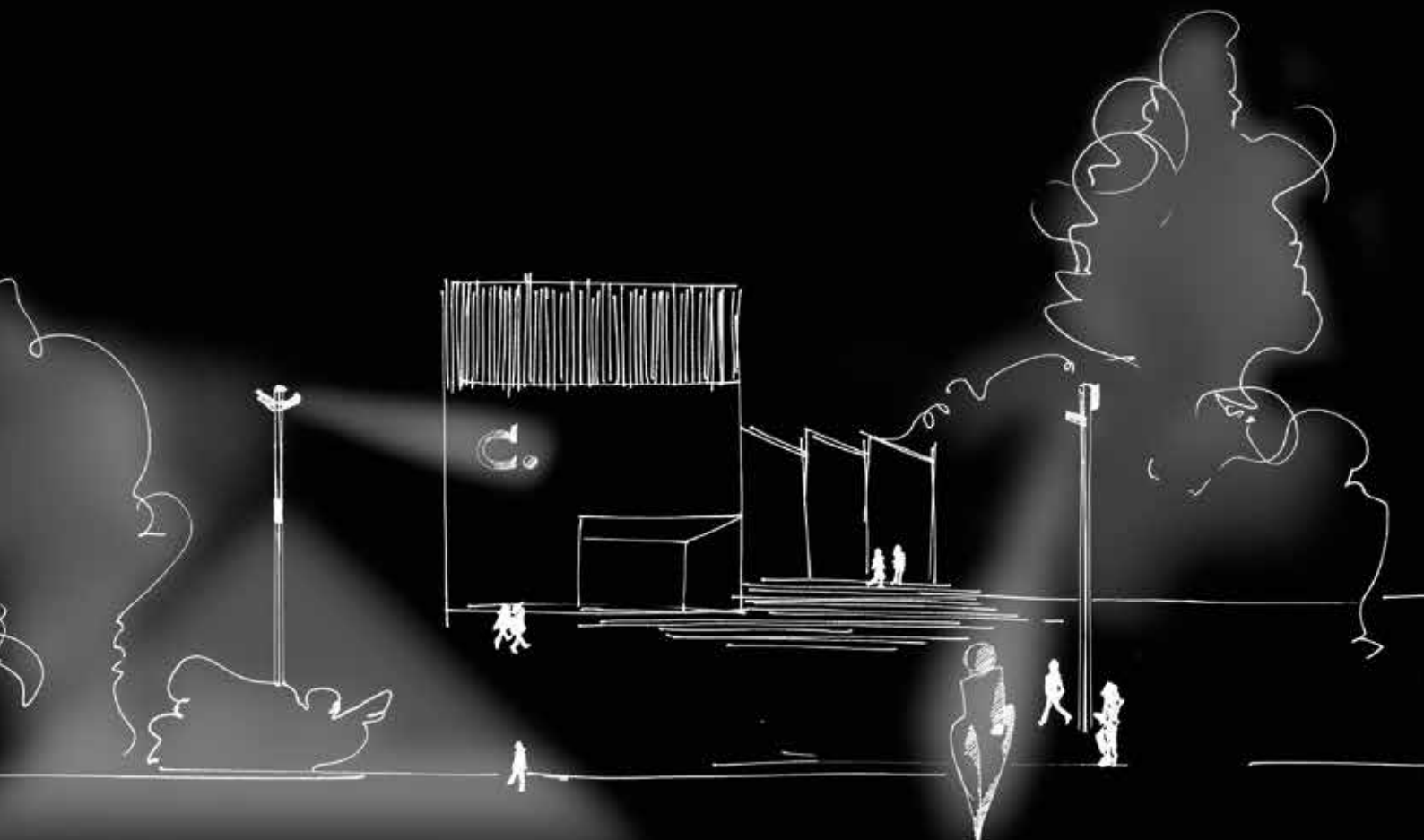
Urban fabric is a complex set of architectural, historical, cultural, commercial, spatial and functional requirements for inhabitants. Connective tissue in an urban setting is unthinkable nowadays without light that follows vehicles, pedestrians, landscape or vertical surfaces in any given type of area throughout nocturnal communication.

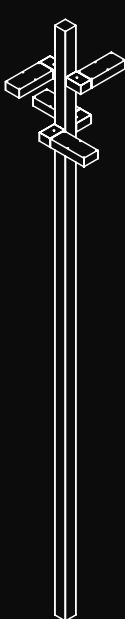
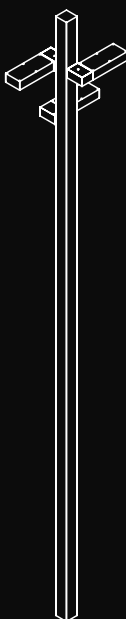
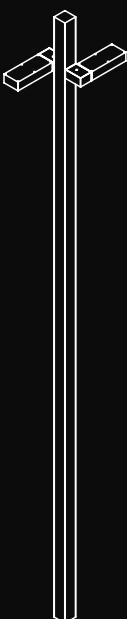
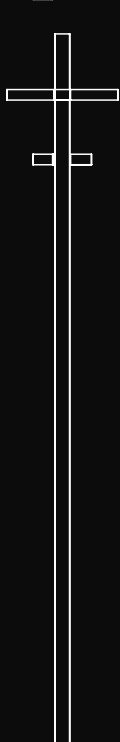
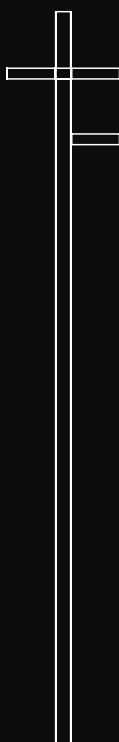
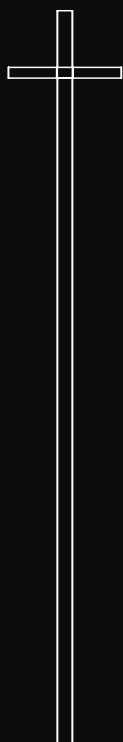
The main purpose of urban lighting is to secure safety and fulfill essential functions. At the same time it can enhance landscape design, increase social interaction and upgrade orientation. Historically we had a pole which was holding a luminaire at a certain height to provide light according to its 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.

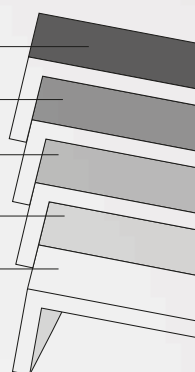
Finishing and protection layer
Layer thickness process + control test

Passivation process + control test

Etching process + control test

High grade pure aluminium alloy,
lowest contaminant grade
Cleaning and degreasing + control test

1000h filiform
corrosion test:
successfully passed



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.







