

# Arc

**IP 66**  
(SIP)

**IP 66**  
(DIP)

**IK 08**  
(Glass)

**IK 09**  
(Bowl)

**Class I**

**Class II** 



Complete and multi-functional range in a modern timeless design and with highly valued concepts like Double Ingress Protection (DIP), Controlled Breathing Technology (CBT) and Safe Maintenance Technology (SMT).

## **Applications**

Consult pages 16-19

## **Lamps**

High pressure sodium  
up to 400W (SE)  
up to 600W (ST)  
Quartz metal halide  
up to 400W  
Ceramic metal halide  
up to 250W  
Compact fluorescent  
up to 57W (FSM)  
up to 120W (FSM6H)  
Fluorescent induction  
up to 165W



Arc 80  
Polycarbonate Bowl



Arc 80 and 90  
Curved Glass



Arc 80 and 90  
Flat Glass



Arc 80      Arc 90  
Side entry and post top  
mounting



version DIP



**6 Bowl** toughened curved glass, flat glass or UV stabilized polycarbonate bowl (Arc 80 only).

**7 Canopy/frame** upper canopy (7a) and lower frame (7b) in die-cast aluminium (LM6) standard RAL 9007 (other colours on request).

**8 Mounting system** reversible spigot of die-cast aluminium (LM6) in same colour as canopy/frame, for post top  $\varnothing$  60-76mm and side entry  $\varnothing$  60mm (32-34-42-48mm with adapter). Column mounting with two stainless steel M10 bolts.

**9 Opening/closing** stainless steel closing clip fixed at front of frame (9a); canopy hinges upwards and has a safety catch to keep it in a fixed position during maintenance (9b).

**10 Disconnect SMT** automatic power disconnection when cover is opened.

**11 Gear tray** composite material, removable without tools by plug/socket connectors and two stainless steel retaining clips; some electronic gear and 600W gear on aluminium gear tray.

**Control gear** electromagnetic or electronic depending on lamp type/wattage; electromagnetic gear for metal halide standard with timed ignitor; bi-power ballasts and dimming systems on request; versions with mini-Photocell, NEMA socket or pre-wired for cell.

**12 Cable connection** M20 gland with strain relief, for 7-12mm cable diameter.

**Insulation** Class II as standard, for Class I earth wire to be connected on special stud.

# Arc

## CHARACTERISTICS

### Universal mounting system

Arc can be mounted on all common column diameters in a versatile way.



### Mounting side entry Ø 60mm

Adapter for Ø 32-48mm.



### Mounting post top Ø 60-76mm

Adapter to fill up gap Ø 60-76mm available as an option.



### Central spigot bolt for post top/side entry arrangement and tilt adjustment

The spigot arrangement can easily be set in post top or side entry position by loosening the central spigot bolt and turning the spigot. The central spigot plate has to be put in post top or side entry position, and in the required tilt angle (post top 0°, +5°, +10°; side entry 0°, -5°, -10°).



### Fixing to column

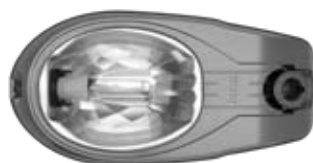
Fixing to column is with two M10 bolts (for fixing on widest column diameters shorter bolts are available on request).



### High performance optical systems



**Arc80-S**  
Symmetrical optic for all Arc 80 lamps.



**Arc90-S**  
Symmetrical optic for all Arc 90 lamps.



**Arc80-A and Arc90-A Pedestrian crossing**  
Asymmetrical optic for high pressure sodium lamps up to 150W (Arc 80) or 250W (Arc 90), in right hand drive (RHD) or left hand drive (LHD) version (only in SIP protection).



**Arc80-B Cycle path**  
Symmetrical wide beam optic for high pressure sodium lamps up to 70W (only in SIP protection).



**ExaCT-Performer**  
Symmetrical micro optic for ceramic metal halide lamps up to 150W; for optimisation of spacings (only in DIP protection).



