KORNER

MULTIFUNCTIONAL
MODULAR
BOLLARD

01/09/23: Information subject to change without notice

*Regulation specific to France: Decree of 27/12/2018 relating to the prevention, reduction and limitation of light nuisance: product configuration to be defined according to the nature of the project.

RAGNI LIGHTING
RAGNI GROUP

KORNER

At the heart of the city, smart lighting becomes an ideal tool to centralize the functions of public spaces. The multi-functional bollard Korner continues the tradition of Ragni's adaptable and customizable products, this time bringing together new functionalities related to the transformation of urban infrastructures. Korner combines design, communication, management, security, and connectivity. Korner is a dynamic, qualitative and an adaptive lighting support, serving the human well-being in urban areas.

MODULES

To bring you even more personalized solutions, Ragni offers a dynamic multifunctional terminal for the city and its inhabitants. Elegant and design, it provides functional or architectural lighting, accompanied by various functionalities. Fixing splints allow you to position the modules according to your desires, combining city enhancement, management, security, connectivity and creativity. Have fun, modulate!

LIGHT MARKING

Custom LED colors

WI-FI

Wi-Fi access point, Wi-Fi repeater

COMMUNICATION

Connecteur Zhaga socket
Nema socket...
Zhaga socket
Nema socket connector...

LIGHT

Four-sided lighting module

Two-sided lighting module

Enhancement (directional spots)

SECURITY

Video protection system

SOUND

Loudspeaker

MANAGEMENT

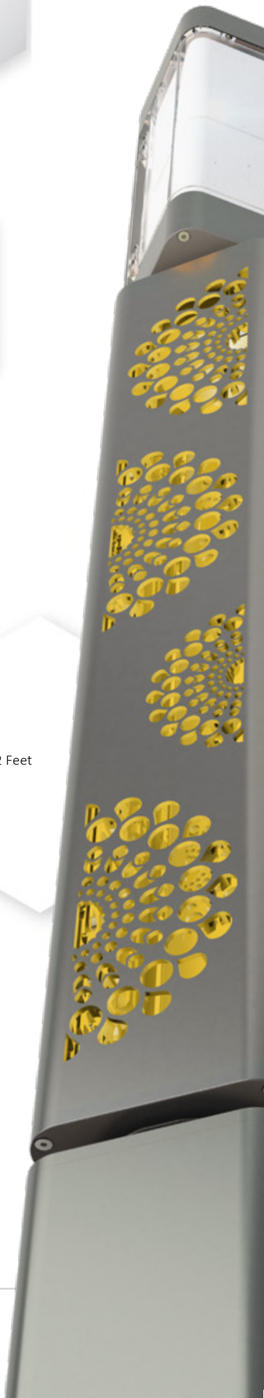
Light management & environmental monitoring solution

BIRDHOUSE

DECORATIVE

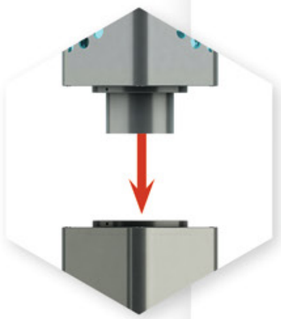
Decorative module with personalized cutting and lighting

12 Feet



SPLINT

Hinge part of the Korner concept, the splint allows, the assembly of the modules, their 360 ° rotation and their immobilization in the desired configuration.



BASE

8 Feet

5 Feet

USB charging station

Soft mobility recharging

LIGHTING

TWO-SIDED

The latest addition to the Ragni photometric laboratory, this asymmetric distribution module in aluminum foundry is designed for road or pathway lighting. Having partly inspired the name of the Korner terminal, it provides precise and functional lighting. The superposition of several modules allows a great modularity of the lighting distribution.

