

# ILLUMINATING EVERY NICHE



## SMART SERIES



البابطين للطاقة و الاتصالات  
AL-BABTAIN POWER & TELECOM

# SMART SERIES

Al Babtain **Smart Series** offers a high level of performance while providing wide distribution of the light to meet enterprise, service provider, and small-and-medium business organization expectations.

The Smart Series is also CE marked ensuring the compliance with the European legislation, for verifying all the fundamental safety, health and environmental protection requirements. They are versatile street light luminaires, aesthetically designed with dedicated facet optics to optimize the beam control and to achieve an excellent lighting level.

## Technical Data Chart

Luminaire Type	Lamp					Weight	Windage Area
	HPM	HPS	MH			KG	
SMART 04	-	1000W	1000W		X	22.50	0.176 M <sup>2</sup>
	-	600W	600W		X	20.35	
SMART 05	250W	-	-	X		12.7	0.148 M <sup>2</sup>
	-	250W	-	X	X	13.3	
	-	400W	-		X	15.0	
	-	-	400W		X	15.0	
	-	600W	-		X	17.3	
SMART 06	-	100W	-	X	X	8.4	0.10 M <sup>2</sup>
	-	150W	150W	X	X	9.7	
	250W	-	-	X		9.8	
	-	250W	-	X	X	9.9	
	-	-	250W	X	X	9.9	
SMART 07	-	70W	70W			4.5	0.056 M <sup>2</sup>
	80W	-	-			5.1	
	-	100W	100W			5.6	
	-	110W	-			5.2	
	125W	-	-			5.3	
	-	150W	150W			6.0	

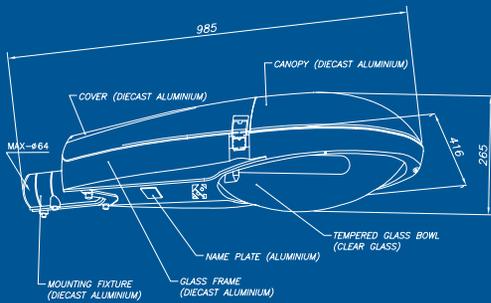
## IP Chart

LUMINAIRE	IP	
	OPTICAL COMPARTMENT	CONTROL GEAR COMPARTMENT
SMART 04	66	66
SMART 05	66	66

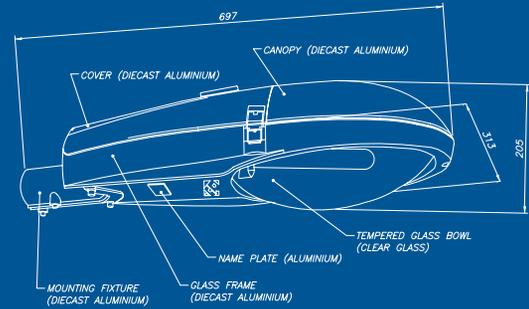
LUMINAIRE	IP	
	OPTICAL COMPARTMENT	CONTROL GEAR COMPARTMENT
SMART 06	66	66
SMART 07	66	66



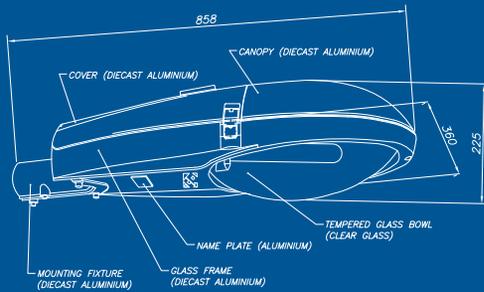
# SMART SERIES



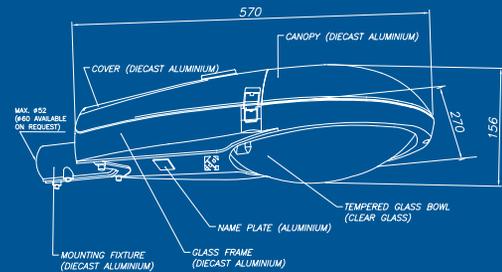
SMART 04



SMART 06



SMART 05



SMART 07

## Application

It is used for illuminating express, major, collector, local, and service roads, and more.

## Construction Features

### Construction

It is built of die cast aluminum alloy that is made of canopy, glass frame and mounting fixture, finished in electrostatic powder paint and it has a Stainless Steel self-locking prop. The aluminum-glass construction gives a solid expression to the design of the lantern.