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

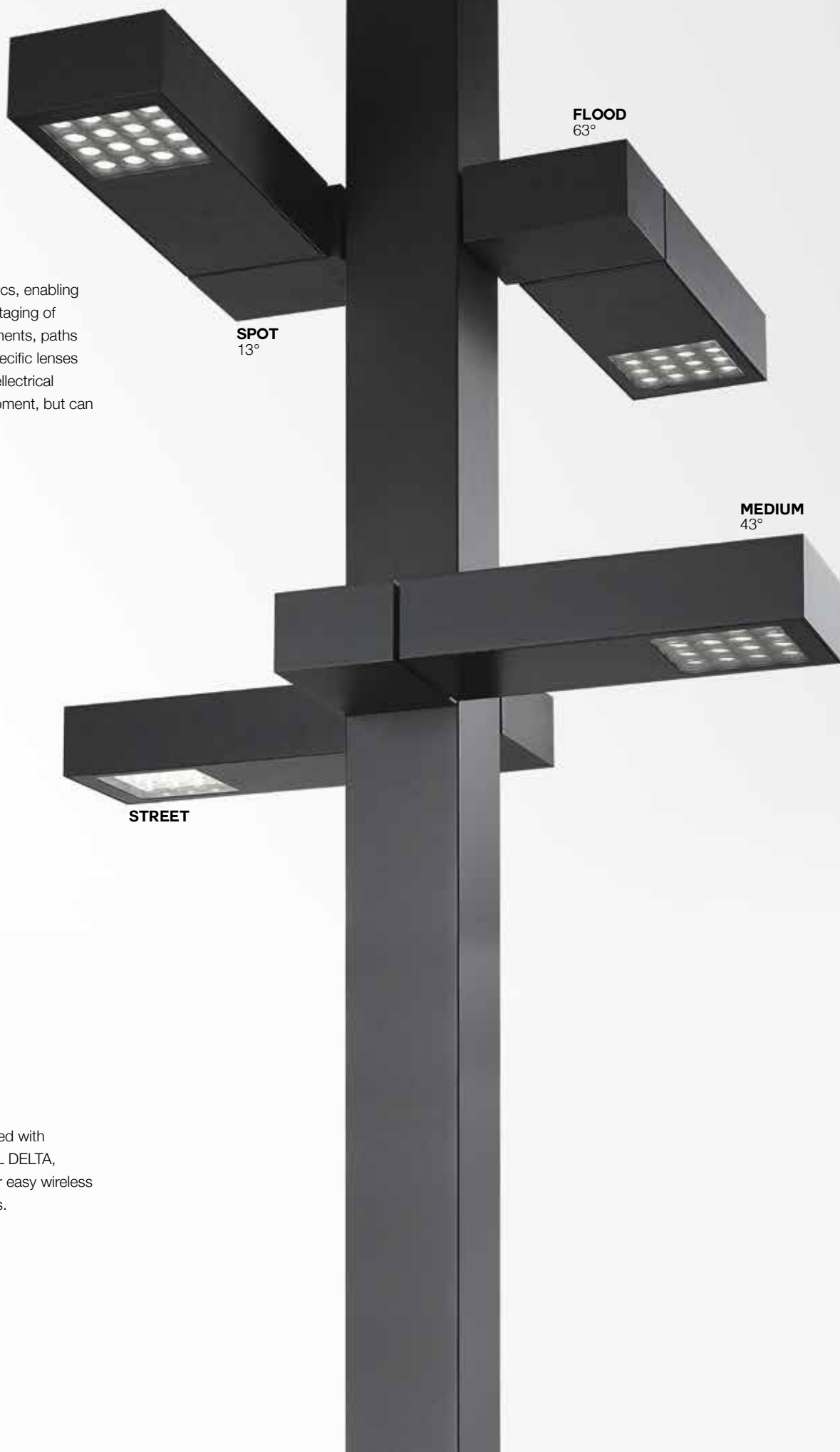
The connection box is the link between pole and luminaire head. Apart from the electrical connector, it also contains the two hinges that can be used to tilt and/or rotate the luminaire head and fine tune the light effect.

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.

**— The main idea of
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create a 'device'
which can provide all
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become one body —**

Precise Optics__

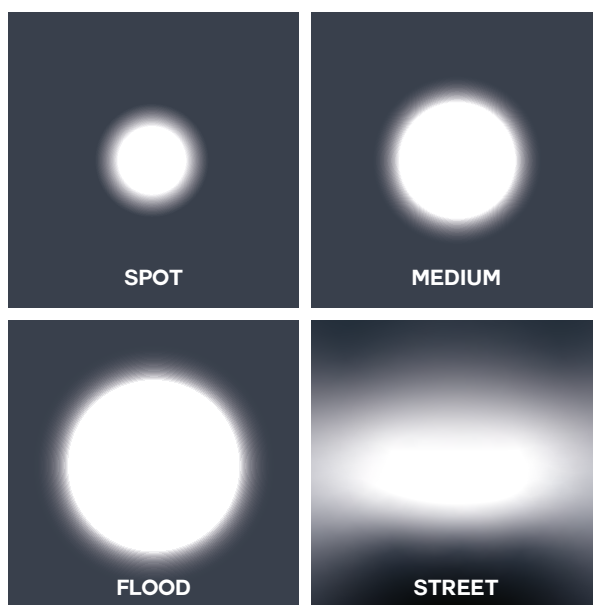
Polesano comes in 4 optics, enabling precise illumination and staging of buildings, decorative elements, paths and streetways. Other specific lenses with an asymmetrical or elliptical distribution are in development, but can be asked for on request.