**ExaCT-Comfort**  
Symmetrical micro optic for ceramic metal halide lamps up to 150W; for minimisation of glare and upward light (only in DIP protection).

### Basic Bowl/Glass versions



Polycarbonate bowl version for max. impact/vandal resistance at lower mounting heights.



Curved glass version for general high performance lighting (max. spacing).



Flat glass version for max. glare and upward light limitation.

### Anti-glare shields

For further reduction of obtrusive forward or backward light special anti-glare shields are available in two sizes, which can also be used retrofit.



### Lamp position adjustment

The light distribution of the optics can be more specifically adapted to the road geometry and/or the required results by adjusting the lamp position in horizontal or vertical (Arc80/90 optics only) direction. The available positions are clearly given in the photometric data.

- 1 – wide beam
- 4 – narrow beam
- A – wide street
- E – narrow street



Lamp holder SIP.



Lamp holder DIP.

### Total protection of optics and components



#### SIP (Single Ingress Protection)

The overall lantern has an IP 66 protection against the ingress of dust and moisture. On opening the lantern the optics hinge upwards with the canopy.



#### DIP (Double Ingress Protection)

In addition to the overall IP 66 protection of the lantern, the lamp compartment is separately protected by sealing the reflector to the glass/bowl, for an extra guarantee of the lighting performance over a long period of time.



#### Controlled Breathing Technology (CBT)

By a serie of filters and labyrinths the build up of detrimental moisture and dirt is avoided in both lamp and component compartments.



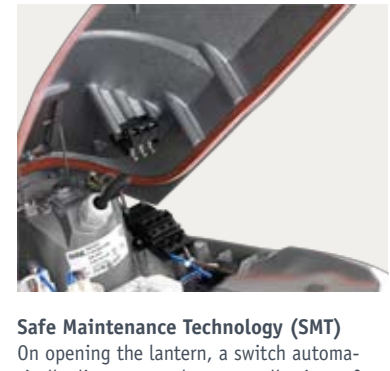
### Safe and easy installation and maintenance



With the stainless steel closing clip Arc can be opened and closed easily and without the use of tools.



When opened, the canopy is kept in a fixed position by a stainless steel safety catch.



#### Safe Maintenance Technology (SMT)

On opening the lantern, a switch automatically disconnects the power allowing safe access to the components. After entry of the main cable through the cable gland, the cable is connected to this safety switch.

