



AL ESRA ALUMINIUM  
الإسراء أألمنلوم

Products Catalogue



ESRA LIGHT



MODEL - LP116



MODEL - LP118



MODEL - LP117



MODEL - LP124



MODEL - LP123



MODEL - LP134



MODEL - LP133



MODEL - LP125



MODEL - LP127



MODEL - LP128



MODEL - LP122





MODEL - LP115



MODEL - LP120



MODEL - LP119

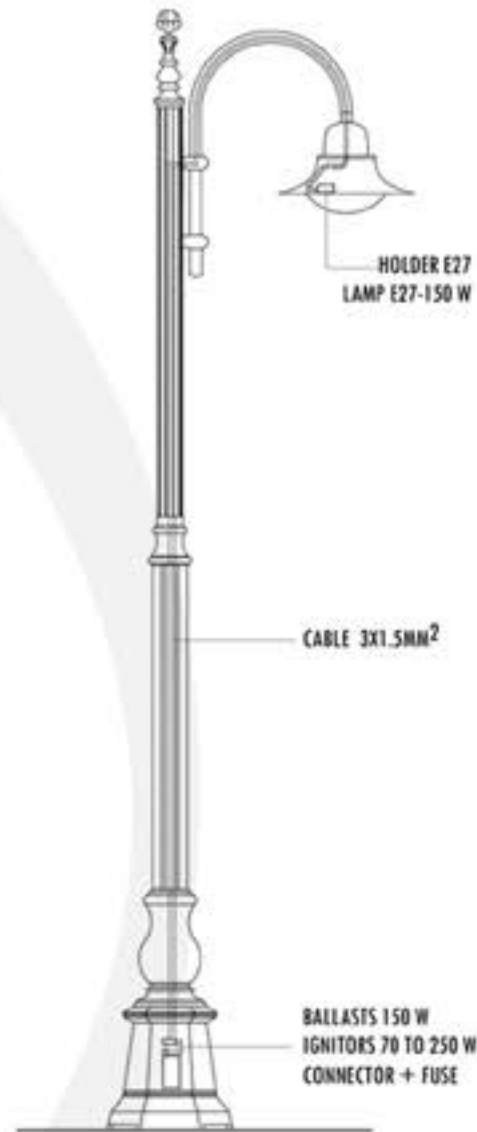
# LAMP DETAILS



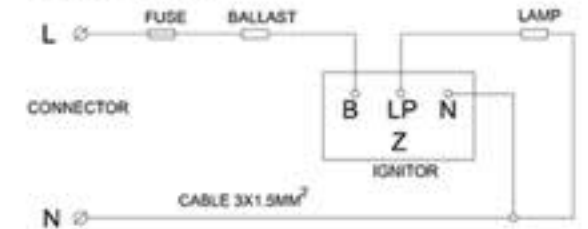
## TECHNICAL SPECIFICATION

- ★ Aluminium die-casting housing
- ★ Shti flaming PC lens
- ★ Level of protection: IP65
- ★ Corrosion proof Class of shell: II
- ★ Ambient temperature: 35 0C +- 45 0C
- ★ Power illuminante : 70W-150W
- ★ Single end metal lamp or stadium lap
- ★ Power: 220V - 240V, 50Hz - 60Hz
- ★ Mounting height: 3.0m - 6.0m

## TECHNICAL DRAWING



## DIAGRAM



## TECHNICAL PARAMETERS

ITEM	CONFIGURATION
BALLAST	FOR HS/HL LAMP 150 W-1.80A/λ .045/TW130/Ø175
IGNINORS	Voltage AC 220 - 240 HS 70 (DE)-400 W
LAMP	LU150/T/27
FUSE BASE	RT 18 - 32
FUSE	10X38 IT = 100KA/60t
CABLE	3x2.5 MM²
CONNECTOR	CNR 02 /4MM
WIRE	THHN/THWN 600V 14AWG

## DIMENSION



# POLE DETAILS

## TECHNICAL SPECIFICATION

- ★ ASTM. B26 / B26M
- ★ AMS.4218
- ★ UNS number. 356.0: A03560. A356.0: A13560
- ★ Government. 356.0: QQ-A-601, QQ-A-596.
- ★ A356.0: MIL-C-21180 (Class 12)
- ★ Foreign. ISO:AlSi7Mg

## MASS CHARACTERISTICS

Density. 2.685 g/cm<sub>3</sub> (0.097 lb/in<sub>3</sub>) at 20°C (68°F)



## CHEMICAL COMPOSITION

Composition limits. 356.0: 0.25 Cu max, 0.20 to 0.45Mg, 0.35 Mn max, 6.5 to 7.5 Si, 0.6 Fe max, 0.35 Zn max, 0.25 Ti max, 0.05 other (each) max, 0.15 others (total) max, bal Al. A356.0: 0.20 Cu max, 0.25 to 0.45 Mg, 0.10 Mn max, 6.5 to 7.5 Si, 0.20 Fe max, 0.10 Zn max, 0.20 Ti max, 0.05 other (each) max, 0.15 others (total) max, bal Al. Consequence of exceeding impurity limits. High copper or nickel decreases ductility and resistance to corrosion. High iron decreases strength and ductility.

## APPLICATIONS

Typical uses: Decorative Screen, Oriel, Gates, Decorative Lighting, Railing, Other applications where excellent castability and good weldability, pressure tightness, and good resistance to corrosion are required.

## MECHANICAL PROPERTIES

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## THERMAL PROPERTIES

Liquidus temperature: 615 °C (1135°F)  
Solidus temperature: 555 °C (1035°F)  
Coefficient of linear thermal expansion.

Temperature range		Average coefficient	
°C	°F	p.m/mK	p.in/in. °F
20 - 100	68 - 212	21.5	11.9
20 - 200	68 - 392	22.5	12.5
20 - 300	68 - 572	23.5	13.1

Specific heat. 963 J/kg . K (0.230 Btu/lb.°F) at 100°C (212°). Latent heat of fusion. 389kJ/kg  
Thermal conductivity. At 25 °C (77°F)

## MINIMUM MECHANICAL PROPERTIES FOR ALLOY A356.0-T61 CASTINGS

Class	Tensile strength		Tensile yield strength (b)(c)			Compressive yield strength (e)	
	MPa	Ksi	MPa	Ksi	Elongation(d)%	MPa	Ksi
01	260	38	195	28	05	195	28
02	275	40	205	30	03	205	30
03	310	45	235	34	03	235	34
10	260	38	195	28	05	195	28
11	230	33	185	27	03	185	27
12	220	32	150	22	02	150	22

(a) Classes 1,2, and 3 (levels) of properties) obtainable only at designated areas of casting; classes 10,11 and 12 may be specified at any location in casting. (b) Specified in MIL-A-21180. (c) 0.2% offset. (d) in 4d. where d is diameter of reduced section of tensile-test specimen. (e) Design values; not specified.



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Al-Madina Al-Munawara, Kingdom of Saudi Arabia  
Tel. : + 966-14-8480222 Fax. : + 966-14-8403320