With optimal climate conditions, it enables a compact shape as required from a design perspective. It has a high heat resistant tempered glass bowl, side entry mounting, and easy access to all the electrical components from the topside without disturbing the lamp. Lamp setting can be varied horizontally and vertically. The 'plug & play' lamp holder adaptor makes lamp replacement simple. The die cast aluminum lamp holder adaptor and housing adjustable lamp setting enable achieving better output.

### Optical system

#### Reflector

A one-piece reflector is used separately with a computer designed seamless optic, which will concentrate light exactly where it is needed. It is made of a very high purity aluminum alloy that is chemically polished, anodized and sealed.

Fine adjustment of the lamp in both the horizontal and vertical planes gives precise beam control to meet all design configurations.

### Voltage system

220/ 230/ 240V

50-60 Hz

Other voltages are available on request.

### Electrical Class

Class – I



[www.al-babtain.com.sa](http://www.al-babtain.com.sa)



البابطين للطاقة و الاتصالات  
AL-BABTAIN POWER & TELECOM

# ILLUMINATING EVERY NICHE



## RIYADH SERIES



البابطين للطاقة و الاتصالات  
AL-BABTAIN POWER & TELECOM

# RIYADH SERIES

Riyadh series has intelligent technical qualifications that foreseen all possible expectations, which makes illuminating the rural streets its' main unique selling point.

## Application

It is used for illuminating collector, local, and service roads.

## Construction Features

### Construction:

#### Canopy:

The canopy is made of pure aluminum sheet of deep drawing grade stamped and formed rigidly, which encloses the optical system. It is finished in electrostatic powder coating.

The canopy is itself retaining in its open position and has no loose screws or bolts on it to be cared of during maintenance. The canopy can be rotated about an axis on the mounting fixture. This facilitates an easy top access to control gear components.

#### Reflector:

The reflector is made of a very high purity aluminum alloy chemically polished, anodized and sealed. The lamp holder adjustment, in the reflector compartment, enables the reflector to optically stabilize a cutoff/ semi cutoff light distribution.

An E-40 heavy-duty porcelain lamp holder is provided to Riyadh /1000 & 800.

An E-27 porcelain lamp holder is provided to Riyadh /500.

#### Voltage system:

220/ 230/ 240V

50-60 Hz

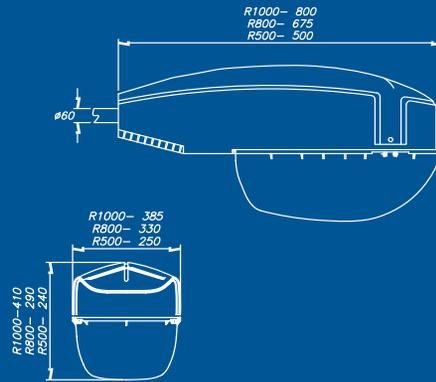
Other voltages are available on request.

#### Electrical Class:

Class – I



# RIYADH SERIES



RIYADH

## Technical Data Chart

Luminaire Type	Lamp					Weight	Windage Area
	HPM	HPS	MH			KG	
RIYADH /1000	400W	-	-	X		9.2	0.228 M <sup>2</sup>
	-	400W	-	X	X	11.2	
	-	-	400W		x	11.0	
RIYADH /800	250W	-	-	X		6.8	0.148 M <sup>2</sup>
	-	250W	-	X	X	8.2	
	-	-	250W		X	9.0	
	-	150W	-	X	X	7.0	
RIYADH /500	125W	-	-	X		4.9	0.086 M <sup>2</sup>
	80W	-	-	X		4.9	
	-	70W	-	X	X	4.8	
	-	-	70W	X	X	4.9	
	-	100W	100W	X	X	6.15	

## IP Chart

LUMINAIRE	IP	
	OPTICAL COMPARTMENT	CONTROL GEAR COMPARTMENT
RIYADH /1000	55	23
RIYADH /800	55	23
RIAYDH/500	55	23



# ILLUMINATING EVERY NICHE



## Z-SERIES



البابطين للطاقة و الاتصالات  
AL-BABTAIN POWER & TELECOM

# Z-SERIES

The Z-series includes adjustable reflective mirror for managing and provisioning the amount of light on the road. Its great coverage capabilities make its usage concentrated on high ways.

## Application

Industrial and commercial use of Z series high mast luminaire includes express lighting city centers, motorway intersections, flyovers, commercial complexes, railway yards, airport terminals, car parking areas, security lighting, service areas, and more. For the small user, one or two masts will provide effective and economical lighting covering the whole of the external premises.

## Construction Features

(Z 3415-17 Series)

### Construction:

#### Canopy:

The canopy is made of spun aluminum with inside and outside brightened finish for aesthetic appeal and to increase the performance. It is also provided with an additional layer of silicon rubber gasket around, inside the canopy to increase the IP protection.

