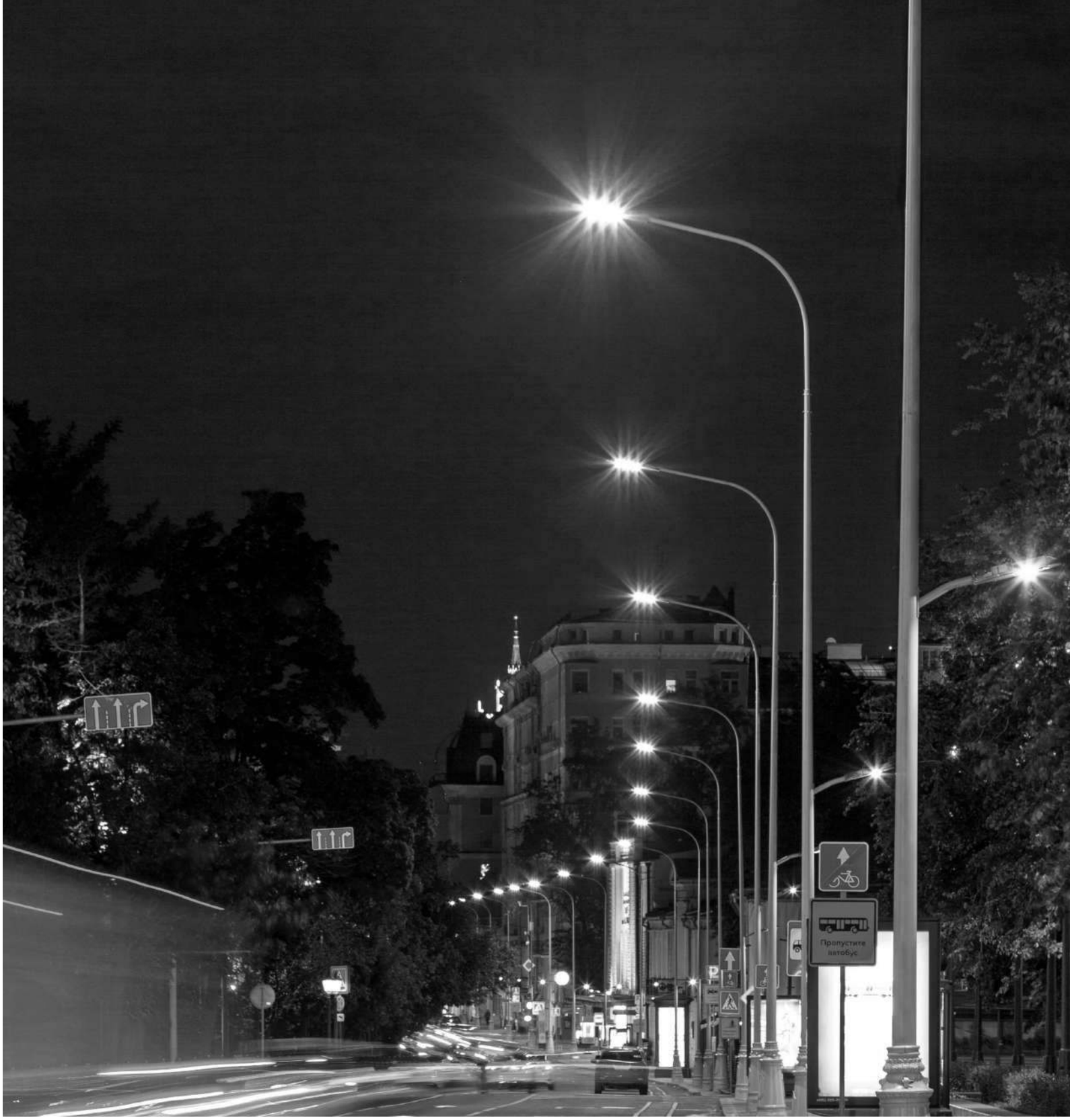


AMIRA

since 1991

DESIGN. MANUFACTURING.
INSTALLATION. LIGHTNG SYSTEMS

amira-industry.com

Contents

01
Lighting pole with integrated charging station for electric vehicles

02
Conical circular lighting pole.
Traffic sygnal pole

03
Octagonal conical lighting pole
Poles for overhead electrical network

04
Decorative carved lighting pole

05
Led flood lighting
Led road lightinn
Road lighting control

Andrey Saramud
SEO of AMIRA JSC

JSC AMIRA more over than 25 years are leading in the industry of design, engineering and installation of:

- modern lighting systems (lighting poles and masts, lamps and spotlights),
- lightning protection,
- radio masts and cellular communication poles,
- flagpoles,
- towers of overhead electric lines
- etc.

AMIRA's production capacity includes 3 plants in St-Petersburg and Leningrad region, own design office and company spacializing on design and installation (Petrosvet Ltd).

JSC AMIRA is in the register of reliable partners for business of Russia and abroad of Russian Chamber of Commerce and Industry.

JSC AMIRA possesses an international Certificate of quality management system compliance with the regulations of the ISO standard 9001:2015.

Products by JSC AMIRA are successfully operates in all regions in Russia. Even in Russian Arctic zone and earthquake-prone areas. Also, the company's products are installed in Europe, CIS countries.

The company closely cooperates with leading Russian and foreign manufacturers Osram, Philips, GE, Thorn, Siteco, Schneider Electric, ELT, VS, TECNOPALI, AL-BABTAIN, Schreder, TIME SYSTEMS, etc. and uses their products in their projects.

Amoung our clients are: Administrations of city illumination in Russia and near abroad countries, The Ministry of Defense of the Russian Federation, Gazprom, Russian Railways, Road Service, Bashneft, Lukoil, Rosneft, Novatek, GSM Megaphone, «The Moscow Railway», SHELL, Neste, etc.

In 2019, the company became the exclusive supplier of GigaTera led lights and spotlights.

In 2018 we made the hifgest flagpole in Europe. The 100-meter flagpole in Hamina.

ADVANTAGES

- Easy installation and maintenance
- Built-in electricity metering device
- The possibility of painting in any color on the table RAL
- AC charging Mode 3 electric vehicles of all types and manufacturers
- Availability of GPRS modem for the organization of communication channel EZS-server; remote access-management, data collection
- Secure access to the station connectors is possible only after successful user identification through the mobile application

LIGHTING POLE WITH INTEGRATED CHARGING STATION FOR ELECTRIC VEHICLES

DESTINATION

Complete solution for Parking lighting and alternating current charging of electric vehicles

01

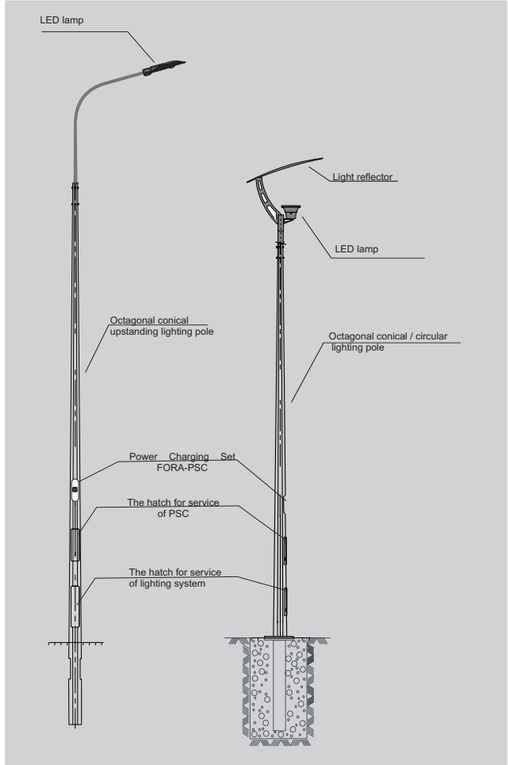
STRUCTURE

Octagonal conical pole with integrated electric charging station

The pole is made of sheet steel by bending with one longitudinal seam and protected from corrosion by hot-dip galvanizing (ISO 1461).

The integrated electric station charges electric vehicles with alternating current. Corresponds to standart IEC 61851.