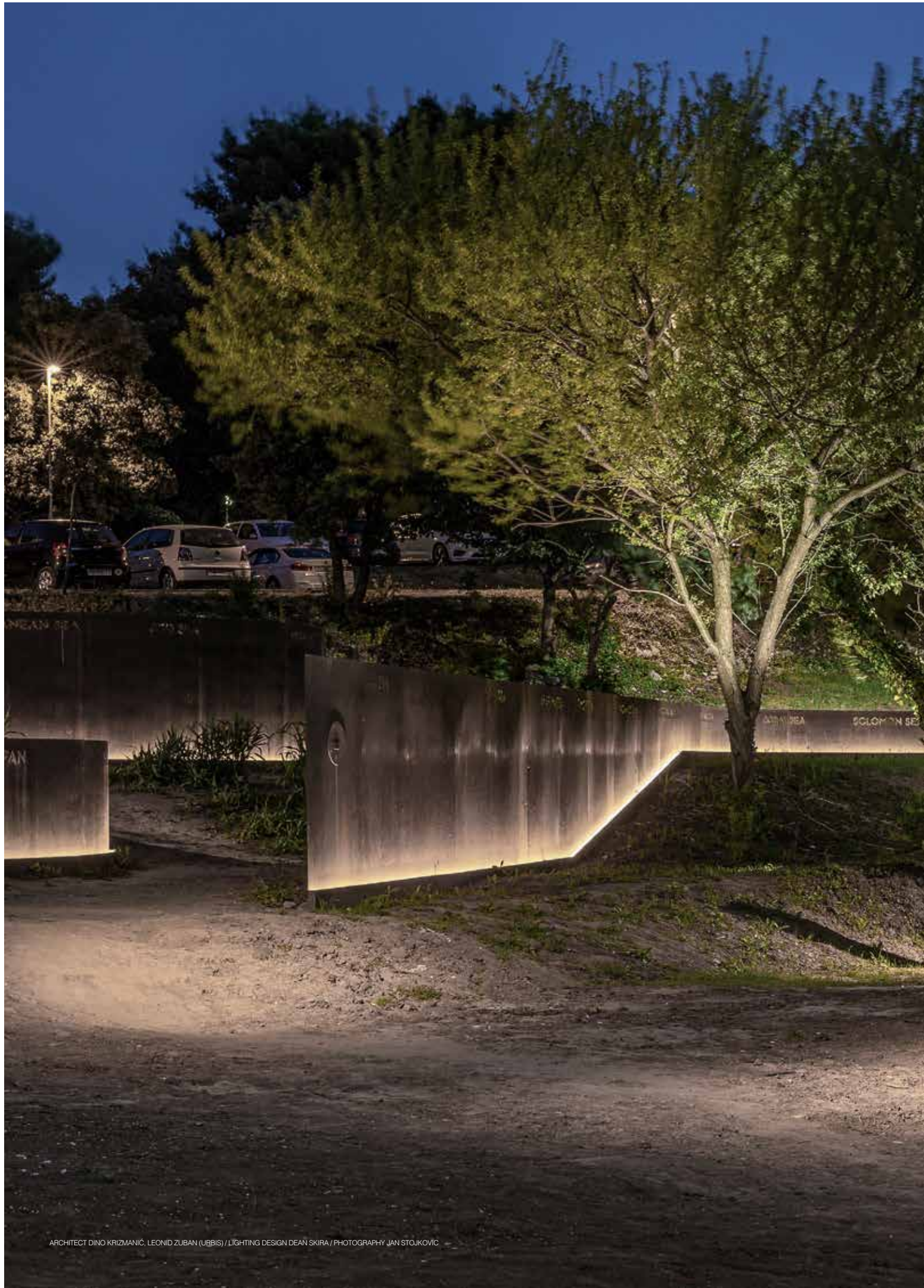


Polesano can be combined with Delta Light's unique CTRL DELTA, a user-friendly solution for easy wireless control via mobile devices.

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.

