

22M SATURN LED (12-LED)

Construction:

The unit consist of a body. A shade is mounted to the luminary body with a frame.
 A disk separating electrical compartment from lighting compartment, is attached to a luminary body.
 A LED light sources radiator is settled to the disk. LED modules are mounted to the radiator with a set of lenses, by screws. The modules are powered with a power supply. The luminary cover is mounted to the luminary body with a hinge and closed with a screw so no additional tools are necessary. The luminary is sealed with a gasket. As an option, we equip the luminary with a ZHAGA socket.

Mounting instructions:

- *) - Mount the shade to the body with a frame. Tighten mounting bolts.
- *) - Screw the LED light sources with a lenses to the radiator, mount a disk to the body.
- *) - Connect the electrical cables according to the scheme.
- Close the cover, screw the bolt using hand.
- Luminary is mounted to the lantern depending on the pole construction - either hanging on M20 thread or mounted on the top of the pole on $\varnothing 45\text{-}\varnothing 90$ diameter.

If any lantern elements are supplied factory-mounted, the mounting stages marked with *) should be omitted (as this has already been done by the manufacturer).

Technical data:

- Power: **~220-240V / 50-60Hz**
- Ambient/work temperature : **-40°C do +40°C**
- Protective class: **I or II**
- Ingress protection code: **IP65**
- Mechanical impact protection code: **IK09**
- Surge protection: **to 10kV**
- Life time: **L90, B10 >100 000h** (for G5)
- Controls method: **1-10V, DALI, Ampdim, Dynadimmer**,
as an option - **socket ZHAGA with SR driver (D4i)**,

Application:

Lighting: roadways, pavements, bicycle paths, markets, parks, parkings,



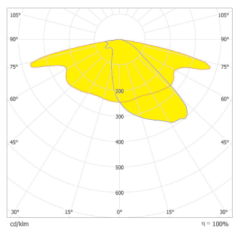
Product equipped with a replaceable light source LED - options:

Symbol	Light source	G5 - Luminous flux [lm]			HE - Luminous flux [lm]				UHE - Luminous flux [lm]		Pn [W]	If [mA]	Weight [kg]
		2700K (827)	3000K (830)	4000K (840)	2200K (722)	2700K (727)	3000K (730)	4000K (740)	3000K (730)	4000K (740)			
22 L-13W	12-LED	1438	1516	1602	1653	1676	1844	1895	2034	2064	13	300	3,0
22 L-17W	12-LED	1870	1970	2083	2181	2202	2425	2492	2681	2721	17	400	3,0
22 L-21W	12-LED	2284	2407	2545	2698	2713	2989	3072	3316	3366	21	500	3,0
22 L-24W	12-LED	2683	2828	2990	3205	3209	3537	3636	3938	3998	24	600	3,0
22 L-28W	12-LED	3069	3235	3421	3704	3689	4069	4184	4550	4618	28	700	3,0
22 L-32W	12-LED	3444	3630	3839	4195	4154	4584	4715	5150	5228	61	800	3,0

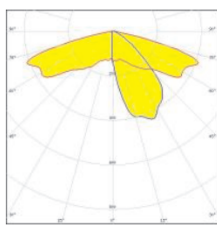
Luminous flux values shall be declared for ambient temperature 25°C. The class of modules used assumes 5% tolerance of the declared luminous flux value. The weight of the unit may slightly differ for individual production batches.

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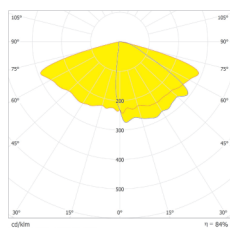
Available lenses - Photometry (polar plot) :



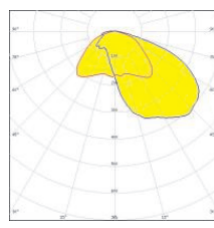
1. ME



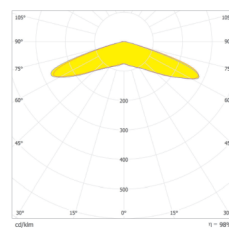
2. T2



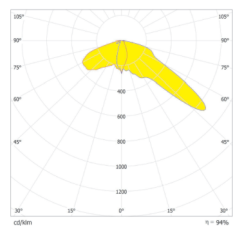
3. T3



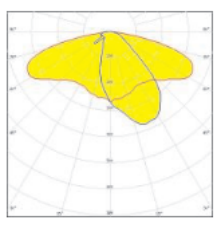
4. T4



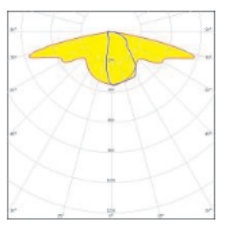
5. VSM



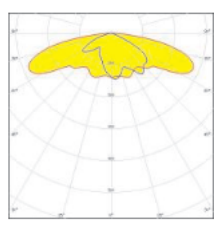
6. PX



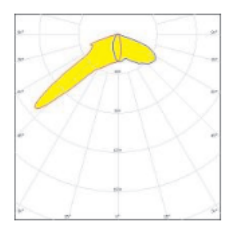
7. DWC



8. DWC-PC

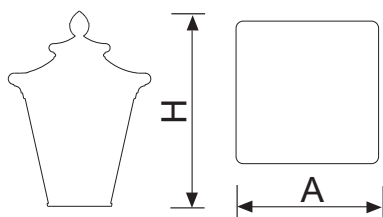


9. XW



10. PXL

Versions/assembling:

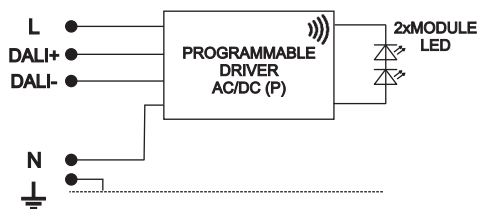


Wind aera
 $A = 0,10m^2$

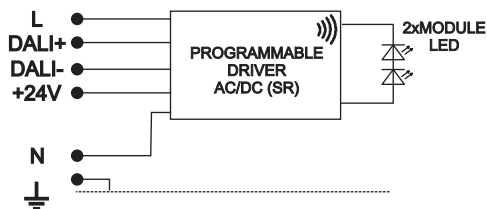
H/A
 420/320



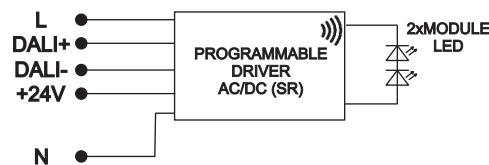
Electrical diagrams:



1. Light source LED (I Class Protection)
 (basic version - programmable driver)



2. Light source LED (I Class Protection)
 (version as an option - Sensor Ready driver)



3. Light source LED (II Class Protection)
 (version as an option - Sensor Ready driver)

-programmable driver (P) enables programming of a five-steps power reduction, surge protection to 10kV

-programmable driver (SR) enables to be powered wireless communication devices, via a ZHAGA socket, surge protection to 10kV

-detailed specifications of the power supplies include catalogue cards of their manufacturers, which we provide on request