CHARACTERISTIC	SETTINGS
Type	Cut-in metal box
Degree of protection of electronic components	IP 54
Operating temperature	- 30°C ~ 50°C
Humidity	90%
Power supply voltage	220 B AC
Supply frequency	50 Hz
Watt consumption	10 W
Quantity of relay exits, not less	2
The charge modes according to IEC 61851	Mode 3
Indication	Light indication of operating modes
System of identification of the user	Mobile application
Monitoring and management, information transfer	Ethernet, GSM 2G
Control system and electricity metering	By means of external metering devices with RS485 interface
Overcurrent protection	Built-in
Protection against leak on AC	Built-in
Protection against leak on a DC	Built-in, type A
Installed capacity	3,5 kW
Socket type	Schuko



MAIN CHARACTERISTICS

Heigh	4 - 6 m
Operating temperature	-30°C ~ 40°C
Installed power	3,5 kw
Wind district	up I to VII
Climatik version	I_2, II_4
Anticorrosion coating	Hot galvanizing

ADVANTAGES

- Easy installation and maintenance
- Low weight and aesthetic appearance
- Long service life
- High corrosion resistance of the coating, including for marine climate
- The possibility of making the poles by individual parametres

The program «My street» in Moscow, Russia

«My street» - is great project of development in modern history of Moscow. The main idea of the program becomes the creation of comfortable environment and making Moscow more comfortable for citizens and guests of the City.

As part of the program more than 60 streets were reconstructed and get new lighting, many octagonal poles were renovated.

CONICAL CIRCULAR LIGHTING POLE

DESTINATION

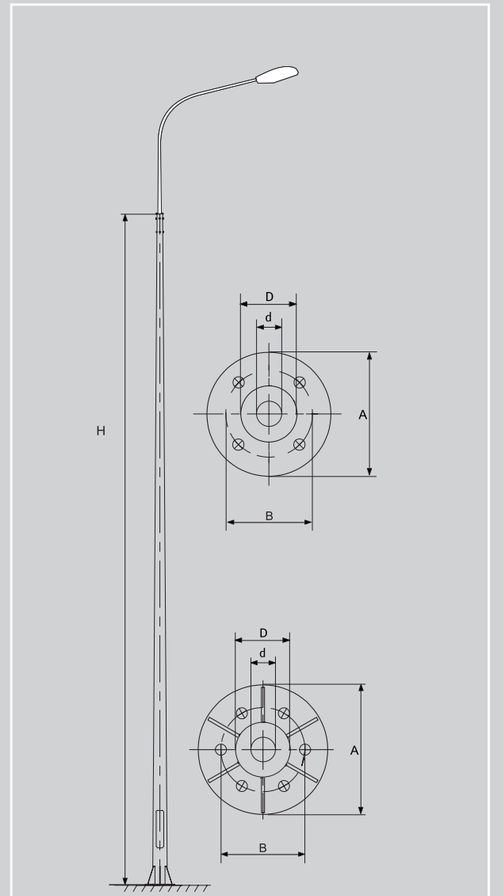
Lighting of traffic avenues, traffic junctions, bridges, squares, parks, parking areas, etc.

02

High ways and roads in:
Abkhazia
Belarus
Iraq
Jordan
Kazakhstan
Kyrgyzstan
Latvia
Russia
Turkmenistan

Among the customers:
British Petrolium
Gazprom
Neste
Novatek
Rosneft
SHELL
etc.

Lighting poles by AMIRA installed for facilities prepared for XXII Winter Olympic Games (2014), FIFA World Cup (2018), XXIX winter Universiade (2019).



STRUCTURE

Conical circular lighting pole is made of sheet steel by bending with one longitudinal seam and protected from corrosion by hot-dip galvanizing (ISO 1461).

This type of coating is not decorative, but only fuctional.
Corrosion resistance warranty is at least 25 years. All the fasteners are galvanized.

The poles can be painted in different RAL colours

Heigh	3 - 16 m
Wind district	up I to VII
Climatik version	I_2, II_4
Anticorrosion coating	Hot galvanizing

STRUCTURE

Conical circular traffic lighting pole is made of sheet steel by bending with one longitudinal seam and protected from corrosion by hot-dip galvanizing (ISO 1461).

This type of coating is not decorative, but only fuctional.
Corrosion resistance warranty is at least 25 years. All the fasteners are galvanized.

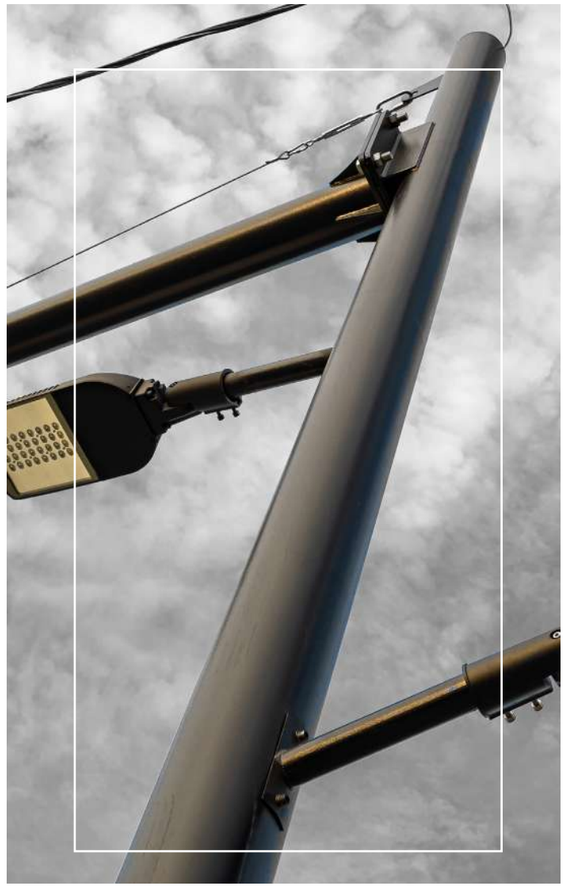
The poles can be painted in different RAL colours

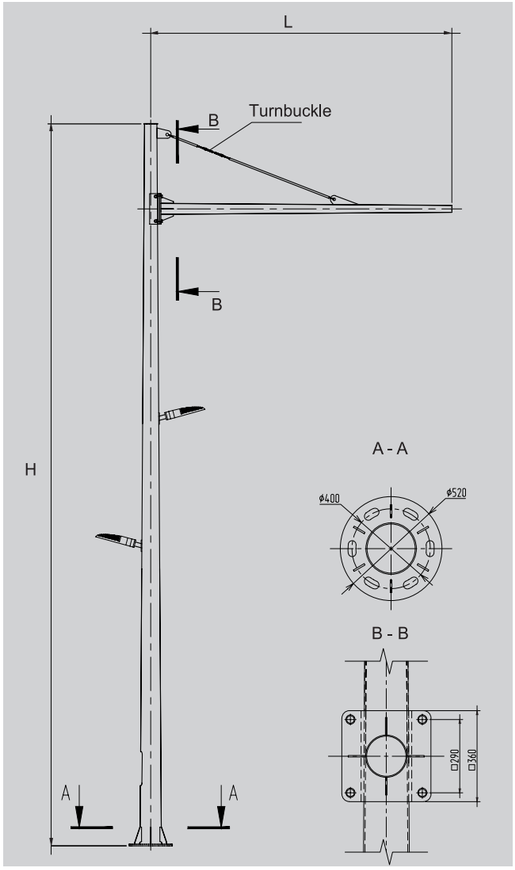
Heigh	7 - 8,5 m
Wind district	up I to VII
Climatik version	I_2, II_4
Anticorrosion coating	Hot galvanizing

CONICAL CIRCULAR TRAFFIC LIGHTING POLE

For installation of flash equipment and information traffic signs in the streets and main roads. Poles have both standard execution, rated for regular operating condition, with account of special climatic conditions and order requirements.

Can be equipped with lighting equipment





ADVANTAGES

- Easy installation and maintenance
- Low weight and aesthetic appearance
- Long service life
- High corrosion resistance of the coating, including for marine climate
- The possibility of making the poles by individual parametres

Ministry of transport of Rostov region espresses its attitude to the employees of JSC AMIRA for long-tearm and fruitful cooperation in implementation of the program of electric lighting of highways.

All installed lighting poles by AMIRA meets the technical requirements, reliable, easy in operation and have positive feedback from operation and installation organizations.

OCTAGONAL CONICAL LIGHTING POLE

DESTINATION

Lighting of traffic avenues, traffic junctions, bridges, squares, parks, parking areas, etc.

03

STRUCTURE

Conical octagonal lighting pole is made of sheet steel by bending with one longitudinal seam and protected from corrosion by hot-dip galvanizing (ISO 1461).

This type of coating is not decorative, but only fuctional.
Corrosion resistance warranty is at least 25 years. All the fasteners are galvanized.