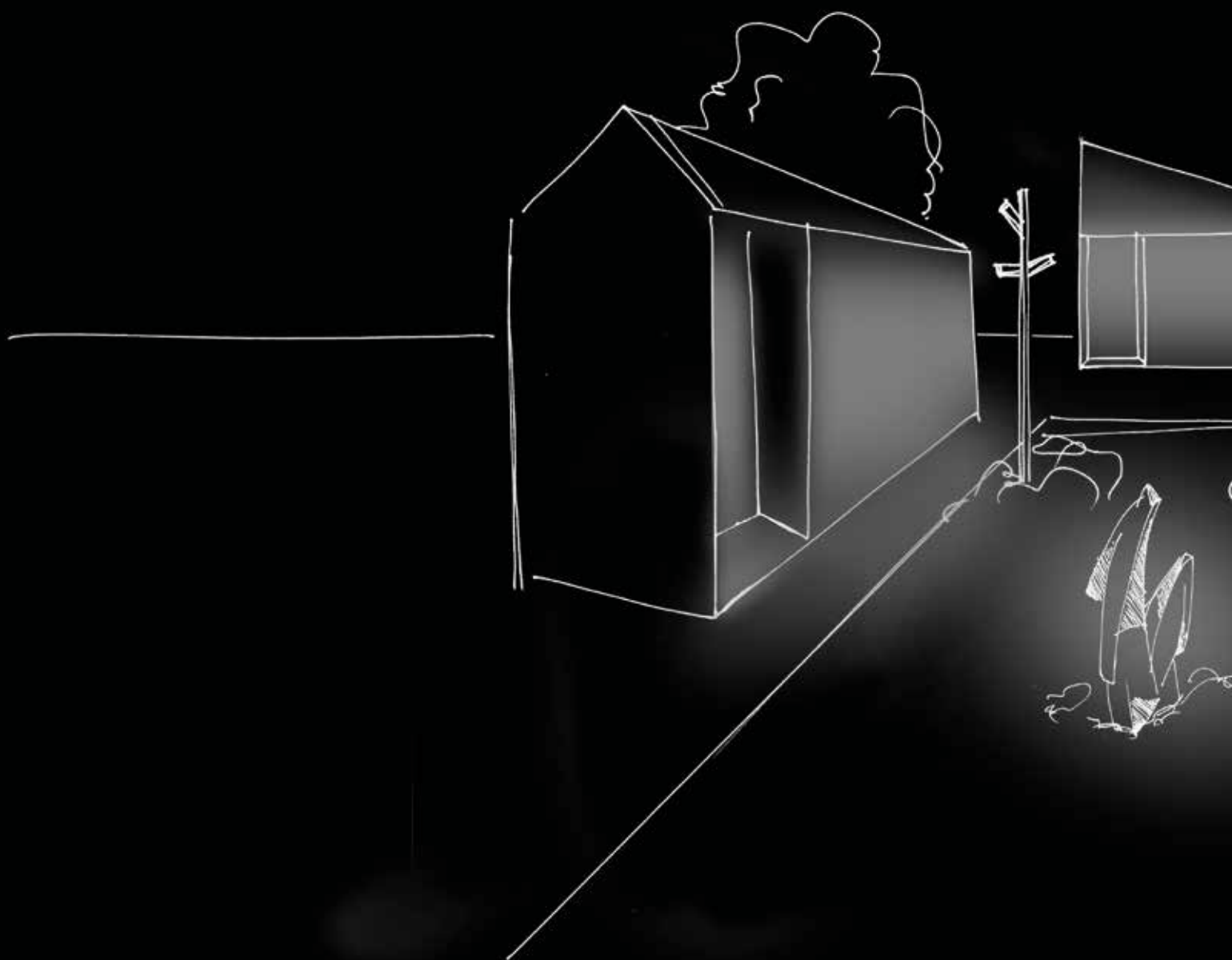


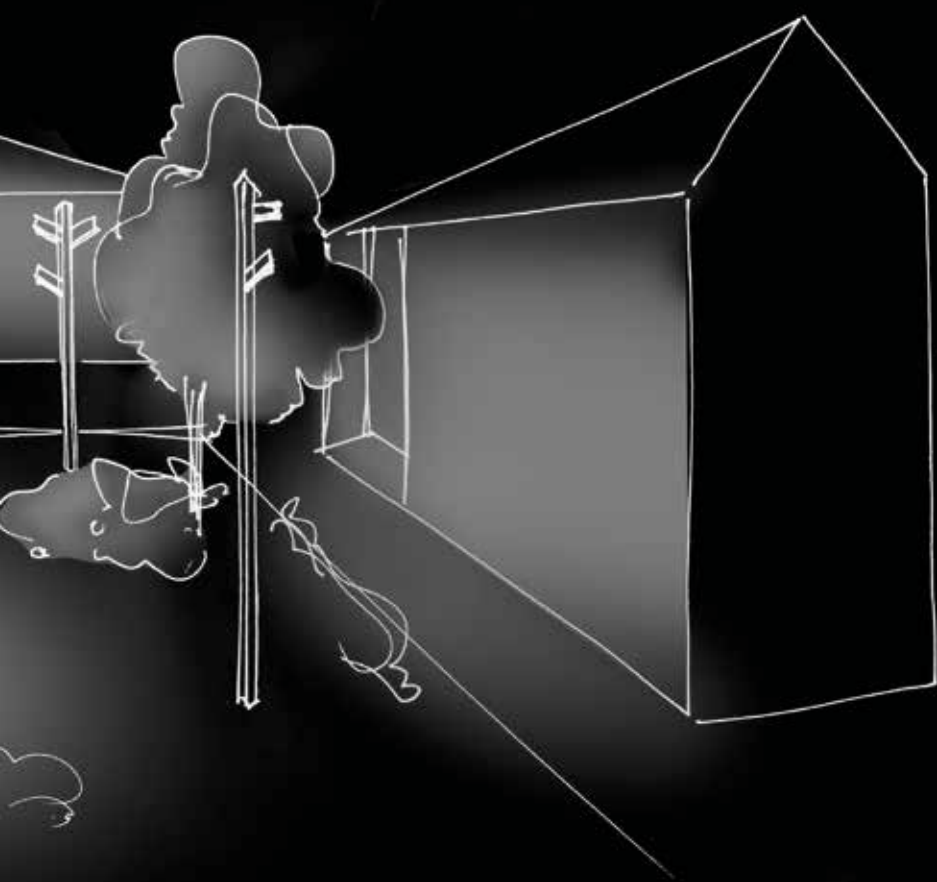




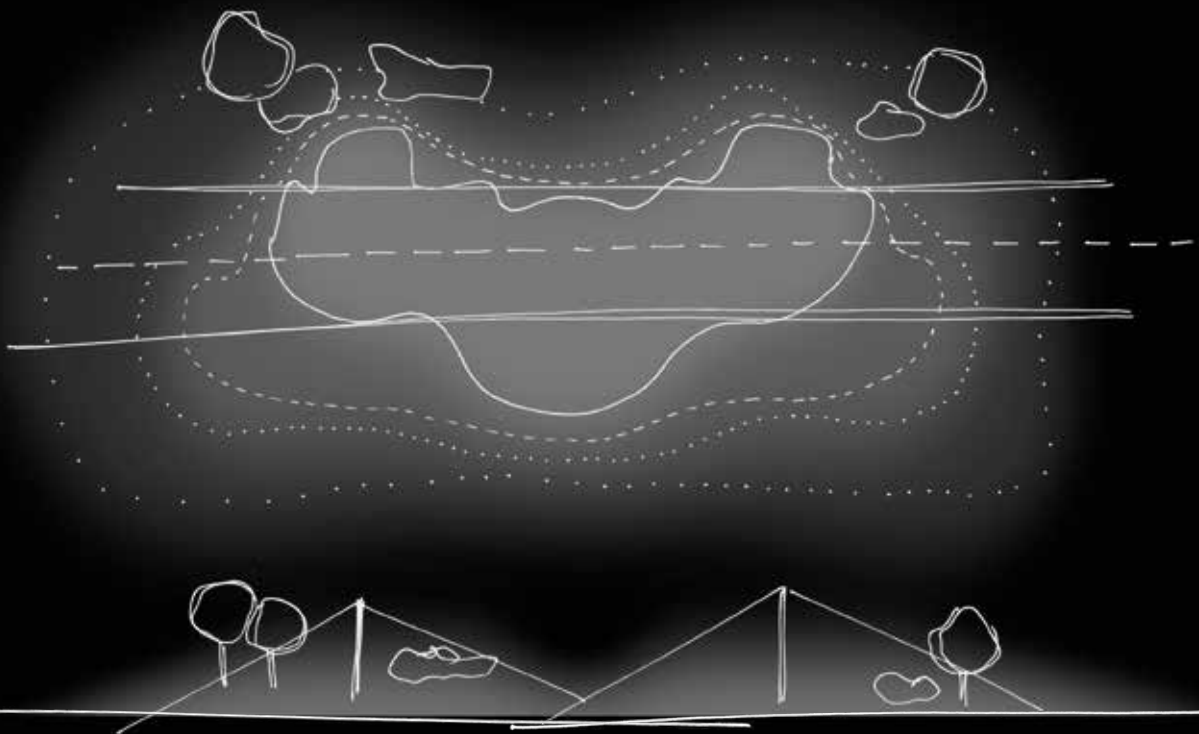
A toolbox for different urban applications__

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.