### Reflector:

The optical system comprises 2 sets of very high purity pre-anodized aluminum reflectors multi faceted to produce twin beam light distribution in order to achieve the maximum light output on the road surface.

Each reflector has the facility to rotate for adjusting the toe beam angle from 0° to 40° in azimuth to direct the beam lumens to the curb or roadside, and to achieve symmetrical or asymmetrical light distribution.

The reflectors are mounted on an orientation disk. It can be rotated in azimuth through 360° within the body to facilitate specific choice of beam orientation that suits the layout of the roadways and its' interchanges regardless of the luminaire position (direction) on the mast top.

The reflector system is same for all the three models: Z3415/ 17RB, Z3415/ 17R.

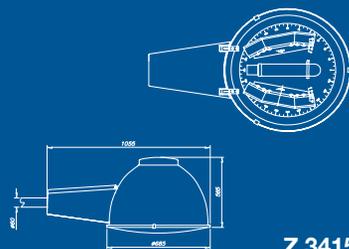
### Voltage system:

220/ 230/ 240V

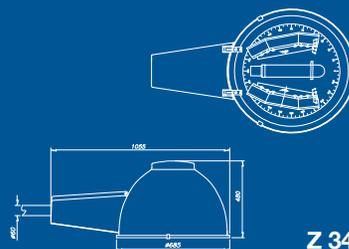
50-60 Hz, Other voltages are available on request.

### Electrical Class:

Class – I



Z 3415/17RB



Z 3415/17R

## Technical Data Chart

Luminaire Type	Lamp					Weight KG	Windage Area
	HPM	HPS	MH				
Z 3415/17RB	-	1000W	-		X	29.15	0.369 M²
	-	-	1000W		X	29.15	
Z 3415/17R	-	1000W	-		X	29.95	0.366 M²
	-	-	1000W		X	29.95	

## IP Chart

LUMINAIRE	IP	
	OPTICAL COMPARTMENT	CONTROL GEAR COMPARTMENT
Z3430/34R	65	55
Z3415/17RB	65	65



Z 3415-17 Series

# Z-SERIES

## Application

It is used for lighting express, major, trunk, collector and service roads, in addition to city centers, motorway intersections and flyovers.

## Construction Features

(Z 3430-34 Series)

### Construction:

#### Canopy:

The canopy is made of spun aluminum with inside and outside brightened finish for aesthetic appeal and to increase the performance.

In addition to that a silicon rubber gasket is provided around, inside the canopy to protect the optical compartment under IP 65. Canopy shape is different for both Z3430/ 34R & Z3434 as per the layout.

### Reflector:

The optical system comprises 2 sets of a very high purity pre-anodized aluminum reflectors multi faceted to produce a twin beam light distribution, in order to achieve the maximum light output on the road surface. Each reflector has the facility to rotate for adjusting the toe angle from 0° to 40° in azimuth to direct the beam lumens to the curb or roadside, and to achieve symmetrical or asymmetrical light distribution.

The reflectors are mounted on an adjustable disk which can rotate in azimuth through 360° within the body to facilitate specific choice of beam orientation to suit the layout of the roadways and interchanges regardless of the luminaire position (direction) on the mast top.

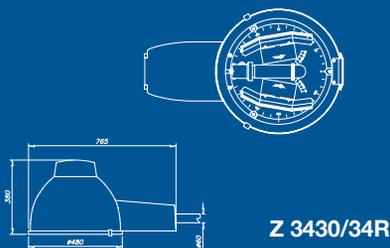
### Voltage system:

220/ 230/ 240V

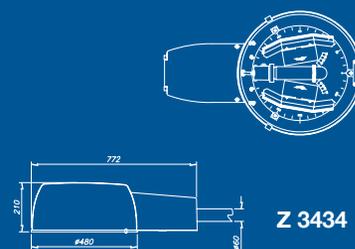
50-60 Hz, Other voltages are available on request.