The poles can be painted in different RAL colours

Heigh	3 - 16 m
Wind district	up I to VII
Climatik version	I_2, II_4
Anticorrosion coating	Hot galvanizing

High ways and roads in:
Abkhazia
Belarus
Iraq
Jordan
Kazakhstan
Kyrgyzstan
Latvia
Russia
Turkmenistan

Among the customers:
British Petrolium
Gazprom
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Novatek
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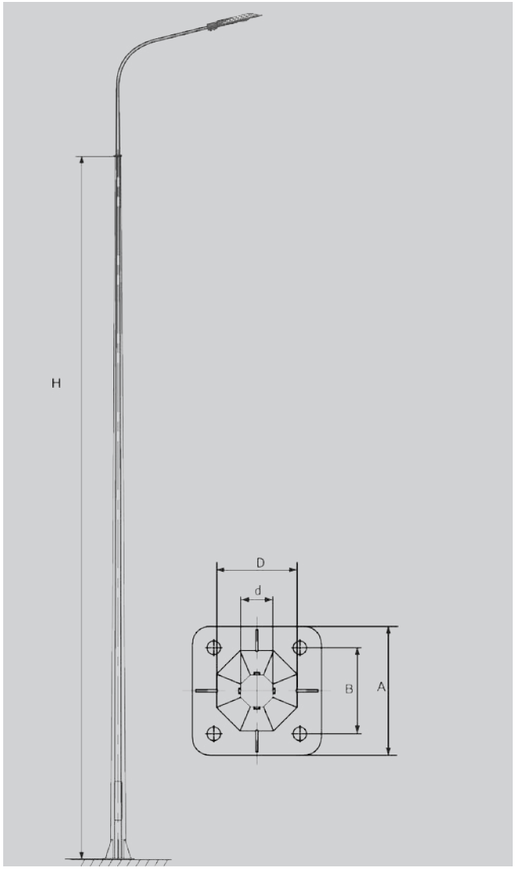
SHELL
etc.

Lighting poles by AMIRA installed for facilities prepared for XXII Winter Olympic Games (2014), FIFA World Cup (2018), XXIX winter Universiade (2019).



CONICAL CIRCULAR OR OCTAGONAL POLES FOR THE OVERHEAD ELECTRICAL NETWORK

For construcion for the city electrical transport overhead electric system, as well as for functional lighting of motor roads and junctions.

ADVANTAGES

- Easy installation and maintenance
- Low weight and aesthetic appearance
- Long service life
- High corrosion resistance of the coating, including for marine climate
- The possibility of making the poles by individual parametres

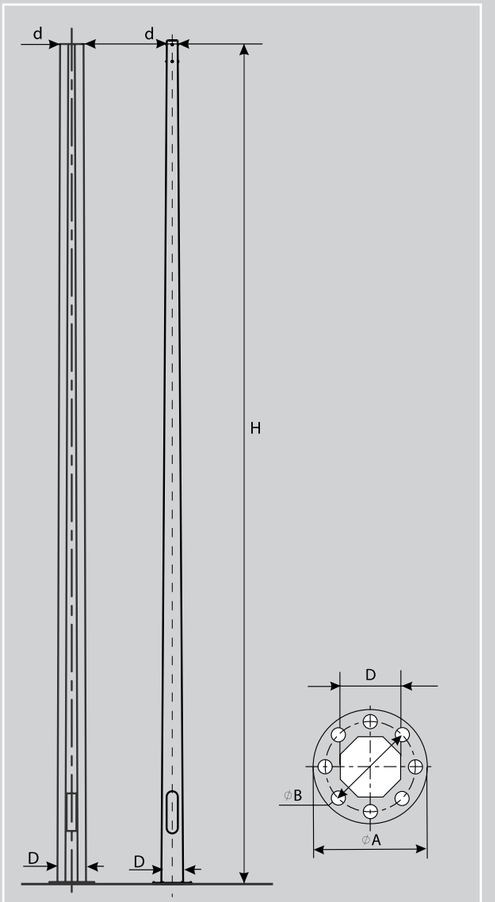
STRUCTURE

Conical octagonal and circular lighting pole is made of sheet steel by bending with one longitudinal seam and protected from corrosion by hot-dip galvanizing (ISO 1461).

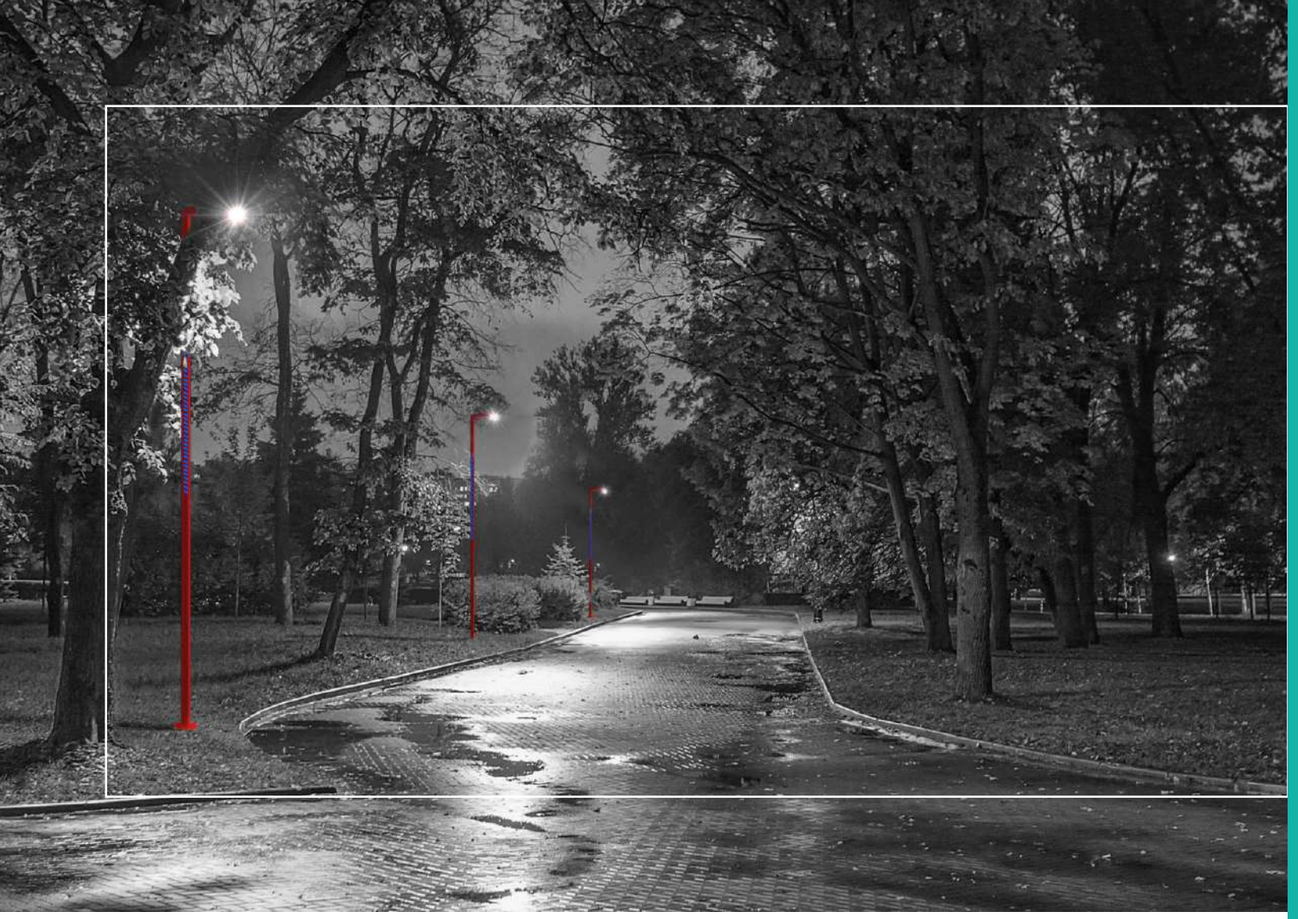
This type of coating is not decorative, but only fuctional.
Corrosion resistance warranty is at least 25 years. All the fasteners are galvanized.

The poles can be painted in different RAL colours

The first high speed tram line in Saint-Petersburg which was build in cooperation of private investors and city Government. For that project AMIRA company has designed and manufacturing special octagonal poles for the overhaed electrical network. For this project the poles were stylized as ship masts.