TECHNICAL CHARACTERISTICS:

- Module material: Aluminium foundry
- Protection material: transparent PC treated with UV protection
- IP66
- IK10

OPTICS:
- 16 LED PCB, driver and PCBs at Zhaga standards (Zhaga book 13, 15)
- 2005 to 3884 lumens

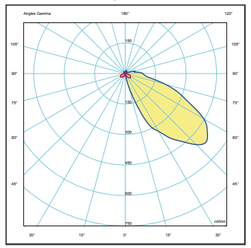
Power and Luminous Intensity - *Luminous output data*

3000K	350 mA			500 mA			700 mA		
Number of LEDs	P_t (W)	Φ (lm)	(lm/W)	P_t (W)	Φ (lm)	(lm/W)	P_t (W)	Φ (lm)	(lm/W)
16	19	2005	106	26	2746	106	36	3682	103

4000K	350 mA			500 mA			700 mA		
Number of LEDs	P_t (W)	Φ (lm)	(lm/W)	P_t (W)	Φ (lm)	(lm/W)	P_t (W)	Φ (lm)	(lm/W)
16	19	2114	112	26	2902	112	36	3884	108

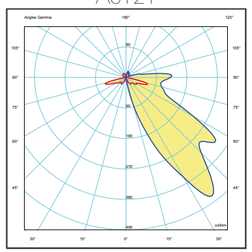
PHOTOMETRIC DISTRIBUTIONS:

ASY19



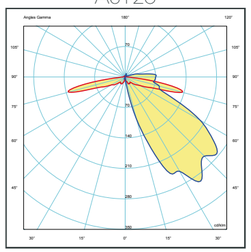
Designed for road lighting of secondary roads (streets and avenues).

ASY21

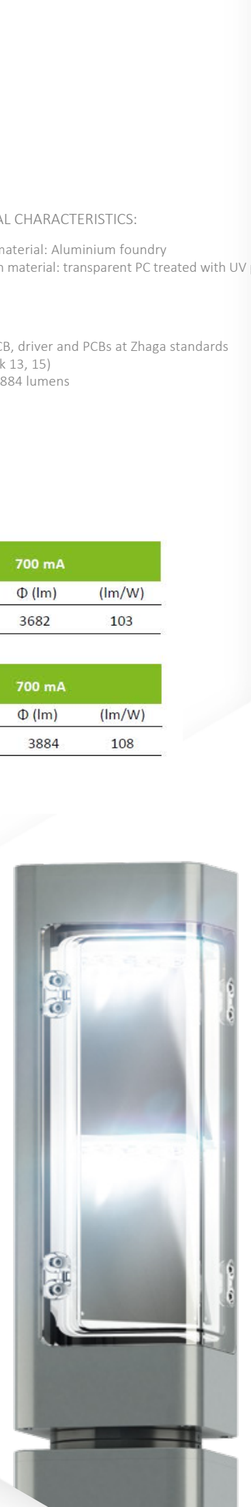


Designed for very wide area lighting (important urban roads and cross-roads).

ASY20



Designed for road lighting adapted to the pedestrian and cycle paths.



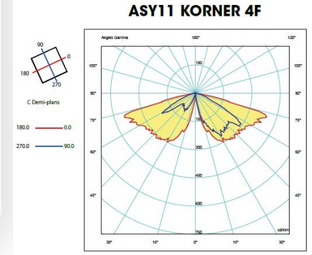
FOUR-SIDED

Versatile module allowing circular, asymmetrical or dedicated lighting for pedestrian crossings. Between a base and a head made of cast aluminum, its transparent central part on 4 sides suggests a LED module as if suspended.

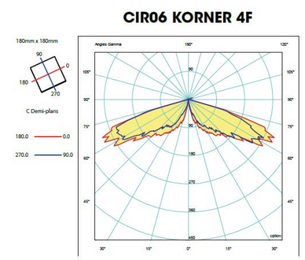
TECHNICAL CHARACTERISTICS:
- IP66
- IK09

OPTICS:
- From 8 to 24 LED PCB, driver and PCBs at Zhaga standards (Zhaga book 13, 15)
- 1131 to 6574 lumens