### Electrical Class:

Class – I



Z 3430/34R



Z 3434

## Technical Data Chart

Luminaire Type	Lamp					Weight	Windage Area
	HPM	HPS	MH			KG	
Z 3430/34R	-	250W	-		X	11.5	0.165 M <sup>2</sup>
	-	-	250W		X	11.5	
	-	400W	-		X	13.95	
	-	-	400W		X	13.1	
	-	600W	-		X	16.45	
Z 3434	-	250W	-		X	11.5	0.135 M <sup>2</sup>
	-	-	250W		X	11.5	
	-	400W	-		X	13.0	
	-	-	400W		X	13.0	
	-	600W	-		X	15.4	

## IP Chart

LUMINAIRE	IP	
	OPTICAL COMPARTMENT	CONTROL GEAR COMPARTMENT
Z3434	65	55
Z3430/34R	65	55



Z 3430-34 Series

[www.al-babtain.com.sa](http://www.al-babtain.com.sa)



البابطين للطاقة و الاتصالات  
AL-BABTAIN POWER & TELECOM

[www.al-babtain.com.sa](http://www.al-babtain.com.sa)



البابطين للطاقة و الاتصالات  
AL-BABTAIN POWER & TELECOM

# ILLUMINATING EVERY NICHE



## AMENITY SERIES



البابطين للطاقة و الاتصالات  
AL-BABTAIN POWER & TELECOM

# AMENITY SERIES

Al Babtain lights up the world by providing Amenity Lighting for a range of under bridge and tunnel solutions. Amenity discovers a better filament for the incandescent lamp products for bridge lighting and tunnels.

## Technical Data Chart

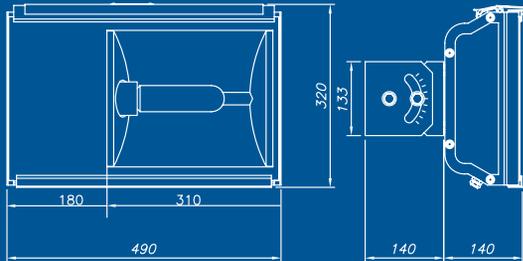
Luminaire Type	Lamp				Weight	Windage Area
	HPM	MH			KG	
AMENITY 01	150W	150W	X	X	9.60	0.156 M <sup>2</sup>
	100W	100W	X	X	8.80	
AMENITY 02	400W	400W		X	14.20	0.220 M <sup>2</sup>
	250W	250W		X	11.95	
	2x250W	2x250W		X	21.2	
	2x400W	2x400W		X	25.60	
AMENITY 03	2x400W	2x400W		X	25.60	0.220 M <sup>2</sup>
	2x250W	2x250W		X	21.2	

## IP Chart

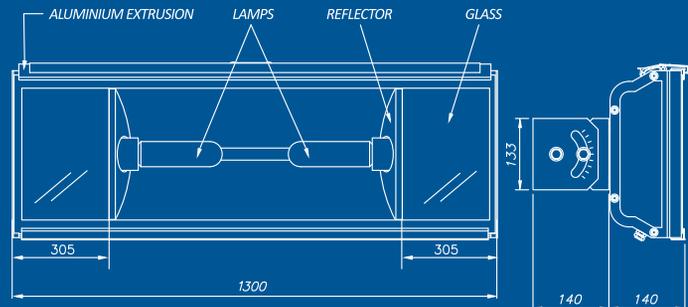
LUMINAIRE	IP	
	OPTICAL COMPARTMENT	CONTROL GEAR COMPARTMENT
AMENITY 01	65	65
AMENITY 02	65	65



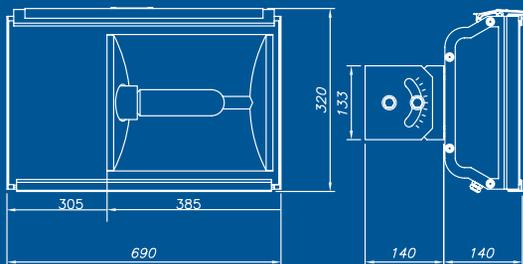
# AMENITY SERIES



Amenity 01



Amenity 03



Amenity 02

## Application

Amenity luminaire is specially designed as an ideal solution for tunnels & under carriage lighting.

## Construction Features

### Construction:

#### Body:

The body is made of extruded aluminum alloy and pressure die-cast aluminum, formed in a rigid rectangular shape.

#### Glass frame:

It is made of extruded aluminum alloy. The frame is hinged to the body at one side and the other side is one full sized extruded aluminum catch holder.

A high quality silicon rubber gasket is provided around the frame to make this enclosure totally protected against water and dust.

### Reflector:

It is made of pre anodized very high pure aluminum alloy in a hammered finish for wide beam and symmetrical light distribution.

### Voltage system:

220/ 230/ 240V

50-60 Hz

Other voltages are available on request.

### Electrical Class:

Class – I



[www.al-babtain.com.sa](http://www.al-babtain.com.sa)



البابطين للطاقة و الاتصالات  
AL-BABTAIN POWER & TELECOM

# ILLUMINATING EVERY NICHE



## BAHA



البابطين للطاقة و الاتصالات  
AL-BABTAIN POWER & TELECOM

# BAHA

Our commitment to industry standards results in granting Baha Lighting with the CE mark. Baha's optimization for short heights and small voltage helps it to be always used for urban lighting.