Heigh	9 - 13 m
Wind district	up I to VII
Climatik version	I_2, II_4
Anticorrosion coating	Hot galvanizing



ADVANTAGES

- Easy installation and maintenance
- Possibility of painting in any color according to RAL table
- Long service life
- High corrosion resistance of the coating, including for marine climate
- Possibility of manufacturing according to individual parameters
- RGB illumination inside the pole

MAIN CHARACTERISTICS

Heigh	4 - 8 m
Wind district	up I to VII
Climatic version	I_2, II_4
Anticorrosion coating	Hot galvanizing

POSSIBLE CONFIGURATION OPTIONS

5G

WI-FI

LED LIGHT

GeSS

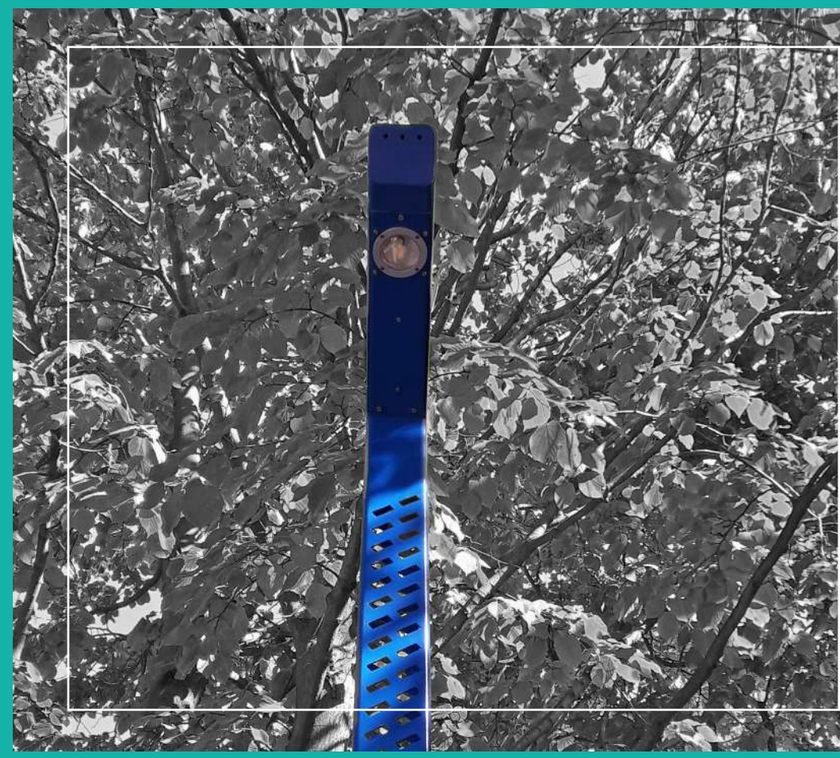
IP CAMERA

CHARGE

DECORATIVE CARVED LIGHTING POLE

DESTINATION

Lighting of squares, parks, gardens, parking areas, etc.



04

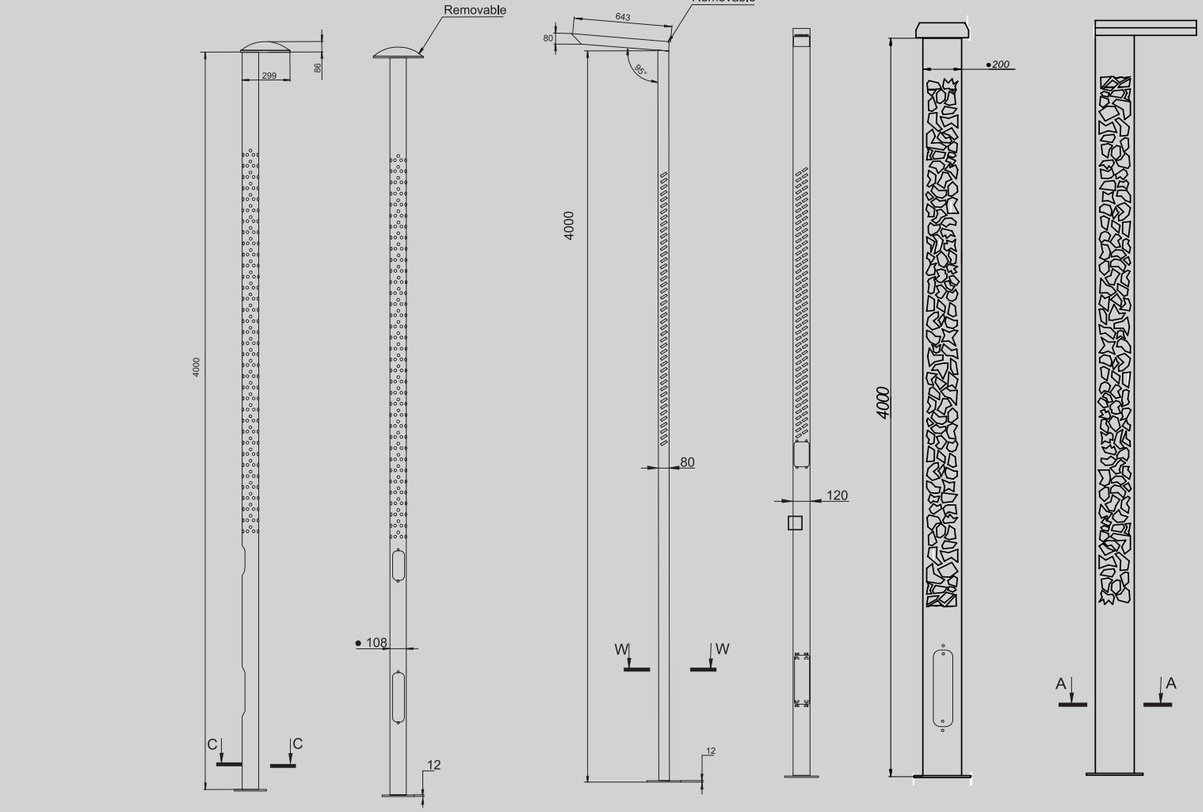
Poles are made of rolled metal of square and circular cross-section. At the bottom of the pole there is a closed compartment (hatch) for the installation of circuit breakers and terminal blocks.

In the middle part of the pole there is an additional hatch for installing decorative lighting inside the pole (led RGB lamps). In the case of use as a backlight of the trunk pole these lamps can be integrated in the line of the lighting controller, providing simultaneous highlighting the entire line.

The backlight is equipped with an individual driver. All electrical connections of the support are made using WAGO terminals.

Input of power into the pole is carried out through sealed IP 67 input boxes, which perform a safety function.

TYPES OF POLES



LED FLOOD LIGHTING
LED ROAD LIGHTIN
ROAD LIGHTING CONTROL

DESTINATION

Road lighting, sports facilities lighting, lighting of open areas, parks and gardens, embankments, parking etc.

05

LED Flood Lighting - Area Flood Lighting

SMA SUMA

Excellent light distribution even at long distance

- High luminous efficacy 105 lm/W
- Tilting structure for optimized aimIng (Upward: 90˚, Downward: 90˚)
- Wired/Wireless dimming controls
- Outstanding cooling technology and durability

IP 66 diffused light no light pollution

Application

Harbour, Airport aprons, Airplane Hangars, Container terminals, Sporting facilities, Parking lots

Specifications

＊Tolerance : ± 5%

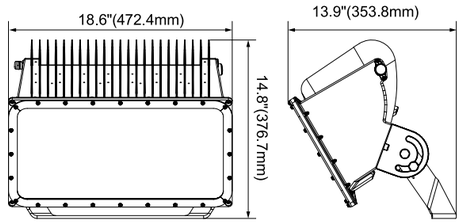
Driver Type	Model	Power	*Luminous Effiacy	*Luminous Flux	Color Temperature	CRI	Weight	Input Voltage	Operation Temperature
Built-in	SMA400	400W	105 lm/W	42,000 lm	5000K (3000K, 4000K available)	70 Ra	12.5 kg / 27.6 lb	AC200~240V AC200~277V	-50°C~55°C -58°F~131°F
Remote	SMA400						10.3 kg / 22.7 lb	DC100V (RED)	

Body	Cast Aluminum	Mounting Option	Swivel Bracket
Cover	Tempered Glass 4T (Clear)	Light Distribution	Asymmetric Wide
Finish	Powder Coating	Control System	Remote Type : Wired (RS-485) / Built-in Type : Wireless

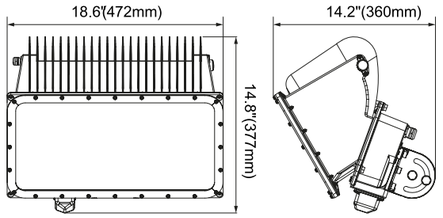
※more details of Remote Driver(RED) on p.30

Dimensions

• SMA400 (Remote Type)



• SMA400 (Built in Type)



LED Flood Lighting - Sports Flood Lighting

SFH SUFA-H

High quality sports stadium lighting

- No glare from Narrow beam reflector
- 1,500 fps flicker free super slow-motion(SSM)
- High CRI & R9 Content better visibility
- Wired dimming controls
- Various module combination available
  (1K2 : 600W x 2ea / 1K2 : 300W x 4ea/ 600W : 300W x 2ea)