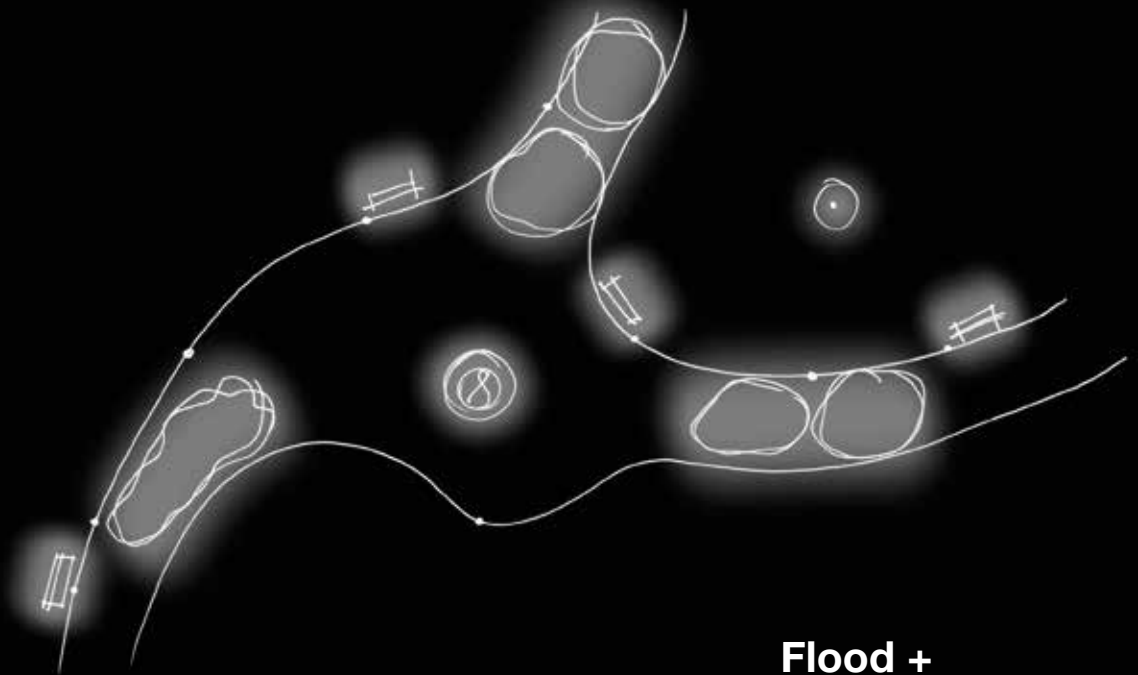


Street
Asymmetric_



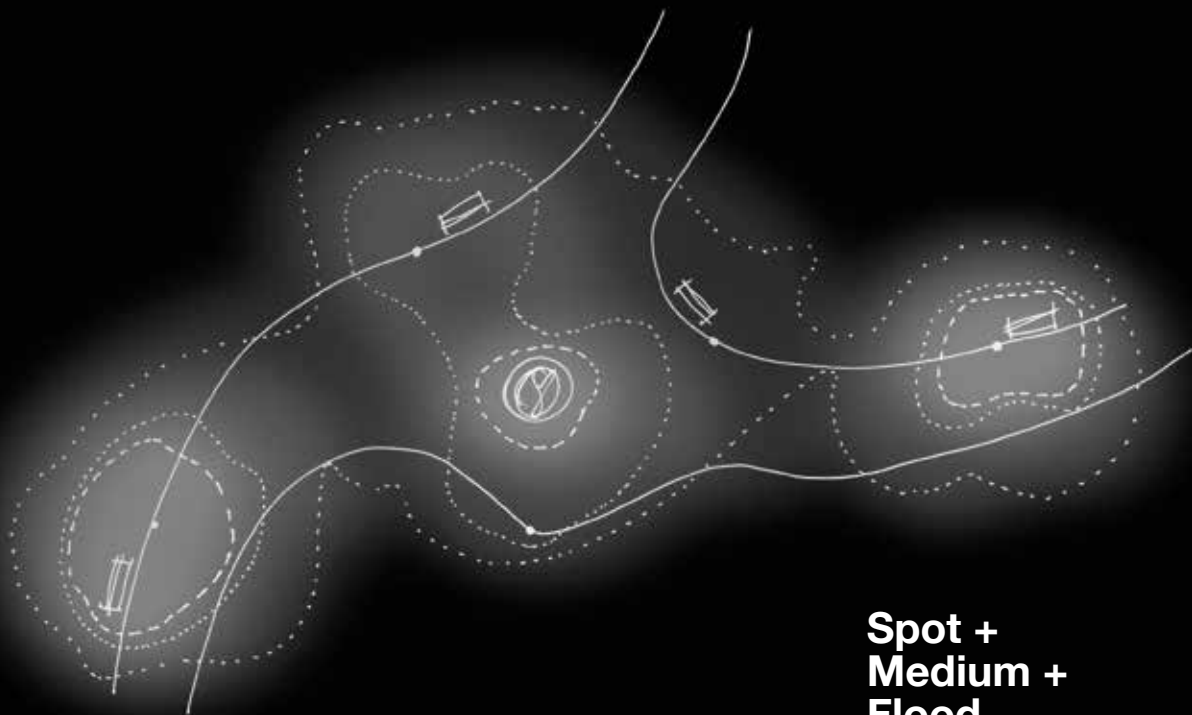


**Combined
Options_**



**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.

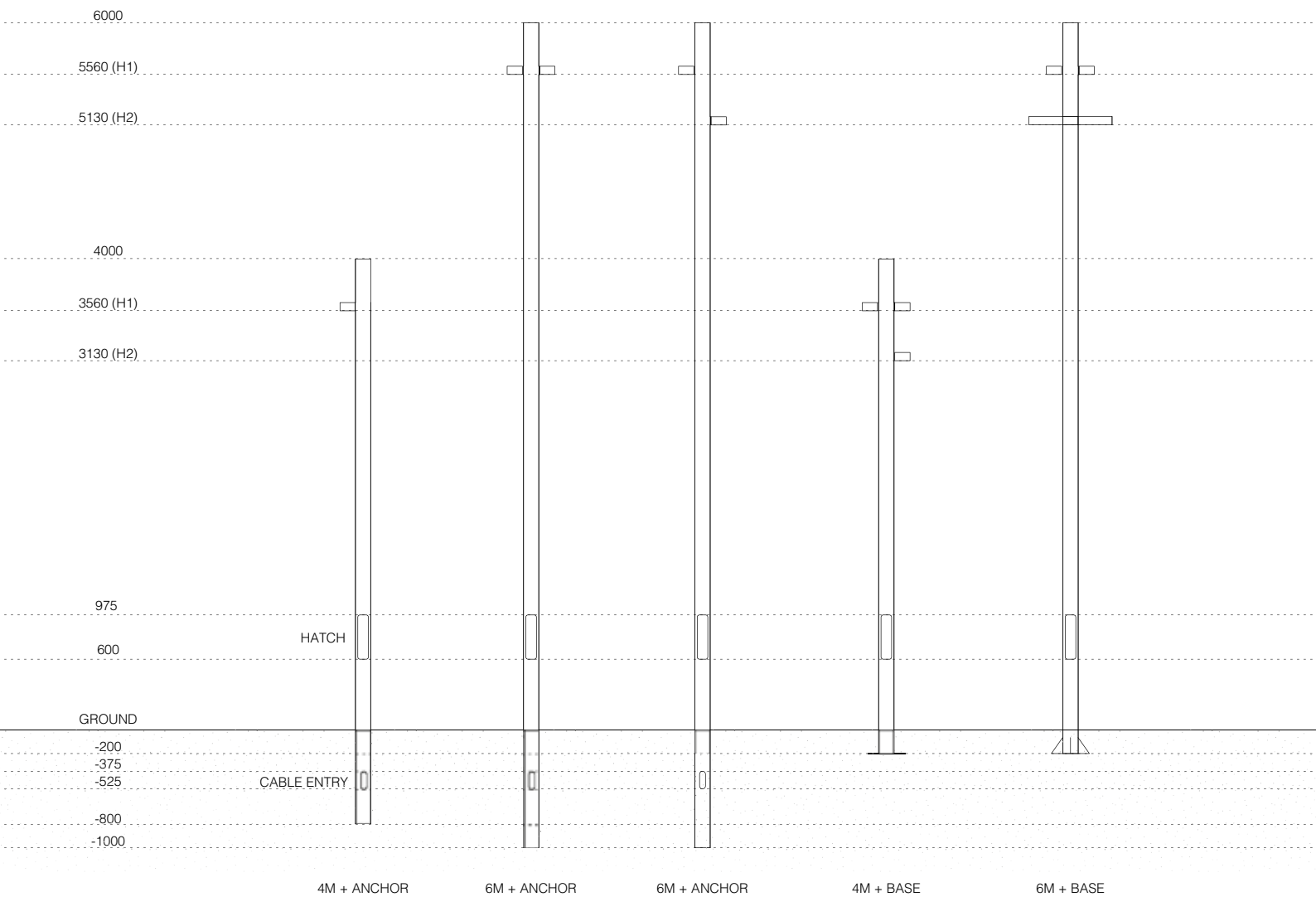
DEAN SKIRA —

Standard Configurations _

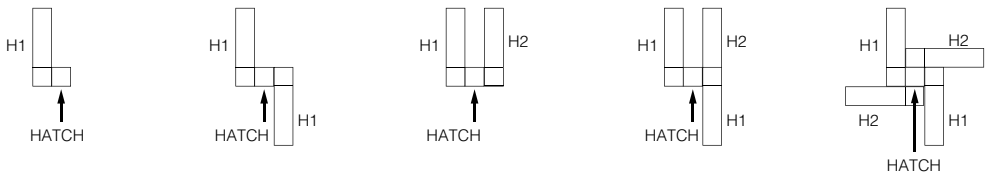
Within the Polesano Range, some standard configurations are offered, both for the pole and the luminaire.

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.



TYPE

Im

CRI

K

°

◇

43

-

-

-

-

-

◇

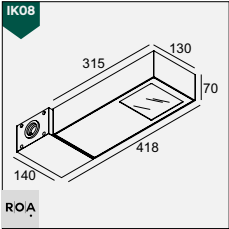
43

DALI-2 DIM