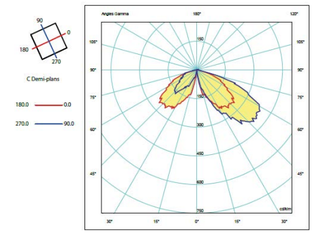
ASY11 KORNER 4F



CIR06 KORNER 4F



ASY14 KORNER 4F



Power and Luminous Intensity - *Luminous output data*

3000K	350 mA			500 mA			700 mA		
Number of LEDs	P_t (W)	Φ (lm)	(lm/W)	P_t (W)	Φ (lm)	(lm/W)	P_t (W)	Φ (lm)	(lm/W)
8	10	1131	114	14	1549	111	19	2077	110
16	19	2262	120	26	3098	120	36	4154	116
24	27	3392	126	38	4646	123	52	6230	120

4000K	350 mA			500 mA			700 mA		
Number of LEDs	P_t (W)	Φ (lm)	(lm/W)	P_t (W)	Φ (lm)	(lm/W)	P_t (W)	Φ (lm)	(lm/W)
8	10	1192	120	14	1637	117	19	2191	116
16	19	2385	126	26	3274	126	36	4382	122
24	27	3577	133	38	4910	130	52	6574	127

ENHANCEMENT

ENHANCEMENT

Real enhancement tool with fixed color lighting or RGBW with DMX dynamic control and dual orientation on 2 axes, these spotlights are intended for architectural lighting, even festive. Dress up your events with active lighting scenarios with this IP66 double module (spotlights + block) made of transparent PC treated with UV protection.

TECHNICAL CHARACTERISTICS:

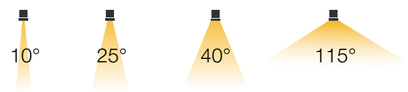
- IP68
- IK10
- 24 V, fixed color LED or RGBW with DMX control (variations of almost unlimited colors) per spotlight

OPTICS:

- 4 angles of lighting: 10°/25°/40°/115°
- 700 to 1800 lumens
- Rated lifetime of LEDs: 60,000 hours B10
- Lumen maintenance, eg L90 60,000 hrs, 90% of the luminous flux after 60,000 hrs

RGBW DMX CONTROL

LIGHTING BEAMS:

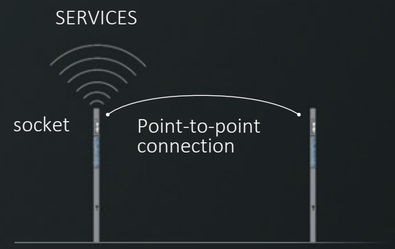


KORNER

CONNECT

COMMUNICATION

The network module is installed at the top of your Korner to add it a vocation of commu-nication tool. Equipped with a Zhaga Socket (Zhaga book 18) or NEMA Socket connector serving intelligent functions that open up the city to the requirements of the modern world, it provides Internet access and the creation of light trains thanks to the communication systems between the light points.

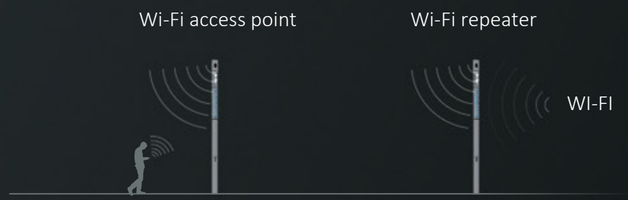


INSTALLABLE CONNECTORS:

- NEMA Socket
- Zhaga Socket (Zhagabook 18)

WI-FI

The Wi-Fi module is installed at the top of your Korner to add a vocation of communication tool. It allows access to the Internet via Wi-Fi and adds an additional access solu-tion to the existing network.



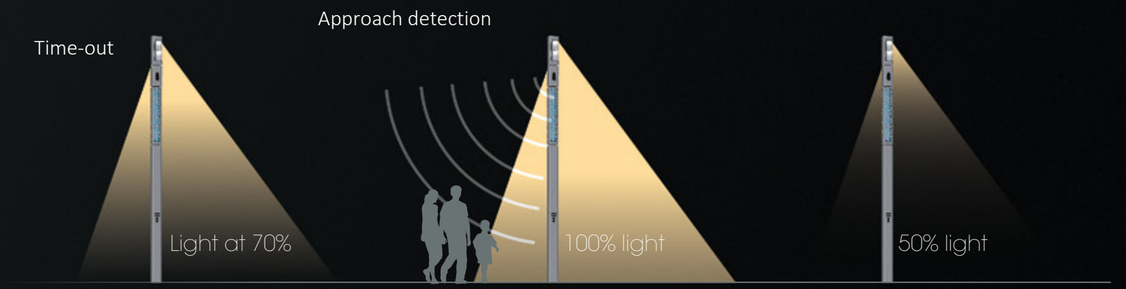
Wi-Fi ACCESS POINT:

- Client with two internal antennas (MIMO)
- IEEE 802.11 a/b/g/n 2,4 GHz und 5 GHz up to 300 MBit/s
- RJ45: for LAN, Web, http/https
- Transmission speed: 10/100 MBit/s
- Functions: Access point / client adapter / repeater

LIGHTING MANAGEMENT

The management tools have become an essential condition for the introduction of reasoned lighting, adapted in a thoughtful way to the intended uses for the site to be lit. A square, a station forecourt or a pedestrian path do not require the same lighting level as a traffic lane. Detection, dimming, time delay, constant luminous flux, trains of light, Korner reacts to the needs of the user while respecting neighboring ecosystems.

- Driver control according to DALI.
- 1 or 2 sensors at 180°.



www.ragni-lighting.com

CONNECT

USB CHARGING STATION

The USB charging station, accessible to everyone and consisting of 2 x 2 backlit ports and 2 niches for the smartphone, fits on the base and makes the Korner terminal a step on your journey, time for a break as much as in your travels.

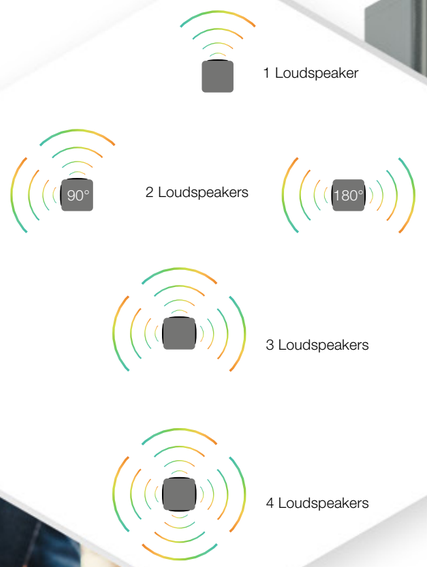
Slow down, plug in, connect!

- Input 24v DC
- Output 5V 2.1 A max DC

SOFT MOBILITY RECHARGING

The socket for soft mobility vehicles accessible to all can be integrated on the Korner terminal's feet to allow recharging of bicycles, electric scooters, etc.

- 250 V - 16 A - 2P + T
- Residual Differential Device (RDD) 30mA
- Cover with locking ring. When the cover is open, plugged or unplugged, the socket is IP55. When the cover is closed and the ring locked, the socket is IP66/67.



LOUDSPEAKER

Transform Korner into a sound system with this small receiving module recei-ving up to 4 speakers. Musical atmosphere or information relay, your column completes its qualities with an active function, allowing the user to benefit from the city's infrastructure.

- IP65
- Maximum power: 50W
- Nominal impedance: 4 Ohm
- Frequency response: 90 - 19000 Hz
- Main sound pressure level: 90 dB (1 W/1 m)