Application

Sports Complex, Football Stadium, Soccer Stadium, Tennis Court, Indoor Arenas

Specifications

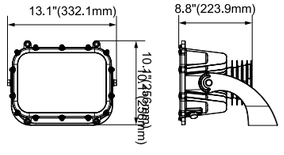
＊Tolerance : ± 5%

Model	Power	*Luminous Efficacy	*Luminous Flux	Color Temperature	CRI	Weight	Input Voltage	Operation Temperature
SFH1K2	1200W (600Wx2) (300Wx4)	95 lm/W 105 lm/W 110 lm/W	114,000 lm 126,000 lm 132,000 lm	5000K (3000K, 4000K, 5700K available)	90 Ra 80 Ra 70 Ra	26.0 kg / 57.3 lb	DC100V (RED)	-30°C~55°C -22°F~131°F
SFH600	600W	95 lm/W 105 lm/W 110 lm/W	57,000 lm 63,000 lm 66,000 lm		90 Ra 80 Ra 70 Ra	13.0 kg / 28.6 lb		

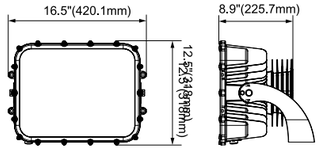
Body	Cast Aluminum	Light Distribution	13° / 20° / 30°
Cover	Tempered Glass 4.0T (Clear), Anti UV & Dust, Shatter Proof	Control System	Wired (RS-485)
Finish	Powder Coating		※more details of Remote Driver(RED) on p.30

Dimensions

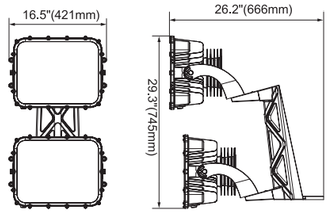
• SFH300



• SFH600



• SFH1K2



LED Flood Lighting - Sports Flood Lighting

SFM SUFA-M

Tilt and rotate for easy aiming and optimized uniformity

- Excellent cooling structure design increases heat dissipation
- High CRI & R9 for better visibility
- Wired event lighting control system
- Color Tunable (4000K ~ 5700K)

Application

Sports stadiums, Indoor Venues

Specifications

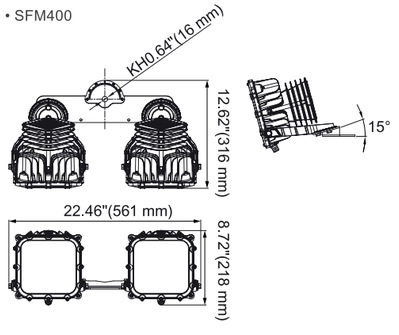
＊Tolerance : ± 5%

Model	Power	*Luminous Efficacy	*Luminous Flux	Color Temperature	CRI	Weight	Input Voltage	Operation Temperature
SFM1K2 200W x 6	1200W	100 lm/W 110 lm/W 115 lm/W	120,000 lm 132,000 lm 138,000 lm	5000K (3000K, 4000K, 5700K available)	90 Ra 80 Ra 70 Ra	21.0 kg / 46.3 lb	DC100V (RED)	-30°C~55°C -22°F~131°F
SFM400	400W	100 lm/W 110 lm/W 115 lm/W	40,000 lm 44,000 lm 46,000 lm		90 Ra 80 Ra 70 Ra	8.0 kg / 17.6 lb		
SFM400 Warm/Cool	400W	100 lm/W 95 lm/W	40,000 lm 38,000 lm	4000K, 5000K 5700K	80 Ra	8.0 kg / 17.6 lb	DC100V (Power box)	
		95 lm/W 90 lm/W	38,000 lm 36,000 lm	4000K, 5000K 5700K	90Ra			

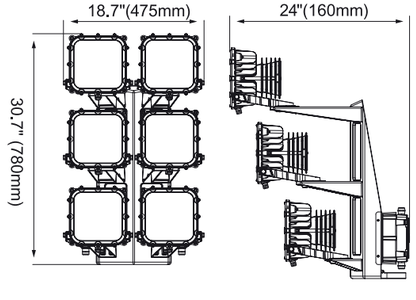
Body	Cast Aluminum	Light Distribution	15° / 30° / 45°
Cover	Tempered Glass 3.2T (Clear), Anti UV & Dust, Shatter Proof	Control System	Wired (RS-485)
Finish	Powder Coating		※more details of Remote Driver(RED) on p.30

Dimensions

• SFM400



• SFM1K2



SFA SUFA-A

Spectacular sports lighting comes with high efficacy and less glare optic technology

- No glare from Narrow beam reflector
- Flicker free 1,500 fps ultra slow-motion
- High CRI & R9 for better visibility
- Tilt and rotate for easy aiming
- Wired event lighting control system

IP 66

Application

Sports stadiums, Indoor Venues, Ports

Specifications

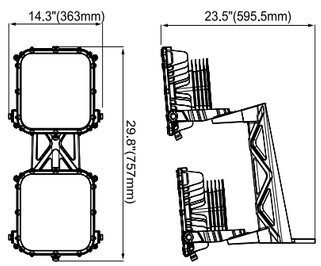
* Tolerance : ± 5%

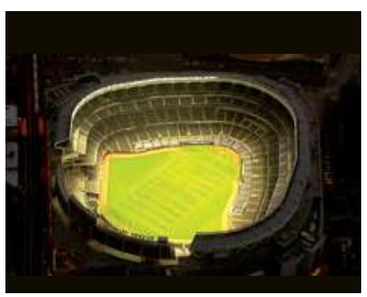
Model	Power	*Luminous Efficacy	*Luminous Flux	Color Temperature	CRI	Weight	Input Voltage	Operation Temperature
SFA1K2	1200W	100 lm/W 110 lm/W 115 lm/W	120,000 lm 132,000 lm 138,000 lm	5000K (3000K, 4000K, 5700K available)	90 Ra 80 Ra 70 Ra	18.0 kg / 39.7 lb	DC100V (RED)	-30°C~55°C -22°F~131°F
SFA1K0	1000W	100 lm/W 110 lm/W 115 lm/W	100,000 lm 110,000 lm 115,000 lm		90 Ra 80 Ra 70 Ra			
SFA800	800W	100 lm/W 110 lm/W 115 lm/W	80,000 lm 88,000 lm 92,000 lm		90 Ra 80 Ra 70 Ra	13.0 kg / 28.6 lb	DC190V (BLU)	

Body	Cast Aluminum	Light Distribution	15° / 30° / 45°
Cover	Tempered Glass 3.2T (Clear), Tempered Glass 4.0T (Clear, only 800W) Anti UV & Dust, Shatter Proof	Control System	Wired(RS-485), Wireless(only 800W) ※more details of Remote Driver(RED, BLU) on p.29-30
Finish	Powder Coating		

Dimensions

• SFA1K2 / SFA1K0



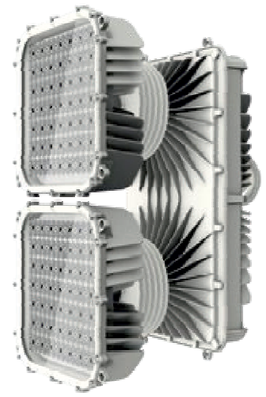


SFX SUFA-X

Spectacular sports lighting comes with high efficacy and less glare optic technology

- No glare from Narrow beam reflector
- Flicker free 1,500 fps ultra slow-motion
- High CRI & R9 for better visibility
- Wired event lighting control system

IP 66



Application

Sports stadiums, Indoor Venues, Ports

Specifications

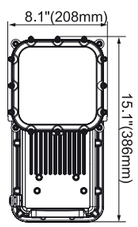
* Tolerance : ± 5%

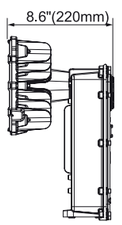
Model	Power	*Luminous Efficacy	*Luminous Flux	Color Temperature	CRI	Weight	Input Voltage	Operation Temperature
SFX1K0	1000W	110 lm/W 115 lm/W	110,000 lm 115,000 lm	5000K (3000K, 4000K, 5700K available)	80 Ra 70 Ra	32.0 kg / 70.6 lb	AC200~277V AC347~480V	-30°C~55°C -22°F~131°F
SFX600	600W	110 lm/W 115 lm/W	66,000 lm 69,000 lm		80 Ra 70 Ra	16.6 kg / 36.6 lb	AC200~277V AC220~240V AC347~480V	
SFX500	500W	110 lm/W 115 lm/W	55,000 lm 57,500 lm		80 Ra 70 Ra			
SFX400	400W	110 lm/W 115 lm/W	44,000 lm 46,000 lm		80 Ra 70 Ra			
SFX200	200W	110 lm/W 115 lm/W	22,000 lm 23,000 lm		80 Ra 70 Ra	7.5 kg / 16.5 lb	AC100~277V AC347~480V	-30°C~60°C -22°F~140°F

