

SYRA LUMINAIRE

- **GENERAL DESCRIPTION**

The luminaire shall be weather resistant and enclosure (protection degree IP66 for the optical assembly and IP44 for the control gear), with an independent reflector from the housing. It shall operate with high-pressure sodium, metal halide and mercury vapour lamps up to 150watts (SYRA-150) and 250watts (SYRA-250). The luminaire shall incorporate the control gear in a compartment specially designed for this purpose, and the optical assembly shall remain closed when operating the ballast. The luminaire shall have decorative shape and suitable for pendant mounting.

Ballast, housing, luminaire and optical assembly shall all belong to the same manufacturer.



- **MECHANICAL CONSTRUCTION**

Housing built in one spun piece, from a thick aluminium disk. In its top part shall be incorporated one piece in die-cast aluminium, which serves as a support to the ballast tray and to the fitting system. In its bottom part, the luminaire shall provide one door with three stainless steel screws and hinged. The luminaire opening shall be tool-less. This door shall serve as support to the optical assembly. Housing and door shall have polyester powder paint finish, electrostatically sprayed and oven cured at 180°C.

The ballast shall be mounted on a metallic tray, which is assembled to the die-cast aluminium top part. This tray shall be easily removable, with electrical disconnect of the lamp through multi-polar connector. The ballast access shall be tool-less, by opening the door, loosening its fixing screws.

The lampholder shall be of reinforced porcelain and shall be mounted on a mechanism that allows the choice of multiple photometric distributions, perfectly defined, depending on the lamp used and the selected photometric distribution

The lamp access shall be tool-less, by releasing two latches that hold the support of the lampholder in its position.

The luminaire shall be suitable for pendant mounting to 1" threaded hub.

The assembly system shall comprise the die-cast aluminium previously described, 1" threaded hub, three fixing nuts, all made of stainless steel, and one hermeticity gasket.

- **OPTICAL ASSEMBLY**

The optical assembly shall be a hermetic block comprising a reflector, a diffuser, a neck and a lampholder compartment made of plastic and with high-temperature resistant.

It shall be easily removable by means of loosening three cramps that are fixed to the luminaire door. .

The diffuser can adopt one of the following configurations:

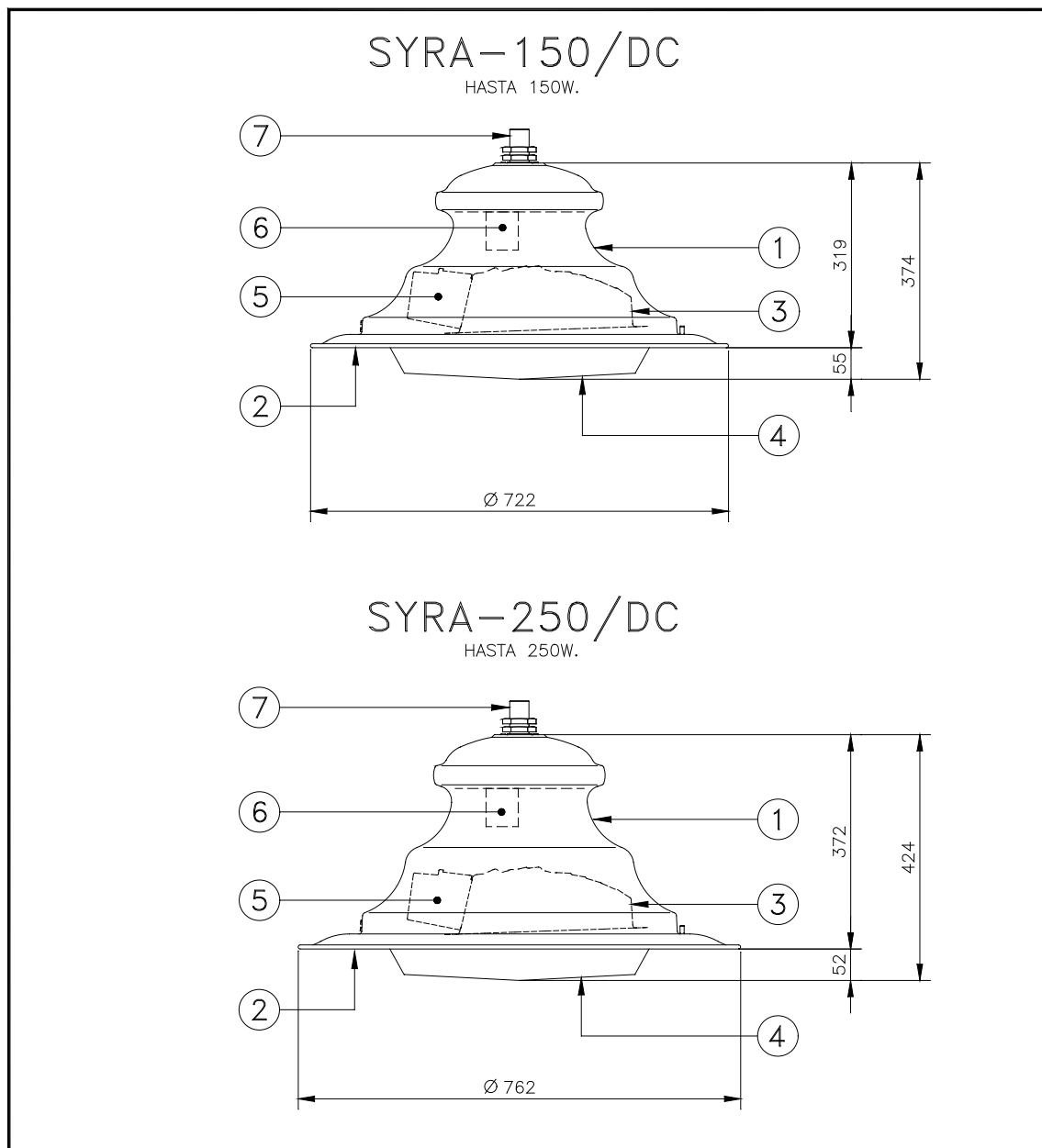
- SC: Transparent polycarbonate spherical diffuser.
- SM: Stippled polycarbonate spherical diffuser.
- EC: Transparent polycarbonate elliptical diffuser.
- EM: Stippled polycarbonate elliptical diffuser..

- DC: Clear drop lens diffuser.
- VT: Tempered flat glass lens, thermal and mechanical stress resistant.
- VC: Tempered curved glass lens, thermal and mechanical stress resistant.

The faceted reflector shall be of high-purity aluminium. The reflector finish shall be achieved through anodizing, sealing brightening and processes. With this process the reflectance surface shall be anodized and sealed with a layer of 3 μ . minimum thickness. The plastic neck shall be firmly joined to the reflector.

On the lampholder-support edge shall be mounted the spongy silicone gasket to ensure the hermeticity with the reflector neck. Its mounting shall be safe and free from detachments when doing maintenance and lam replacement operations.

The photometric distribution shall be street-type asymmetric, and the light emission towards the upper hemisphere shall be minimum. In some lamp positions, and depending on the selected diffuser, this light emission shall be zero.



7	SISTEMA FIJACION CENITAL 1" ROSCA GAS																													
6	EQUIPO ELECTRICO																													
5	ALOJAMIENTO DEL PORTALAMPARAS	PLASTICO DE ALTA RESISTENCIA A LA TEMPERATURA																												
4	CIERRE	CUBETA POLICARBONATO TRANSPARENTE																												
3	REFLECTOR	ALUMINIO ANODIZADO																												
2	PUERTA	ALUMINIO ENTALLADO DE UNA SOLA PIEZA																												
1	CARCASA	ALUMINIO ENTALLADO DE UNA SOLA PIEZA																												
POSICION	DESCRIPCION	MATERIAL																												
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