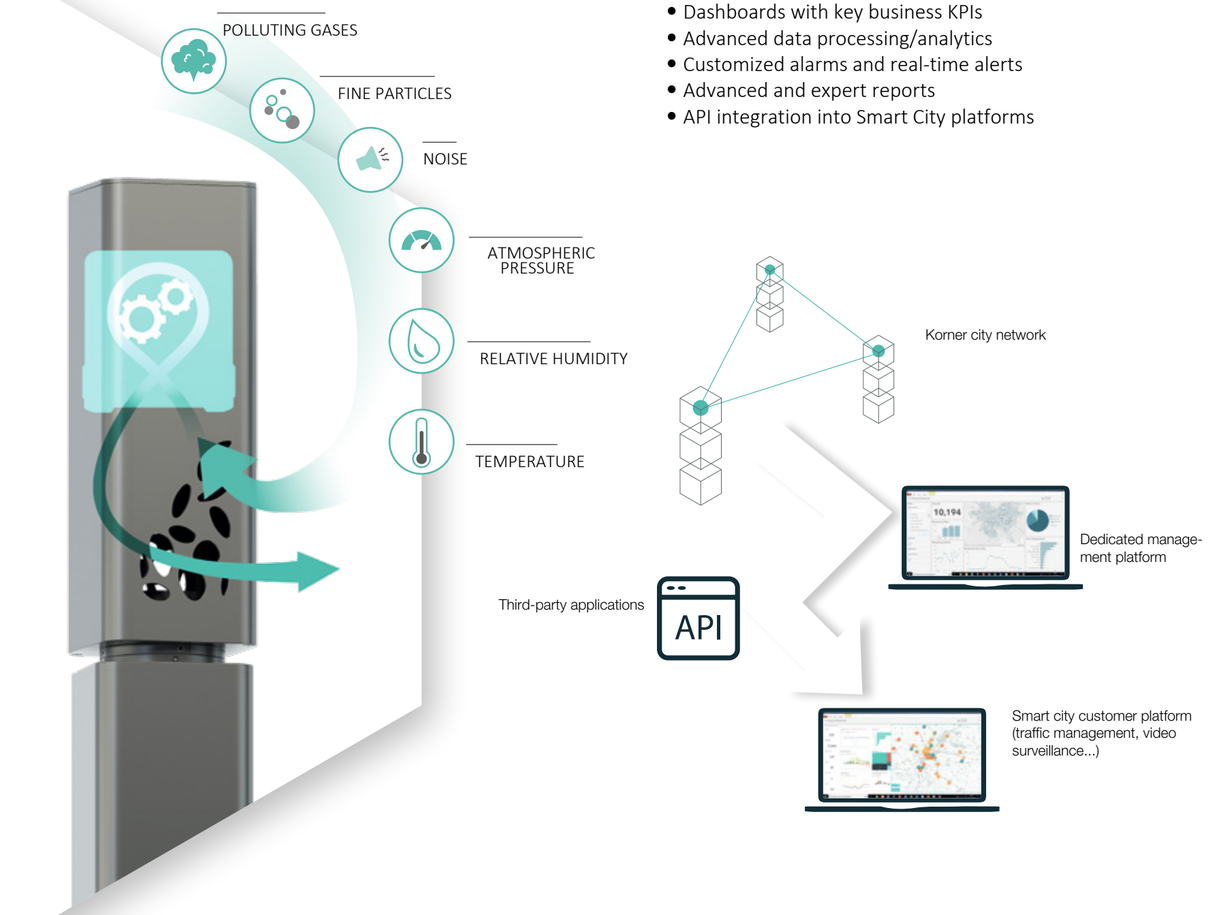
MONITORING

ENVIRONMENTAL MONITORING SOLUTION

The control of harmful gases, fine particulate matters, noise and overall pollution along with mitigation methods has become a primary concern to guarantee the quality of life and protect the environment.

The environmental module adds the function of a fixed air quality monitoring station to the Korner bollard. It collects environmental data and allows for the conversion of raw data into usable information via a software platform.

- Dashboards with key business KPIs
- Advanced data processing/analytics
- Customized alarms and real-time alerts
- Advanced and expert reports
- API integration into Smart City platforms



BIRDHOUSE MODULE

The integration of the birdhouse module allows small birds, such as chickadees or sparrows, to be accommodated. Designed in collaboration with a wildlife conservation association, the diameter of the entrance hole and the volume of the interior of the «letterbox» type birdhouse has been calculated to allow birds to pass through without providing access to predators. As nesting sites are becoming increasingly rare, the birdhouse module can be used in both urban and rural areas and helps to contribute to biodiversity.

KORNER

KORNER Configurator

Click Here

Please send PDF to your Regional Sales Representative for quoting

SECURITY

HDTV CAMERA

Add a video protection system to your configuration that receives a HDTV camera from our selection or benefit from our technical advice to define compa-tibility with your proprietary security equipment.