Body	Cast Aluminum	Mounting Option	Swivel Bracket
Cover	Tempered Glass 3.2T (Clear), Anti UV & Dust, Shatter Proof	Light Distribution	15° / 30° / 45°
Finish	Powder Coating	Control System	Wireless / Wired (RS-485)

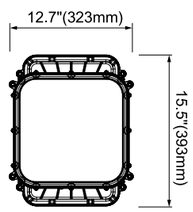
Dimensions

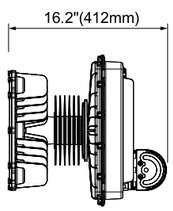
• SFX200



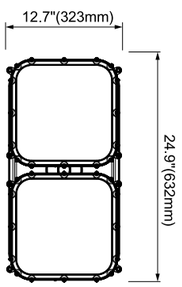


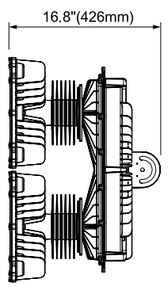
• SFX400/SFX500/SFX600





• SFX1K0





LED Flood Lighting - Area Flood Lighting

MAH MAHA

Unrivaled efficacy 150 lm/W

- Asymmetric beam distribution enabling cost efficient 1 on 1 replacement for HID flood light
- Outstanding cooling technology and durability
- Excellent light distribution and minimized glare
- Smart lighting control using wireless or Receptacle

MAH600

IP 66

Application

Sporting Facilities, Airplane Hangars, Airport Aprons, Parking Lots, Harbour, Yard

Specifications

* Tolerance : ± 5%

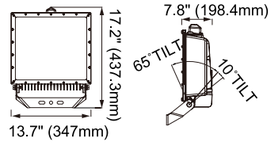
Driver Type	Model	Power	* Luminous Efficacy	* Luminous Flux	Color Temperature	CRI	Weight	Input Voltage	Operation Temperature
Built-in	MAH600	600W	150 lm/W	90,000 lm	5000K (3000K, 4000K, 5700K available)	80 Ra	20.0 kg / 44.0 lb	AC220~240 V AC200 ~277 V AC347~480 V	-22°F~131°F -30°C~55°C
	MAH500	500W	150 lm/W	75,000 lm			15.0 kg / 33.1 lb	AC220~240 V AC200 ~277 V	-22°F~122°F -30°C~50°C
	MAH400	400W	150 lm/W	60,000 lm			15.0 kg / 33.1 lb	AC100~240 V AC120~277 V AC347~480 V	-22°F~131°F -30°C~55°C
	MAH250	250W	150 lm/W	37,500 lm			7.5 kg / 16.6 lb	AC220~240 V AC200~277 V AC347~480 V	-22°F~131°F -30°C~55°C
	MAH200	200W	150 lm/W	30,000 lm			7.5 kg / 16.6 lb	AC100~240 V AC120~277 V AC347~480 V	-22°F~131°F -30°C~55°C
	MAH150	150W	145 lm/W	21,750 lm			7.5 kg / 16.6 lb	AC100~240V AC100~277V	-30°C~60°C -22°F~140°F
Remote	MAH500	500W	150 lm/W	75,000 lm			11.3 kg / 24.9 lb	DC100V (RED)	-22°F~131°F -30°C~55°C
	MAH400	400W	150 lm/W	60,000 lm			11.3 kg / 24.9 lb		

Body	Cast Aluminum	Mounting Option	Swivel Bracket / Pole Mount Bracket
Cover	Tempered Glass 4T (Clear)	Light Distribution	Asymmetric Wide
Finish	Powder Coating	Control System	Wireless / NEMA-7 Receptacle / Wired (RS-485, Remote Driver Type Only)

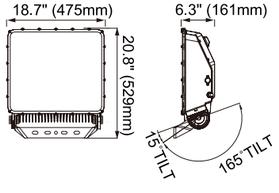
※more details of Remote Driver(RED) on p.30

Dimensions

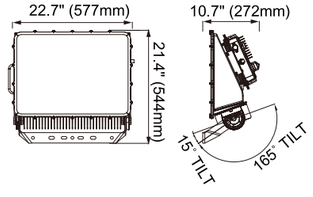
• MA150 / MAH200 / MAH250



• MAH400 / MAH500



• MAH600



Appendix - External Remote Driver

BLU Remote Driver

BLU (External Remote Driver)

- The output voltage of Remote Driver is DC48V when the distance of the luminaires is less 5.0m, DC190V when over 5.0m
- Distance between luminaire and remote driver is up to 70m

IP 66

Application Product

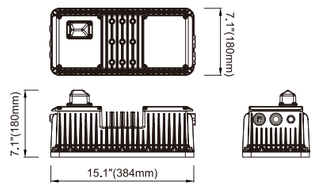
SFA800

Specifications

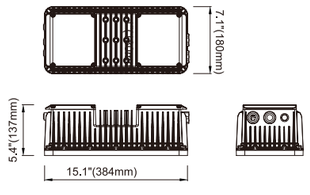
Model	Power	Input Voltage	Output Voltage	Input Current	Output Rated Current	Weight
BLU800	855W	AC200~277V	Typ. DC 190V	Max. 5.0 (@200Vac)	Max. 4.5A	10.0 kg / 22.1 lb

Dimensions

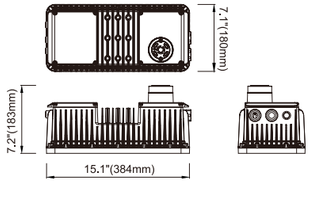
• BLU (Wireless)

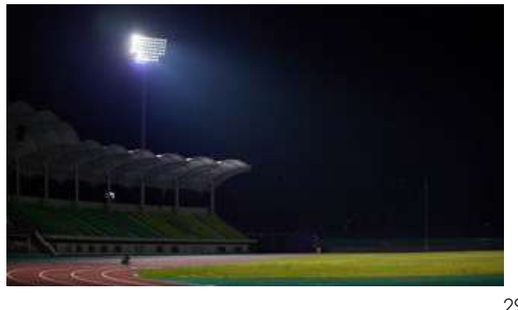


• BLU (Wired)



• BLU (NEMA)





Appendix - External Remote Driver

RED Remote Driver

IP 20

Remote Driver IP box

IP 66

RED (External Remote Driver)

- The output voltage of Remote Driver is DC48V when the distance of the luminaires is less 5.0m, DC100V when over 5.0m
- Distance between luminaire and remote driver is up to 50m

Application Products

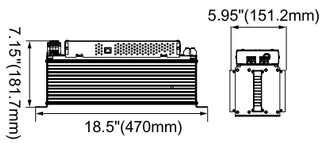
SMA400, SFH1K2, SFH600, SFM400, SFA1K2, SFA1K0, MAH500, MAH400

Specifications

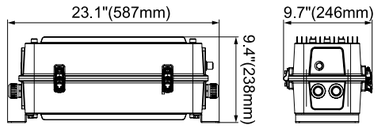
Model	Power	Input Voltage	Output Voltage	Input Current	Output Rated Current	Weight
RED1K2	1300W	AC200~277V AC200~240V AC220~240V AC347~480V	Typ. DC 100V	Max. 7.6 (@200Vac) Max. 5.0 (@347Vac)	Max. 6.5A x 2EA	13.0 kg / 28.7 lb
RED1K0	1100W			Max. 6.3 (@200Vac) Max. 4.4 (@347Vac)	Max. 5.5A x 2EA	
RED800	900W			Max. 5.0 (@200Vac) Max. 3.8 (@347Vac)	Max. 4.5A x 2EA	
RED600	650W			Max. 3.8 (@200Vac) Max. 2.5 (@347Vac)	Max. 6.5A	10.0 kg / 22.0 lb

Dimensions

• RED (Remote Driver)

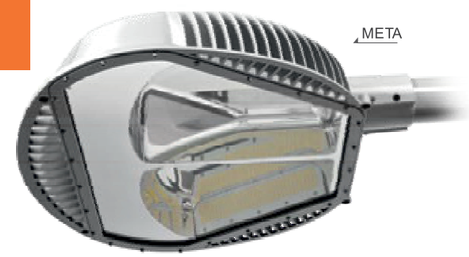


• RED IP BOX (Optional)



LED Roadway Lighting - Street Lighting

MT& MTL META & META linear tilting



IP 66

High Luminous Efficacy 140 lm/W

- Excellent Light Distribution and Uniformity
- Wireless Lighting Control
- Built-in 20kV Surge Protection Device