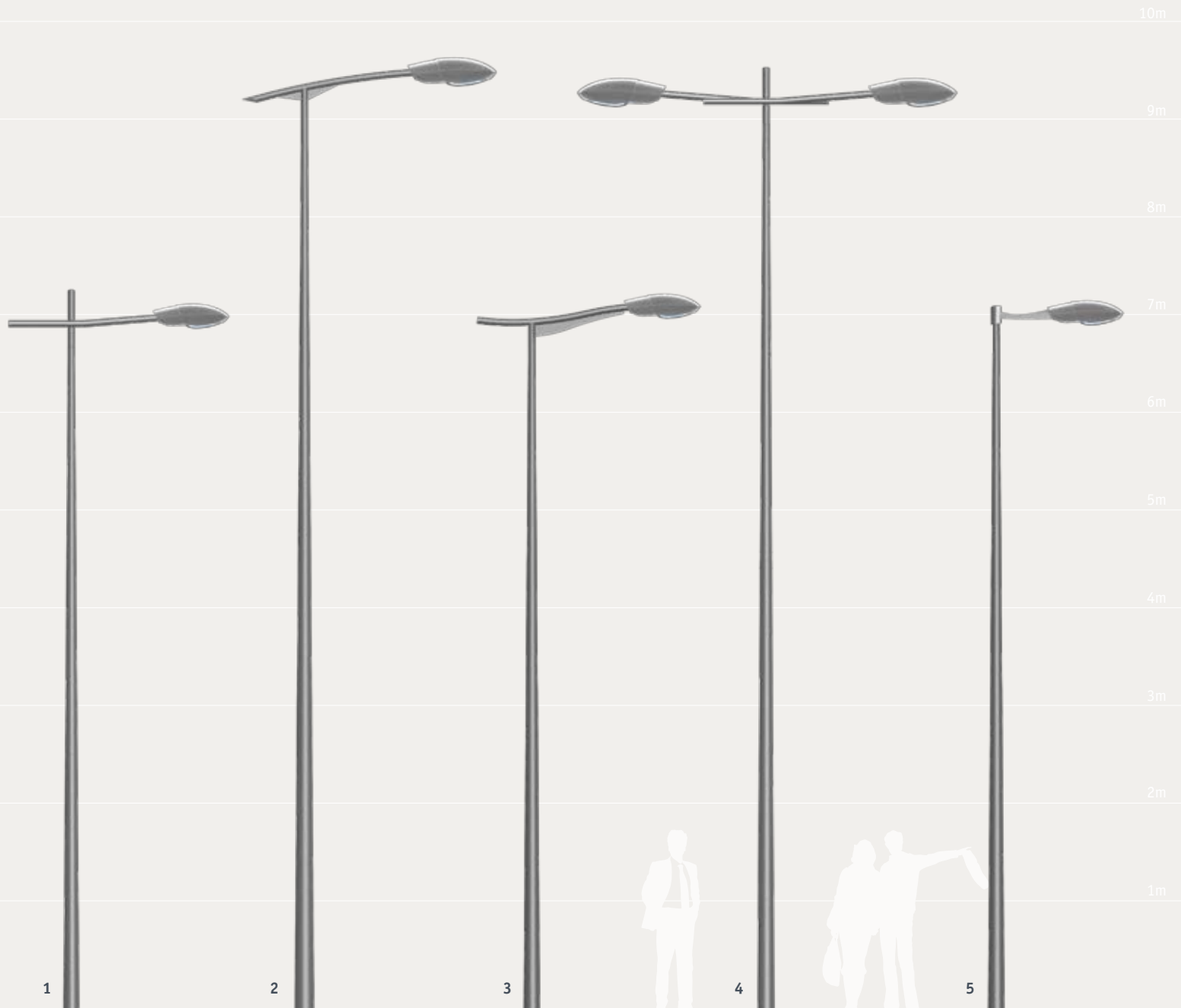


Both in SIP and DIP versions lamp replacement is done within seconds.



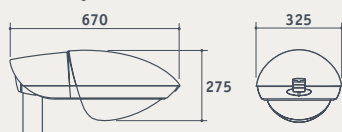
The gear tray with the components can be removed without the use of tools by disconnecting the plug and socket connection on the lamp side and pressing the stainless steel clips.

For a further integration of lantern and column towards a more decorative arrangement, a number of standard brackets is available. Some examples are shown here.

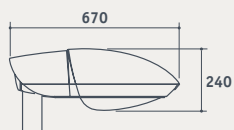


- 1 Rio Single - with Arc 80
- 2 Sao Paulo - with Arc 90
- 3 Salvador - with Arc 80
- 4 Rio Twin - with Arc 90
- 5 Arc-Lux die-cast aluminium - with Arc 80