220-240V / 0/50-60Hz

◇

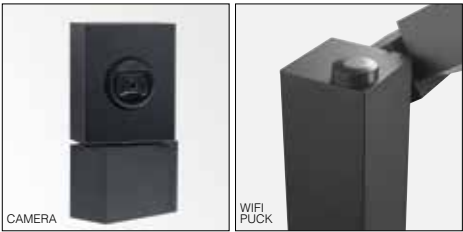
4,6

 IP66



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

TYPE		LUMEN PACKAGE		CRI		COLOUR TEMPERATURE		LIGHT DISTRIBUTION		FINISH
TYPE		Im		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	



POLESANO CAMERA

NEW

IK08

Ø70

160

265

130

70

15932 0020 ◇

◇ A-B / N-B

INCL.CABLE RJ45
POWER SUPPLY VIA POE/8W
IP66

POLESANO WIFI PUCK

NEW

Ø47

15

11

15932 0030

◇ A / N

INCL.CABLE RG58
IP65

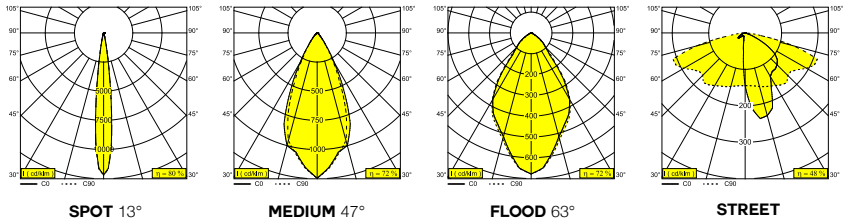
DETAILED INFO
POLESANO
CAMERA:



DETAILED INFO
POLESANO
WIFI PUCK:



PHOTOMETRICS



HONEYCOMB S105

105

105

431 03 01 ◇

◇ B

LINEAR SPREAD LENS S105

105

105

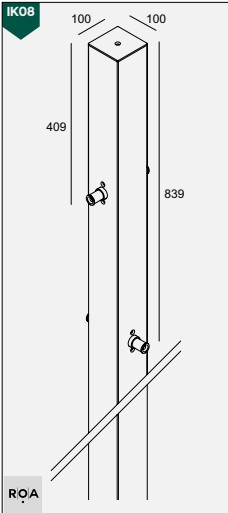
431 03 02

POLESANO POLE

TYPE									
43	.	H	.	M	.	#	0000	.	◇
43									

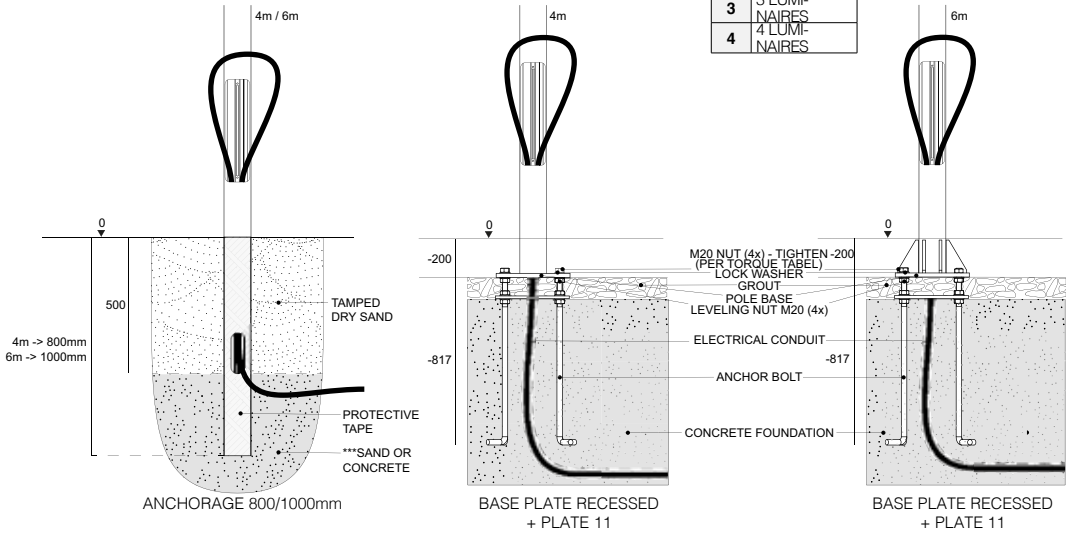
220-240V / 0150-60Hz
INCL. 1 x CABLE H05 RN-F 4 x 1mm² / LUMINAIRE
[4,4] /m IP54

TYPE		HEIGHT		MOUNTING TYPE		SERVICE		# HEAD COMBINATIONS		WIRING		FINISH		
TYPE		H		M				#						
NAIRE	POLE	400	4000mm	11	ANCHORAGE 800mm	1	1 HATCH	1	1 LUMINAIRE	0	NO WIRING*	N		
				22	BASE PLATE RECESSED			21	2 LUMI-NAIRES 1 LEVEL					
		600	6000mm	12	ANCHORAGE 1000mm								22	2 LUMI-NAIRES 2 LEVELS
				32	BASE PLATE RECESSED									

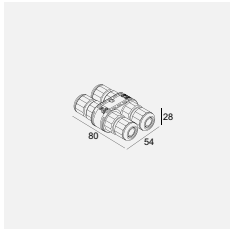


- OPTIONS**
FUSE BOX
IP68 JUNCTION BOX 4P
IP68 CONNECTOR 4P
PLATE 11 (ONLY FOR VERSION WITH BASE PLATE)

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

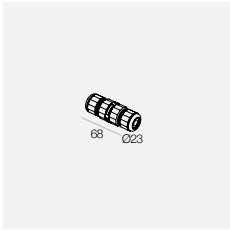


IP68
JUNCTION BOX 4P



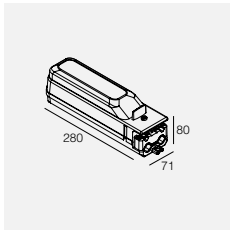
431 99 02

IP68
CONNECTOR 4P



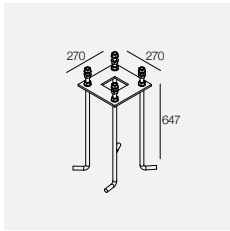
21034 0010

FUSE BOX



431 99 01

PLATE 11



229 02 11



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

INCL.2 x FUSE 4A

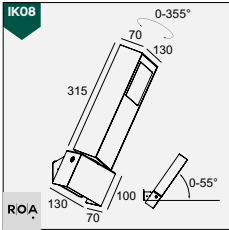
POLESANO WALL

DESIGN BY DELTA LIGHT® & DEAN SKIRA

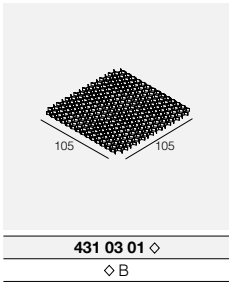
LUMEN PACKAGE		CRI		COLOUR TEMPERATURE		LIGHT DISTRIBUTION		DIMMING		FINISH
lm		CRI		K		°		°		◇
159		7	CRI > 70 (ON REQUEST)	3	3000K	1	SPOT 13°	0	NON DIM	N-B
31	4481lm / 42W	8	CRI > 80	4	4000K	2	MEDIUM 47°			
						3	FLOOD 63°			
						4	STREET LIGHT			