Application

Expressway, Highways, Roadways, Streets

Specifications

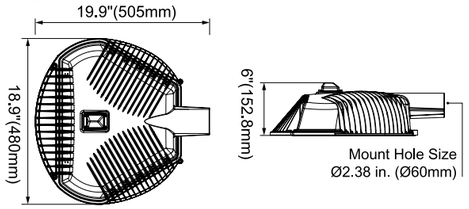
∗ Tolerance : ± 5%

Model	Power	*Luminous Efficacy	*Luminous Flux	Color Temperature	CRI	Weight	Input Voltage	Operation Temperature
MT180 **MTL180**	180W	140 lm/W	25,200 lm	5000K (3000K, 4000K, 5700K available)	80 Ra	7.9 kg / 17.4 lb 7.7 kg / 16.9 lb	AC100~277 V AC100~240 V AC347~480 V	-30°C~60°C -22°F~140°F
MT150 **MTL150**	150W		21,000 lm			7.9 kg / 17.4 lb 7.7 kg / 16.9 lb		
MT130 **MTL130**	130W		18,200 lm			7.9 kg / 17.4 lb 7.7 kg / 16.9 lb		
MT100 **MTL100**	100W		14,000 lm			7.9 kg / 17.4 lb 7.7 kg / 16.9 lb	AC100~277V	

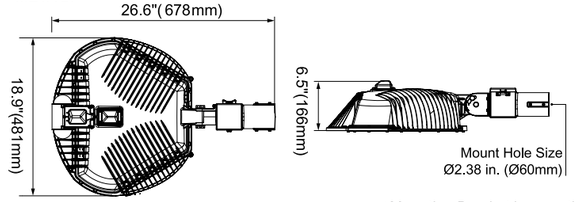
Body	Cast Aluminum	Mounting Option	Horizontal Tenon Mount
Cover	Tempered Glass 4T (Clear)	Light Distribution	Type III-S
Finish	Powder Coating	Control System	Wireless / Sensor (Daylight)

Dimensions

• META



• META LT



∗Mounting Bracket is an optional.

LED Roadway Lighting - Control and Alert

META-WHISTLE

Air-Alert

• META-Whistle LT

IP 66

Emergency Signal System

- Alert function for different event with RGBA (4 colors)
- Wireless Node
- IP66 Rated

Application

Highways, Roadways, Streets

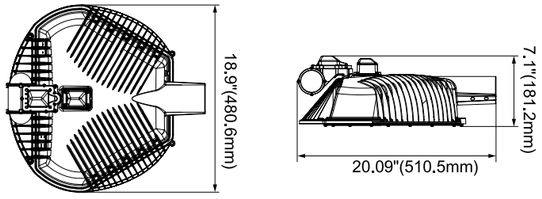
Whistle Specifications

＊Tolerance : ± 5%

Model	Standard	Frequency	RF Tx Power	RF Rx Sensitivity	Transfer Speed	Transfer Distance	Color Code	Network Configuration	Operating Temp.
Whistle	IEEE 802.15.4	2.4GHz	5dBm	-96dBm	250kbps	150M	4Color (RGB & Amber)	Mesh	-30°C~60°C -22°F~140°F

Dimensions

• META-Whistle



Whistle

Wireless Node

Whistle (RGBA 4 colors)

System configuration

LED Roadway Lighting - Street Lighting

SET&STL

SETA & SETA linear tilting

IP 66

High Efficiency 135 lm/W

- Wireless Lighting Control
- Built-in 20kV Surge Protection Device

Application

Industry complexes, Business parks, Local-ways, Alley-ways

Specifications

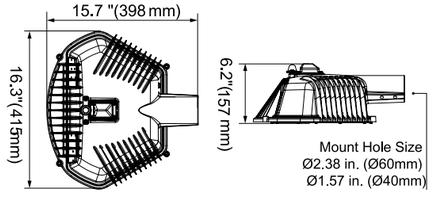
＊Tolerance : ± 5%

Model	Power	*Luminous Efficacy	*Luminous Flux	Color Temperature	CRI	Weight	Input Voltage	Operation Temperature
SET100 **STL100**	100W	135 lm/W	13,500 lm	5000K (3000K, 4000K, 5700K available)	80 Ra	4.5 kg / 9.9 lb 5.5 kg / 12.2 lb	AC100~277 V AC100~240 V	-30°C~60°C -22°F~140°F
SET080 **STL080**	80W	135 lm/W	10,800 lm			4.5 kg / 9.9 lb 5.5 kg / 12.2 lb		
SET060 **STL060**	60W	130 lm/W	7,800 lm			4.5 kg / 9.9 lb 5.5 kg / 12.2 lb		

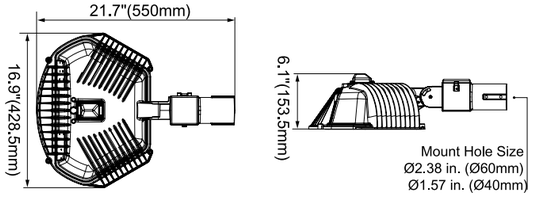
Body	Cast Aluminum	Mounting Option	Horizontal Tenon Mount
Cover	Tempered Glass 4T (Clear)	Light Distribution	Type II-S
Finish	Powder Coating	Control System	Wireless / Sensor (Daylight)

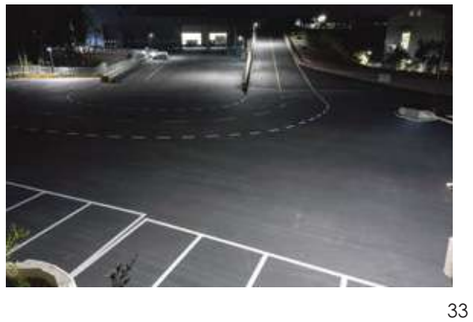
Dimensions

• SETA



• SETA LT





LED Roadway Lighting -Control and Alert

SETA-WHISTLE

Air-Alert

IP 66

Emergency Signal System

- Alert function for different event with RGBA (4 colors)
- Wireless Node
- IP66 Rated

Application

Highways, Roadways, Streets

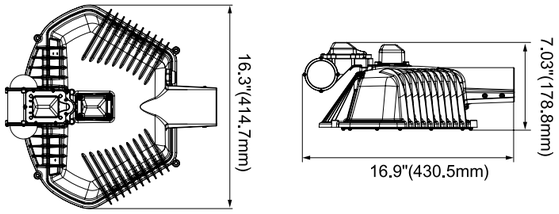
Whistle Specifications

* Tolerance : ± 5%

Model	Standard	Frequency	RF Tx Power	RF Rx Sensitivity	Transfer Speed	Transfer Distance	Color Code	Network Configuration	Operating Temp.
Whistle	IEEE 802.15.4	2.4GHz	5dBm	-96dBm	250kbps	150M	4Color (RGB & Amber)	Mesh	-30°C~60°C -22°F~140°F

Dimensions

• SETA-Whistle



Whistle

System configuration

IT Converged LED Lighting - Security

SPES-ST SPES-SETA

IP 66

IP camera based convergence product that meets street light distribution (Type II-S) requirements

- High efficiency LED lighting that comes equipped with intelligent lighting controls
- Full-HD PTZ IP Camera (Optical 10x Mega pixel Zoom Lens)
- Built in micro SD card automatically saves video footage
- Fuction that prevent a video trembling due to vibration (DIS : Digital Image Stabilization)
- Onvif compliant

Application

Walkways, Driveways, Industrial facilities, School zones, Cultural asset facilities, Hospitals, Shopping malls, Parking lots, Estates, Potential crime zones