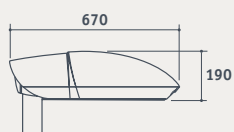
Arc 80 Polycarbonate Bowl



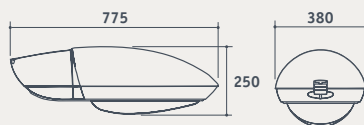
Arc 80 Curved Glass



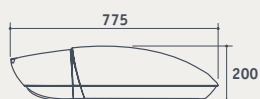
Arc 80 Flat Glass



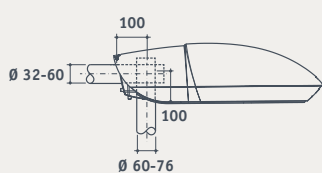
Arc 90 Curved Glass



Arc 90 Flat Glass



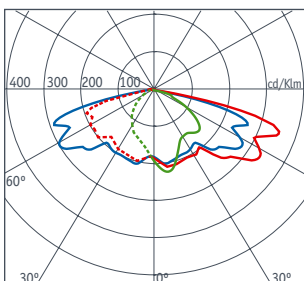
Mounting details



Type

Type	Arc 80 Polycarbonate Bowl	Arc 80 Curved Glass	Arc 80 Flat Glass	Arc 90 Curved Glass	Arc 90 Flat Glass
Windage area (m <sup>2</sup> )	0.122	0.115	0.104	0.140	0.126
Weight (kg)	7-10	7-10	7-10	11-14	11-14

Arc 80 Curved Glass



Reflector

Arc80-S

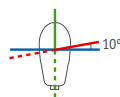
Lamp

ST-150

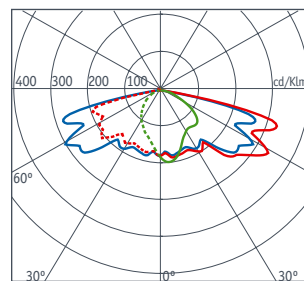
Performance

ULOR: 0%

DLOR: 78%



Arc 90 Curved Glass



Reflector

Arc90-S

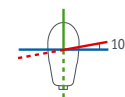
Lamp

ST-250

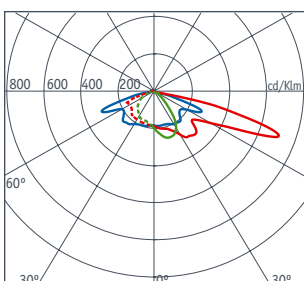
Performance

ULOR: 0%

DLOR: 77%



Arc 80 Curved Glass



Reflector

ExaCT-Performer

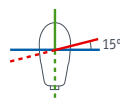
Lamp

ST-140

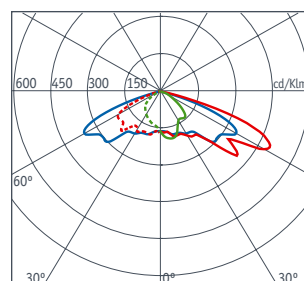
Performance

ULOR: 0%

DLOR: 80%



Arc 90 Flat Glass



Reflector

Arc90-S

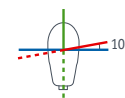
Lamp

ST-250

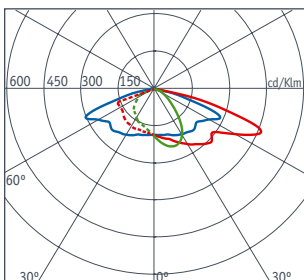
Performance

ULOR: 0%

DLOR: 77%



Arc 80 Curved Glass



Reflector

ExaCT-Comfort

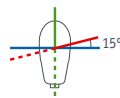
Lamp

MT-140

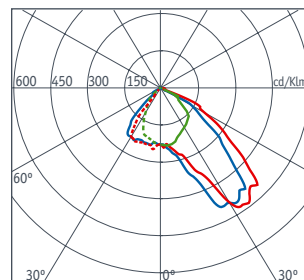
Performance

ULOR: 0%

DLOR: 79%



Arc 80 Pedestrian Crossing



Reflector

Arc80-A (RHD)