180° INTEGRATED CAMERA

Zoom: Zoom and remote focus
Horizontal field of view: 92° - 34°, vertical: 50° - 20°Protection index: IP66
Chock resistance: IK10

180° SURFACE MOUNTED CAMERA

Zoom: Zoom and remote focus
Horizontal field of view: 92° - 34°, vertical: 50° - 20°
Protection index: IP66
Chock resistance: IK10

360° REMOTE CAMERA

Zoom: 23x/32x optical zoom
Coverage angle: 360° continuous panning Protection index: IP66
Shock resistance: IK10
Excellent light sensitivity, Video analysis.

PERSONALIZE

CUSTOMIZED DECORATIVE CUT & BACK LIGHT

To perfect your Korner, add the final touch with the decorative module. Choose the cutout and lighting
to bring a vibrant, dynamic mood and personality to your project. With our commercial and technical
teams, define the feasibility of the pattern to maintain excellent mechanical strength and create the
custom-made scenario by synchronizing this RGBW lighting module with other lighting elements.

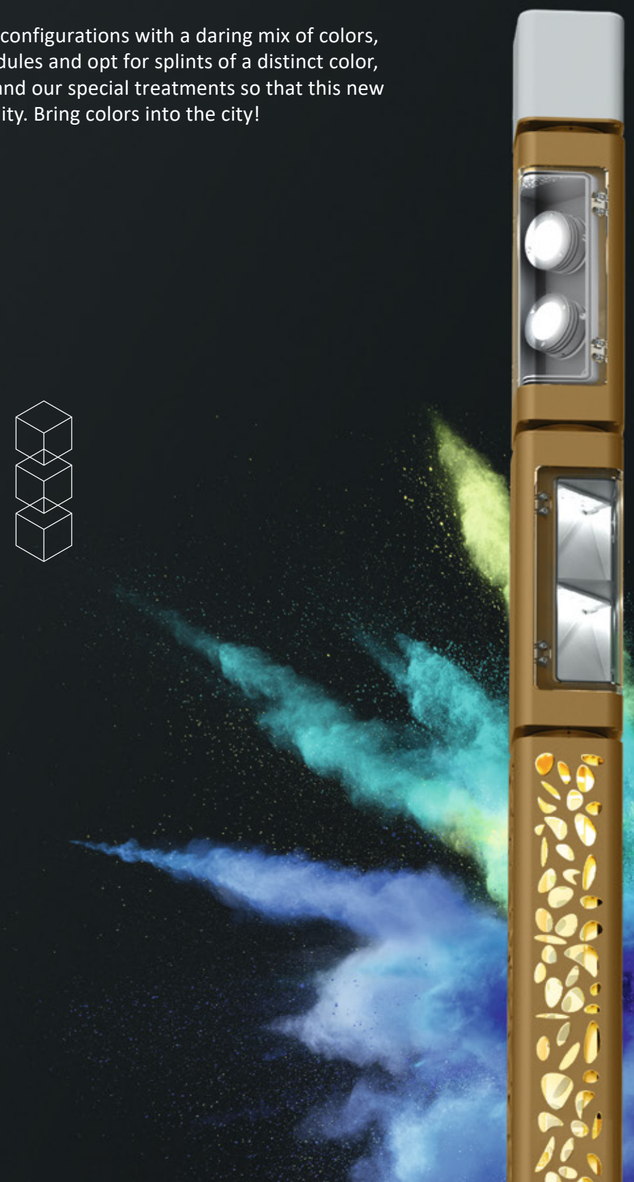
LIGHT MARKING

Visual landmark in the night - possibility of synchronized control with the other modules and almost infinite color variation thanks to DMX-controlled RGBW or fixed color LED.

PERSONALIZE

DARE THE COLOR

Dress up your Korner’s infinite configurations with a daring mix of colors, play with the layout of the modules and opt for splints of a distinct color, trust the quality of our paints and our special treatments so that this new urban pillar gains in sustainability. Bring colors into the city!



