



CONTENTS

STREET LANTERN
(ANGEL 93).....E1

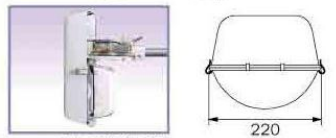
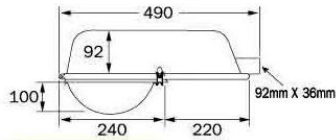
STREET LANTERN
(ANGEL 2003).....E2

ANGEL 93 STREET LANTERN



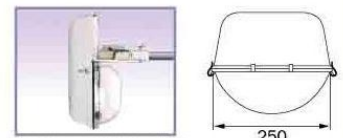
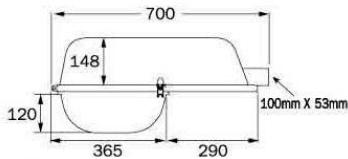
Angel 93 70w-125w

Angel 93 100w-250w



Top access of Angel 93 70W - 125W

Dimension for Angel 93 70W - 125W



Top access of Angel 93 100W - 250W

Dimension for Angel 93 100W - 250W

Features:

- Canopy is made of one-piece aluminum without any joint.
- Epoxy powder coated for canopy and control gear plate.
- One piece without joint quality gasket for excellent seal.
- Injection acrylic bowl, which can withstand heat and ultra violet ray.
- Chromed or anodized aluminum reflector for optimum reflector.
- No Zebra effect during operation.
- Top access for easy maintenance and installation.
- Removable control gear tray for easy replacement of part.
- Do not need any special tool for installation or dismantle.
- IP 55 for optical compartment, IP65 available on request .
- IP 43 for gear compartment.
- Low lamp voltage rise.
- Available in SON, Metal Halide & Mercury from 70W to 250W.
- Reflector optical: Semi or full bowl reflector.
- **3 years warranty against manufacturer defect (housing only)**
- **For photometric see photometric section (page P8)**

Standard Complied:

- MS IEC 60598-2-3: 1997
- MS IEC 60598-1: 2006



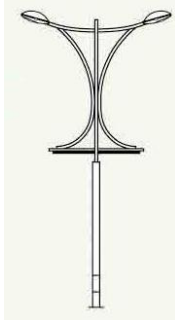
Model	Type of Control Gear	Lamp Rating	Lamp Holder	Mounting Spigot Dimension	Weight (Kg)	Packing (Unit/Box)	Delivery
ANGEL 93/70 SON-I	70W SON-I	70W	E27	L92mm x Ø 36mm	4.00	1	M
ANGEL 93/70 SON-E	70W SON-E	70W	E27	L92mm x Ø 36mm	4.15	1	M
ANGEL 93/100S	100W SON	100W	E40	L100mm x Ø 53mm	7.30	1	M
ANGEL 93/150S	150W SON	150W	E40	L100mm x Ø 53mm	8.20	1	M
ANGEL 93/250S	250W SON	250W	E40	L100mm x Ø 53mm	9.70	1	M
ANGEL 93/70MH	70W METAL HALIDE	70W	E27	L92mm x Ø 36mm	4.15	1	M
ANGEL 93/150MH	150W METAL HALIDE	150W	E27	L100mm x Ø 53mm	8.20	1	M
ANGEL 93/250MH	250W METAL HALIDE	250W	E40	L100mm x Ø 53mm	9.70	1	M
ANGEL 93/80M	80W MERCURY	80W	E27	L92mm x Ø 36mm	3.90	1	M
ANGEL 93/125M	125W MERCURY	125W	E27	L92mm x Ø 36mm	4.30	1	M
ANGEL 93/250M	250W MERCURY	250W	E40	L100mm x Ø 53mm	8.30	1	M

ANGEL 2003 STREET LANTERN



Vertical Mounting

Horizontal Mounting



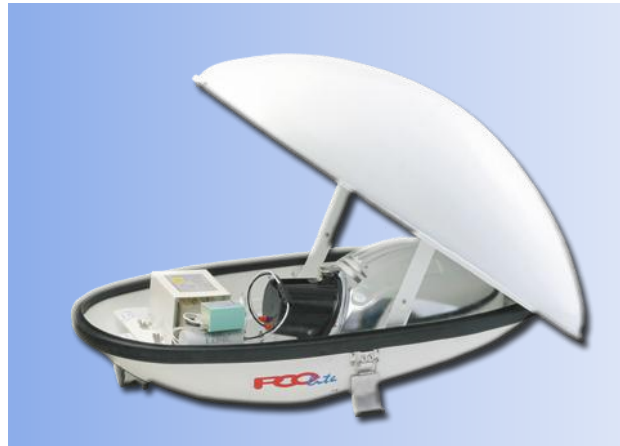
Features:

- Canopy is made of one-piece aluminum without any joint.
- Epoxy powder coated for canopy and control gear plate.
- One piece without joint quality gasket for excellent seal.
- Quality tempered glass which can withstand heat.
- Chromed or anodized aluminum full bowl reflector for optimum reflection.
- No zebra effect during operation.
- Top access for easy maintenance and installation.
- Removable control gear tray for easy replacement of parts.
- Do not need any special tool for installation or dismantle.
- Low glare designed optic bowl.
- Adjustable lamp bracket for different application.
- Low lamp voltage rise.
- Available in SON, Mercury & Metal Halide
- **Design and made in Malaysia**
- **Design Registration in Malaysia & China**

Application:

- Minor Road, Major Road, Highway
- Garden





Standard Complied:

- MS IEC 60598-2-3: 1997
- MS IEC 60598-1: 2006

Technical Specification Construction and Components:

- Main Luminaries Housing : Aluminum deep drawn constructed to withstand vibration, heavy rains fall, hot day high temperature, strong winds and high humidity in normal use.
- Access Type : Top Access.
- Reflector : High purity electro-polished Anodized Aluminum.
- Optical bowl : Curved tempered glass.
- Hinge & Clip : Stainless steel and self blocking.
- Rubber Gasket : EPDM – Ethylene Propylene Diene Methylene Excellent heat resistance ageing.
- Lamp Holder : E40 porcelain type (MKI & MKII).
E27 porcelain type (MKI).
- Fixing Screw : Stainless steel bolt and nut.
- Gear system tray : Removable, epoxy powder coated finishing.
- Mounting : Horizontal mounting or Vertical mounting.
- Spigot dimension : 110mm x Ø 53mm (MKI & MKII).
- Capacitor : Comply to MS 279 :1983 standard.
- Ignitor : PCO Lite Superimposed digital cut off ignitor (standard comply : IEC 60926 :1995 & IEC 60927 : 1996 + 1: 1999).
- Ballast : PCO Lite polyester filled high pressure ballast (Standard comply: MS ICE 60922 & MS ICE 60923:1995).
- Terminal : Plug and socket type.
- Lamp : Tubular or bulb.
- Protection grade : IP 66 : Full housing compartment and lamp compartment.
- Arm bracket spigot : 2 locking bolt/ jam screw (MKI).
: 3 locking bolt/ jam screw (MKII).
- Warranty : **3 Years against manufacturer defect (Housing only).**
- Photometric : **MKI see Photometric section (page P14).**
: **MKII see Photometric section (page P15).**
- Decorative Pole : **See Decorative Poles Section (page C11 to C17).**

ANGEL 2003 STREET LANTERN



MODEL DESCRIPTION

ANGEL 2003 MKI

Model	Type of Control Gear	Lamp Rating	Lamp Holder	Mounting Spigot Dimension	Weight (Kg)	Packing (Unit/Box)	Delivery
ANGEL 2003 MKI/70S	70W SON	70W	E27	110mm x Ø 53mm	6.70	1	M
ANGEL 2003 MKI/100S	100W SON	100W	E40	110mm x Ø 53mm	7.50	1	M
ANGEL 2003 MKI/150S	150W SON	150W	E40	110mm x Ø 53mm	8.10	1	M
ANGEL 2003 MKI/250S	250W SON	250W	E40	110mm x Ø 53mm	9.50	1	M
ANGEL 2003 MKI/80M	80W MERCURY	80W	E27	110mm x Ø 53mm	6.65	1	M
ANGEL 2003 MKI/125M	125W MERCURY	125W	E27	110mm x Ø 53mm	6.85	1	M
ANGEL 2003 MKI/70MH	70W METAL HALIDE	70W	E27	110mm x Ø 53mm	6.90	1	M
ANGEL 2003 MKI/150MH	150W METAL HALIDE	150W	E27	110mm x Ø 53mm	8.10	1	M
ANGEL 2003 MKI/250MH	250W MERCURY	250W	E40	110mm x Ø 53mm	9.50	1	M

ANGEL 2003 MKII

Model	Type of Control Gear	Lamp Rating	Lamp Holder	Mounting Spigot Dimension	Weight (Kg)	Packing (Unit/Box)	Delivery
ANGEL 2003 MKII/250S	250W SON	250W	E40	110mm x Ø 53mm	14.20	1	M
ANGEL 2003 MKII/400S	400W SON	400W	E40	110mm x Ø 53mm	15.10	1	M
ANGEL 2003 MKII/600S	600W SON	600W	E40	110mm x Ø 53mm	16.50	1	M
ANGEL 2003 MKII/250MH	250W METAL HALIDE	250W	E40	110mm x Ø 53mm	14.20	1	M
ANGEL 2003 MKII/400MH	400W METAL HALIDE	400W	E40	110mm x Ø 53mm	15.10	1	M



PERBADANAN HARTA INTELEK MALAYSIA
INTELLECTUAL PROPERTY CORPORATION OF MALAYSIA

AKTA REKA BENTUK PERINDUSTRIAN 1996
PERATURAN-PERATURAN REKA BENTUK PERINDUSTRIAN 1999
(Peraturan 20)

PERAKUAN PENDAFTARAN
SUATU REKA BENTUK PERINDUSTRIAN

Nombor Pendaftaran	: MY 04-00388
Tarikh Pendaftaran	: 14 Jun 2004
Tarikh Prioriti	: -
Tarikh Pemfailan	: 14 Jun 2004
Tarikh Pemberian Perakuan	: 23 Jun 2005
Barang atau set Barang yang berkenaan dengannya Reka Bentuk Perindustrian itu didaftarkan	: STREET LAMP

Dengan ini disahkan bahawa,

menurut dan tertakluk kepada peruntukan Akta Reka Bentuk Perindustrian 1996 dan Peraturan-Peraturan Reka Bentuk Perindustrian 1999, Reka Bentuk Perindustrian atau Reka Bentuk-Reka Bentuk Perindustrian yang representasi atau representasi-representasi dikepilkan, telah atau pun didaftarkan pada tarikh pendaftaran di atas, atas nama **PCO LITE ELECTRICAL SDN. BHD.** di alamat **LOT NO. 157880 (PT 1283), OFF JALAN DEGONG, 31900 KAMPAR, PERAK DARUL RIDZUAN, MALAYSIA** berkenaan dengan suatu permohonan pendaftaran Reka Bentuk Perindustrian.


(**MOHD. FAIIZUDIN BIN MOHD. SHARUJI**)
b.p. Pendaftar
Reka Bentuk Perindustrian Malaysia

P.U. (A) 351

- Design and made in Malaysia
- Design Registration in Malaysia & China