إحدى شركات مجموعة البدرى للتنمية والاستثمار

## **BADRY Lighting Professionals' Co**

## Technical Specifications of Lighting Poles

This specification shows all manufacturing, finishing and inspecting of steel lighting poles used for supporting luminaries at the specified height ranging from 3 to 16m.

• The Lighting poles are manufactured from one segment, tapered type, from hot rolled steel sheets which could formed by press brake and welded longitudinally by submerged arc welding machine.

#### Material

- Structural steel for shaft, base plate and anchor bolts comply with the requirements of DIN17100 St 37-2.
- Maximum ultimate tensile strenath 520N/mm<sup>2</sup>.
- Minimum ultimate tensile strength 340N/mm<sup>2</sup>
- Minimum yield strength 235N/mm<sup>2</sup>.
- Elongation 26%

#### **Engineering**

- The considered design wind speed is 125 Km/hr acting on the most unfavorable direction, taking into account the effect of the luminaries, which has an effective wind area in addition to the projected area of the bracket.
- Design per AASHTO 2001, (American Association of State Highway) and Transportation Officials), Standard Specifications Support for Highway Signs, Luminaries and Traffic signs.

### Welding

 Welding is performed according to the American standard AWS or equivalent.

### **Door Opening**

 The pole is provided with door opening of suitable dimensions to accommodate the electrical equipment.



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## شركة البدرى للإضاءة المتخصصة

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### **Base Connection**

Two types of connections to concrete footing can be furnished depending on customer requirements:

- · Connection via anchor bolts.
- · Direct planting of pole into concrete footing.

### **Finishing**

- Hot dip galvanized is specified to protect the lighting poles against rust or corrosion.
- All components of the column and bracket are hot dip galvanized after completion of the fabrication.
- Prior to hot dip galvanization, provision of vent and drainage holes is carried out.
- The galvanized coating shall be continuous, reasonably smooth free from acids, black spots and zinc spikes
- Minimum thickness coating is  $65 \, \mu m$  ( $460 \, g/m^2$ ) for thickness under 5mm and  $86 \, \mu m$  ( $610 \, g/m^2$ ) for thickness more than 5mm inside and outside the column as per British standard BS 729



Cairo Airport

- Any damage of galvanization is rectified during erection by wire brushing the defected area, treating with an approved rust converter to the satisfaction of the customer.
- Painting can be applied instead of galvanization according to customer requirement. One coat
  of alkyd primer are applied.

### **Carrying Capacity**

- One, two, three or four arm brackets to support street lanterns.
- · Decorative cross arms.
- Fixtures can be added to support three phases' voltage conductors and earth wire. A fifth conductor can also be added for subsidiary lighting.

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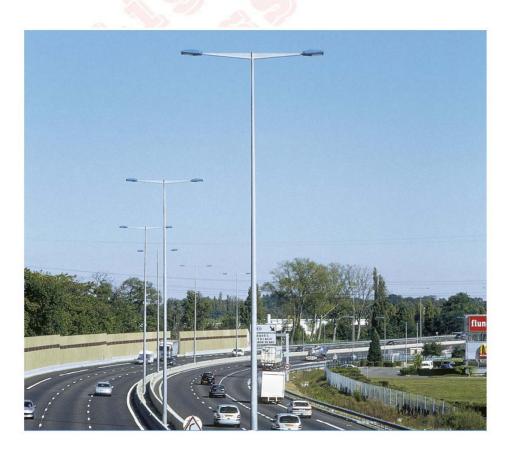
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