KORNER

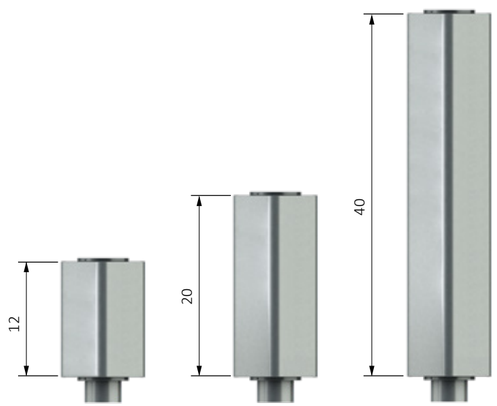
TECHNICAL CHARACTERISTICS

MATERIALS:

Body: Extruded aluminium Section: 180 x 180 mm

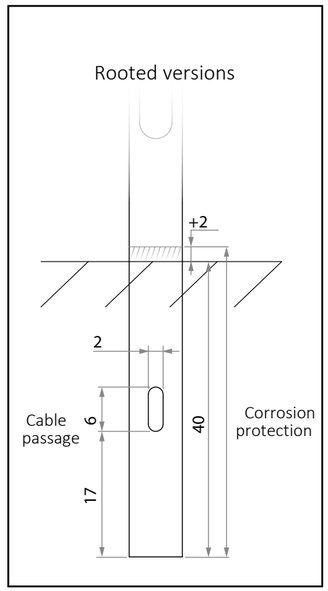
- Shock resistance: IK10

SPACERS (in):

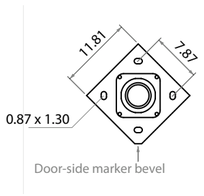
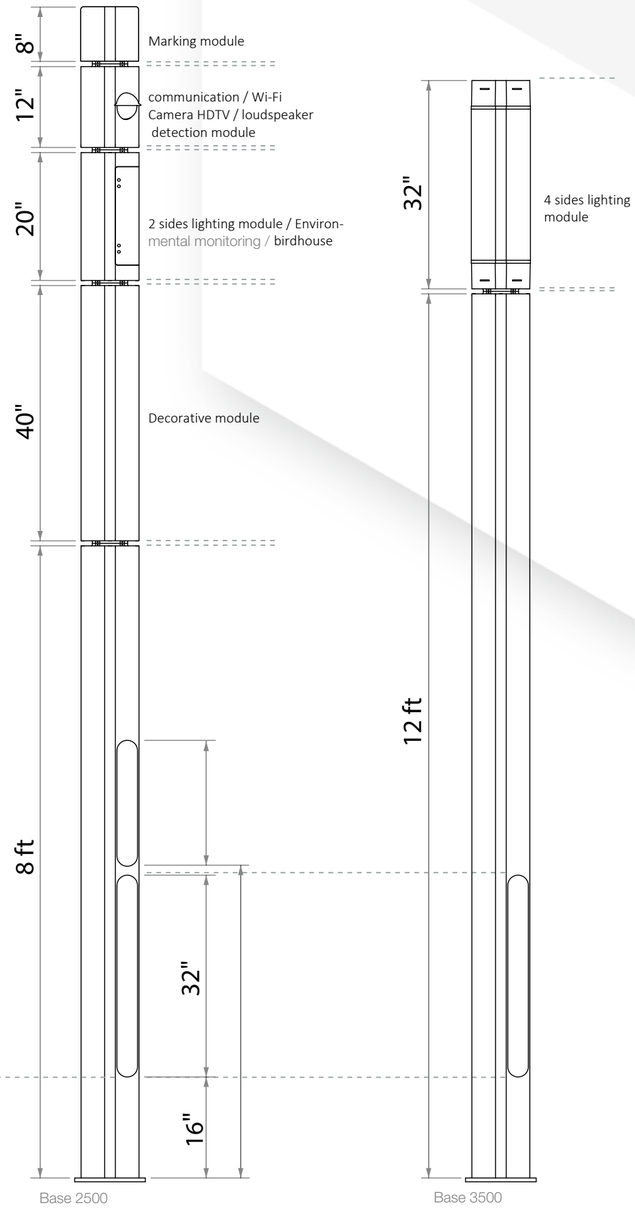


DIMENSIONS (in) :

MAXIMUM POSSIBLE HEIGHT: 20 ft



Base plate (in):



Anchor bolts: M14-Ø16x300