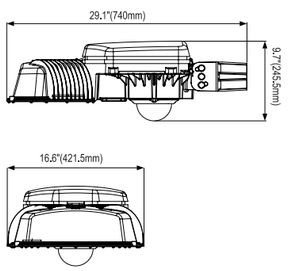
Specifications

Tolerance : ± 5%

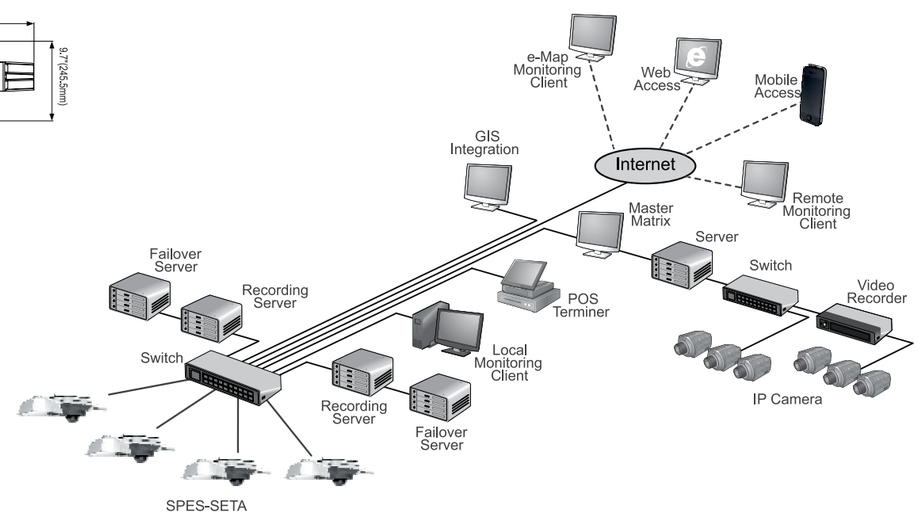
Model	Power	*Luminous Efficacy	*Luminous Flux	Color Temperature	CRI	Weight	Input Voltage	Operation Temperature
SST	110W (LED: 100W, CAM:10W)	135 lm/W	13,500 lm	5000K (4000K available)	80 Ra	12kg 26.5 lb	AC100~277V	-30°C~60°C -22°F~140°F

Body	Cast Aluminum	Mounting Option	Horizontal Tenon Mount	Control System	Wireless / Sensor (Motion, Daylight)
Cover	Tempered Glass 4T (Clear)	Mount Hole	Ø2.4 in. (Ø60.5mm)	IP Camera	2M pixel IP Camera
Finish	Powder Coating	Light Distribution	Type II-S		10X Zoom PTZ (f=5.1 ~ 51mm)
		Option	Whistle		onvif

Dimensions



City Surveillance System Diagram (Central Control System)



Control System GeSS™

Gateway

Roadway Lighting Control

The Gateway allows communication with command between the GeSS system and node.

- This action is carried by using 2G/3G wireless connection and Ethernet.
- Through wireless connection, the lighting fixture and node can be monitored and controlled.

Application

Highway, Roadway, Street

Specifications

* Tolerance : ± 5%

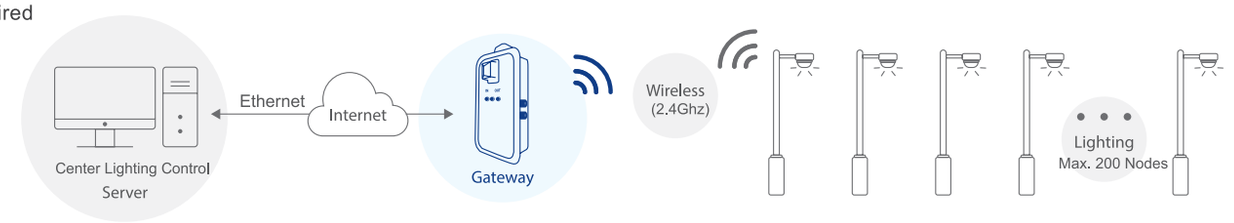
Model	Power Consumption	Communication Method	Dimension	Weight	Input Voltage	Operation Temperature
Gateway	Max. 2.5W	Ethernet, WCDMA (Web/GUI) Wireless (Lighting)	191 x 388 x 158 mm 7.5 x 15.3 x 6.2 inch	3.2kg / 7.1 lb	AC 100~277V AC 347~480V	-20°C~60°C -4°F~140°F

System configuration

• Wireless

*For local control only due to the distance limitation

• Wired



*** Notes** | Up to monodirectional *LOS@200M is valid between the gateway and the first node.
One gateway can be used to control up to 200 roadway lightings.

CERTIFICATE

Products by AMIRA have certificate of constancy of performance 1922-CPR-0683

Dedal Attestation & Certification

Notified body No. 1922
Bulgaria, 8230 Nesebar
Mladost #50

CERTIFICATE

of constancy of performance

1922 - CPR - 0683

In compliance with Regulation (EU) No 305/2011 of the European Parliament and of the council of 9 March 2011 (the Construction Products Regulation or CPR), this certificate applies to the construction products

Steel Lighting Columns, material: S235 and S355
Resistance to horizontal load: C - v=30 m/s
Wind area: v≤30 m/s
Terrain category: II
Performance under impact (passive safety): Class 0

(The types of lightning columns and the relevant resistance to horizontal loads parameters are described in Annex I, that is an integral part of this certificate.)

placed on the market under the name or trade mark of

AMIRA JSC
Russia, 195027, Saint Petersburg, 51 Magnitogorska st., liter D

and produced in the manufacturing plant

MEGAPOLIS
Russia, 187015, Leningradskaya region, setti. Krasniy Bor, 12 Promyshlennaya st.

This certificate attests that all provisions concerning the assessment and verification of constancy of performance described in Annex ZA of the standard

EN 40-5:2002

under system 1 for the performance set out in this certificate are applied and that the factory production control conducted by the manufacturer is assessed to ensure the constancy of performance of the construction product.

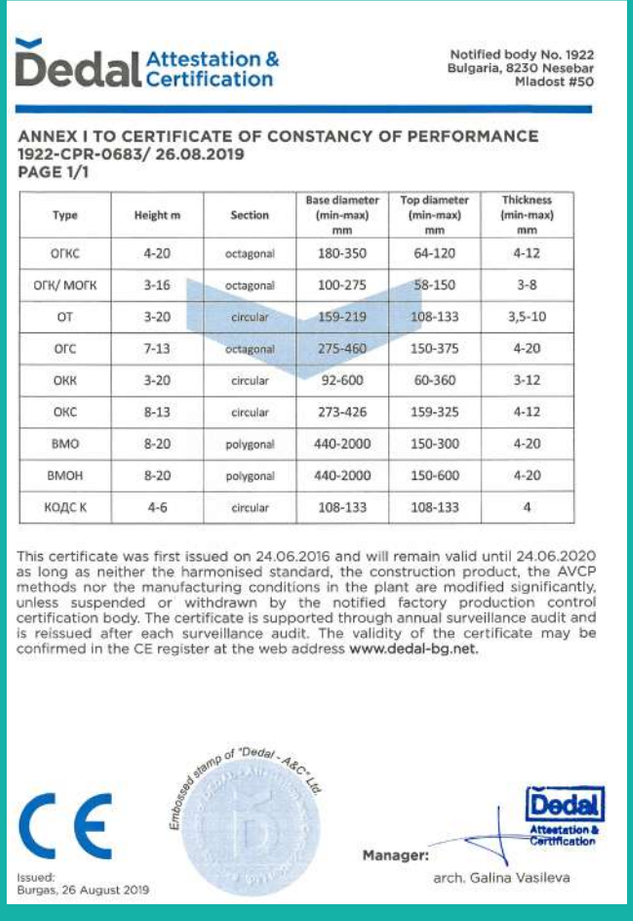
This certificate was first issued on 24.06.2016 and will remain valid until 24.06.2020 as long as neither the harmonised standard, the construction product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified factory production control certification body. The certificate is supported through annual surveillance audit and is reissued after each surveillance audit. The validity of the certificate may be confirmed in the CE register at the web address **www.dedal-bg.net.**

CE

Embossed stamp of "Dedal - A&C" Ltd

Issued:
Burgas, 26 August 2019

Manager:
arch. Galina Vasileva



Dedal Attestation & Certification

Notified body No. 1922
Bulgaria, 8230 Nesebar
Mladost #50

ANNEX I TO CERTIFICATE OF CONSTANCY OF PERFORMANCE 1922-CPR-0683/ 26.08.2019
PAGE 1/1

Type	Height m	Section	Base diameter (min-max) mm	Top diameter (min-max) mm	Thickness (min-max) mm
ОГКС	4-20	octagonal	180-350	64-120	4-12
ОГК/ МОГК	3-16	octagonal	100-275	58-150	3-8
ОТ	3-20	circular	159-219	108-133	3,5-10
ОГС	7-13	octagonal	275-460	150-375	4-20
ОКК	3-20	circular	92-600	60-360	3-12
ОКС	8-13	circular	273-426	159-325	4-12
ВМО	8-20	polygonal	440-2000	150-300	4-20
ВМОН	8-20	polygonal	440-2000	150-600	4-20
КОДС К	4-6	circular	108-133	108-133	4

This certificate was first issued on 24.06.2016 and will remain valid until 24.06.2020 as long as neither the harmonised standard, the construction product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified factory production control certification body. The certificate is supported through annual surveillance audit and is reissued after each surveillance audit. The validity of the certificate may be confirmed in the CE register at the web address **www.dedal-bg.net.**

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Manager:
arch. Galina Vasileva

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amira-industry.com | **www.amira.ru**