220-240V / 0150-60Hz

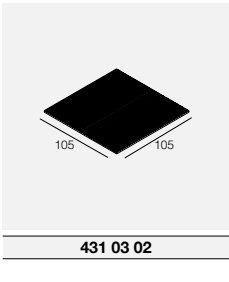
◇ CE 4,8 IP66



HONEYCOMB S105



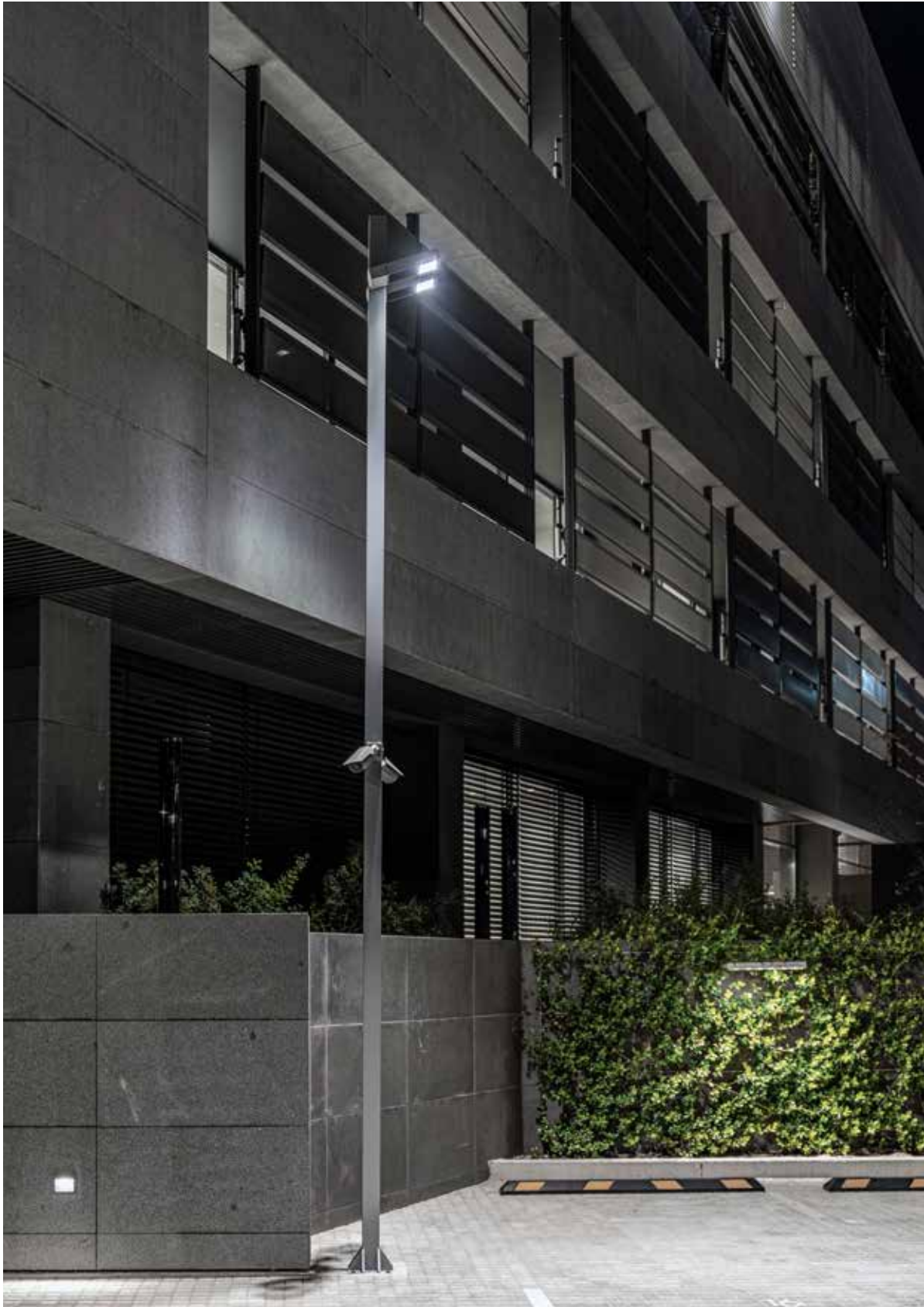
LINEAR SPREAD LENS S105



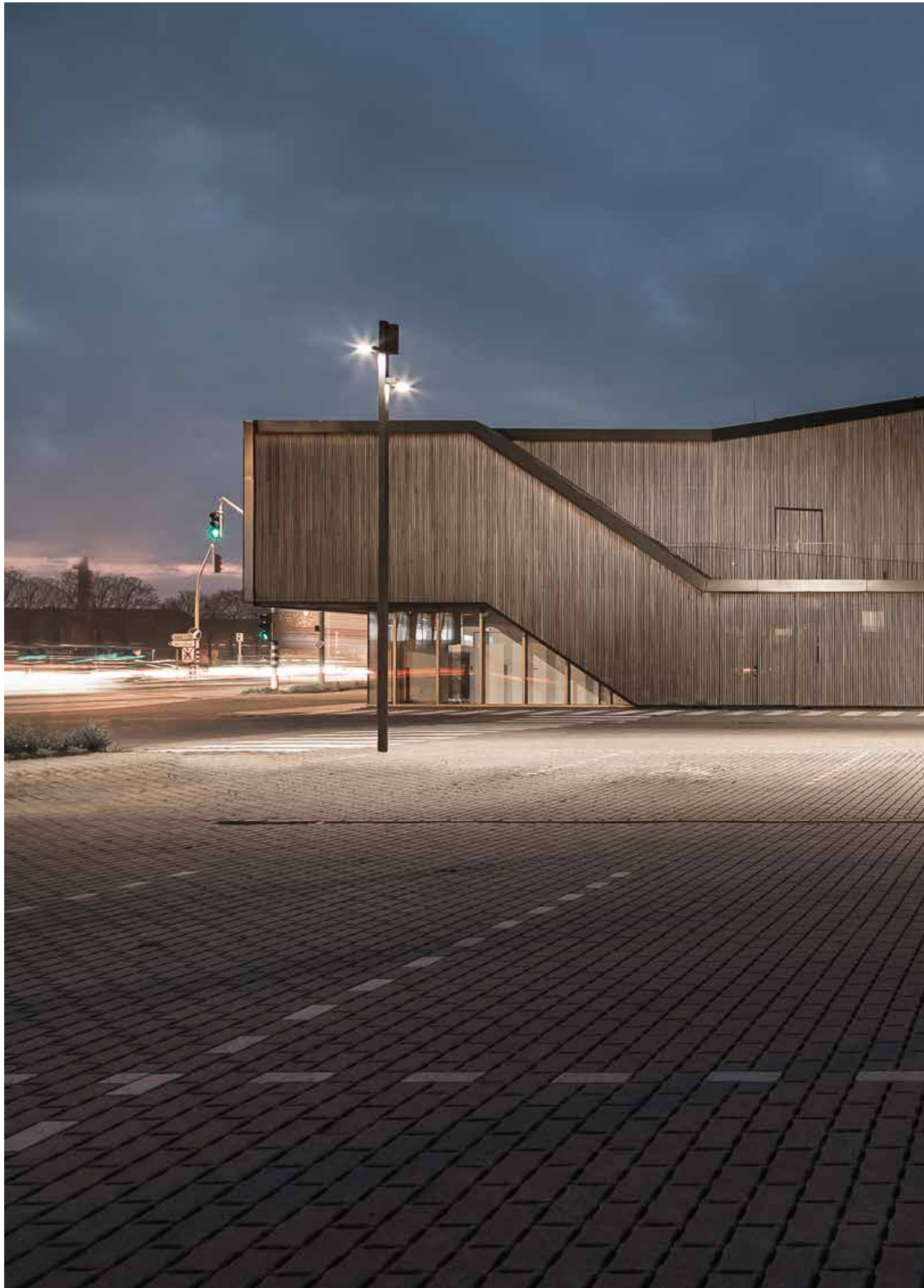
ACCESSORIES
HONEYCOMB S105 ◇ ▶ 431 03 01 B
LINEAR SPREAD LENS S105 ▶ 431 03 02







ARCHITECT ISV ARCHITECTS / INTERIOR DESIGNER NELLY SFAKIANAKI ARCHITECTURE & INTERIOR DESIGN /
LANDSCAPE DESIGN H. PANGALOU & ASSOCIATES LANDSCAPE ARCHITECTS / LIGHTING DESIGN FOSS S.A. LIGHTING DESIGN /
PHOTOGRAPHY GAVRIIL PAPADOTIS (WWW.GAVRIILUX.COM)





DELTA LIGHT.COM

www.deltalight.com/POLESANO