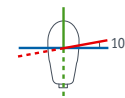
Lamp

ST-70

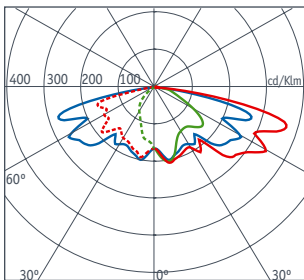
Performance

ULOR: 0%

DLOR: 74%



Arc 80 Polycarbonate Bowl



Reflector

Arc80-S

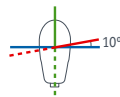
Lamp

ST-70

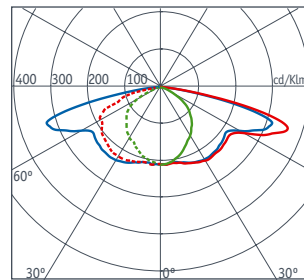
Performance

ULOR: 1%

DLOR: 77%



Arc 80 Cycle Path



Reflector

Arc80-B

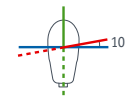
Lamp

ST-70

Performance








































ULOR: 0%

DLOR: 72%



### OPTIONS

- Including lamp and cable
- Wired for cell (WFC), mini Photocell or NEMA socket
- Other RAL colours on request
- DIM versions (including preparation for Control & Monitoring Systems)
- Electronic ballast for ST/MT

MODEL	TYPE	SHAPE	LAMP HOLDER	BOWL			REFLECTOR							
				Curved Glass	Flat Glass	PC Bowl	Arc80-S Symm. (SNN)	Arc90-S Symm. (SNN)	ExaCT Performer (PNN)	ExaCT Comfort (CNN)	Arc80-A Asymmetric Pedestrian Crossing (only SIP) (ANN) (RHD OR LHD)	Arc90-A Asymmetric Pedestrian Crossing (only SIP) (ANN) (RHD OR LHD)	Arc80-A Cycle Path (only SIP) (BNN)	
<b>Arc 80</b> <b>SIP or DIP</b>	ST-50		E27	•	•	•	•				•		•	
	ST-70		E27	•	•	•	•				•		•	
	ST-100		E40	•	•	•	•				•			
	ST-150		E40	•	•	•	•				•			
	SE-50		E27	•	•	•	•							
	SE-70		E27	•	•	•	•							
	SE-100		E40	•	•	•	•							
	(only SIP)	SE-150		E40	•	•	•	•						
		MT-50		E27	•	•	•	•				•		•
		MT-70		E27	•	•	•	•				•		•
		MT-100		E40	•	•	•	•				•		
		MT-150		E40	•	•	•	•				•		
		ME-70		E27	•	•	•	•						
	(only SIP)	ME-100		E40	•	•	•	•						
		ME-150		E40	•	•	•	•						
	MT-45		PGZ12	•	•	•	•		•	•				
	MT-60		PGZ12	•	•	•	•		•	•				
	MT-90		PGZ12	•	•	•	•		•	•				
	MT-140		PGZ12	•	•	•	•		•	•				
	MT-35		G12	•	•	•	•		•	•				
	MT-70		G12	•	•	•	•		•	•				
	MT-150		G12	•	•	•	•		•	•				
	FSM-26/32/42		GX24q-3/4	•	•	•	•							
	FSM-57		GX24q-5	•	•	•	•							
	FSM6H-60		2G8-1	•	•	•	•							
	FSM6H-85		2G8-1	•	•	•	•							
(only SIP)	FSG-55		Twist Base	•	•	•	•							
(only SIP)	FSG-85		Twist Base	•	•	•	•							
<b>Arc 90</b> <b>SIP or DIP</b>	ST-150		E40	•	•								•	
	ST-250		E40	•	•								•	
	ST-400		E40	•	•								•	
	ST-600		E40	•										
	(only SIP)	SE-150		E40	•	•								•
	(only SIP)	SE-250		E40	•	•								•
	(only SIP)	SE-400		E40	•	•								•
		MT-150		E40	•	•								•
		MT-250		E40	•	•								•
	(only SIP)	ME-150		E40	•	•								•
	(only SIP)	ME-250		E40	•	•								•
		FSM6H-120		2G8-1	•	•								
		MT-400		E40	•	•								•
	(only SIP)	ME-400		E40	•	•								•
	(only SIP)	FSG-165		Twist Base	•	•								•

For more information about lamps, consult pages 386-389.