



## Technical data

January 2011

### Astra ASM 1x20 Watts



#### **Description:**

High Output Surface Led Luminaires , this low consumption fitting is designed for intensive use in public and private spaces.

#### **Housing:**

Manufactured in enameled sheet steel , cold formed , painted with epoxy polyester powder coating electro statically applied at 180 degrees Centigrade.

Protection degree: IP 20

Color: Glossy white

#### **Mounting:**

Flush mounted with four screws on the ceiling.

#### **LED : Characteristics**

Number of light emitted diode: 1

Semiconductor : Indium Gallium

Life Span: 50 000 hours (Normal use conditions)

Led compliance: UL listed, RoHS.

**Cooling system:** Double Alfa Heat Sink made with alumium sheets , surface heat transfer  $S > 80 \text{ cm}^2$  per watts (European Patent Pending) this fitting is intended to be intensively used in hot and cool countries.

**Ambient working temperatures:** from -40 degrees up to +40 degrees.

special heat sinks are manufactured for warmer temperatures upon special request.

**Working heat sink temperature:** Max.60 degree C.

**Working Led temperature:** Max 70 degree

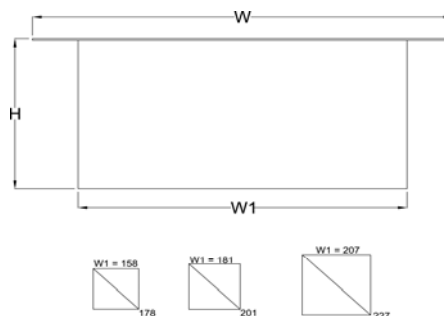
#### **Optical Diffuser:**

Bright aluminium reflector: High Grade Aluminium Reflector is integrated in the fitting to meet CAT 2 requirements and to eliminate light pollution.

**Protective Glass Cover:** Yes

#### **Fitting dimensions**

|         | Led power | L   | L1  | H    |
|---------|-----------|-----|-----|------|
| ASM 120 | 1X20W     | 230 | 181 | 91.5 |



**Technical characteristics:**

Nominal Power: 20 Watts

Working Power: 23 Watts

Input AC 110-240 Volts / 50-60 Hz

Constant current driver specifications: 1400 mA/16.2 Volts - IP 66 case

**Luminous flux :** 2000 lumens

**Output light angle:** 105 degree

**Light color temperature :** from 5000 k up to 7000 k

**color rendering index:** 80 %

**Country of origin**

**LED:** United states of America

**Driver :**Taiwan

**Heat Sink:** Lebanon

Compliance: CE , EN 60598

**Packing:**

Each fitting is packed in one carton box.

Box Dimension: 20 x 20 x 15 cm

Weight: : 3.5 Kg

[www.astralux.com](http://www.astralux.com)

**Astra Commitment****\*Environmental compliance**

Astra LED products are compliant to the European Union directives on the restriction of hazardous substances in electronics equipment.

Astra will not intentionally include in its manufacturing procedures any LED with the following restricted material :

Lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls (PBB) or polybrominated diphenyl ethers (PBDE)