## Application

BAHA street light luminaire is suitable for illuminating service roads, secondary roads having low-density traffic, residential roads, car parks, access and minor roads.

Note: Optionally the luminaire can be supplied with a photoelectric control on request as per the required specification.

## Construction Features

### **Construction:**

#### **Body & frame:**

The body and the glass frame are made of die-cast aluminum alloy LM2 finished in electrostatic powder coating. The body consists of two separate parts for optical and control gear compartment.

#### **Reflector:**

A one-piece specular type of reflector is used separately which is made of a very high purity aluminum alloy. It is chemically polished, anodized and sealed.

#### **Voltage system:**

220/ 230/ 240V

50-60 Hz

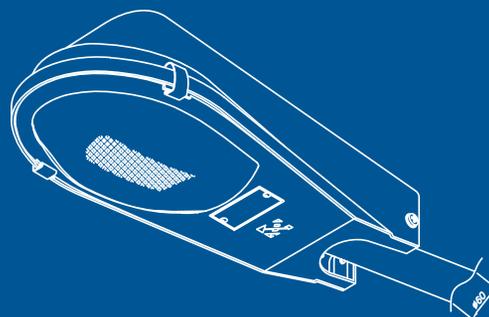
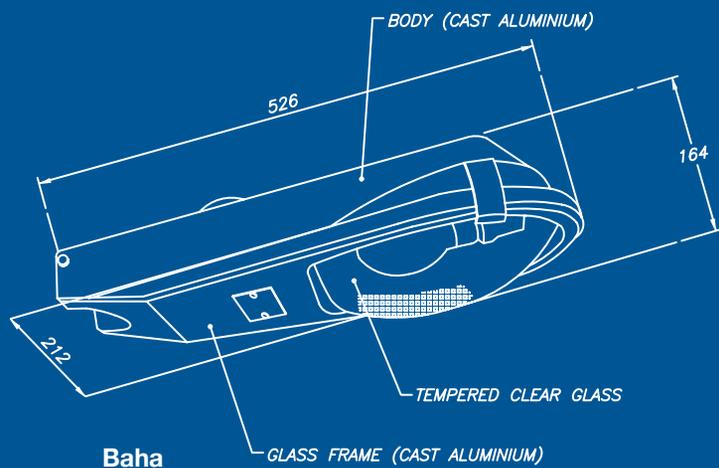
Other voltages are available on request.

#### **Electrical Class:**

Class – I



# BAHA



Side Entry Up to Ø60

## Technical Data Chart

		Lamp			Weight	Windage Area
HPM	HPS	MH			KG	
125W	-	-	X		4.9	0.062 M <sup>2</sup>
80W	-	-	X		4.9	
-	70W	70W	X		4.8	
-	-	100W	X		5.3	
-	100W	-	X		5.3	
-	110W		X		5.3	

## IP Chart

LUMINAIRE	IP	
	OPTICAL COMPARTMENT	CONTROL GEAR COMPARTMENT
Baha	65	23 (Optional 54)



[www.al-babtain.com.sa](http://www.al-babtain.com.sa)



البابطين للطاقة و الاتصالات  
AL-BABTAIN POWER & TELECOM

# ILLUMINATING EVERY NICHE



## CA SERIES



البابطين للطاقة و الاتصالات  
AL-BABTAIN POWER & TELECOM

# CA SERIES

Offering a high level of performance is one of the reasons for the great demanding power of the CA-series. The wide spread of light can reduce the number of light used, thus having an economical effect. Also its unique box design preserves its essence, which is favored by many people.

## Application

CA series street light luminaire is suitable for illumination of city centers, motorways intersections, flyovers, commercial complexes and major roads.

## Construction Features

### **Construction:**

#### **Body:**

It is made of extruded aluminum and aluminum sheets, and is formed rigid as per the design obligations. This ensures impact resistance and strength to withstand environment conditions, fundamental benefits and easy maintenance.

#### **Glass frame:**

It is made of pressure die-cast aluminum, finished in electrostatic powder coating, which is hinged to the body.

#### **Mounting fixture:**

The luminaire is equipped with a sturdy aluminum alloy LM2 die cast-mounting fixture suitable for Ø60 arm brackets to withstand applied loads or winds without any defects.

#### **Optical system:**

##### **Reflector:**

The optical of CA 5005Z includes 2 sets of a very high purity pre anodized reflectors of multi facets. And the optical system of CA 5002 one-piece specular type reflector is made of a very high purity aluminum alloy, chemically polished, anodized and sealed.

#### **Voltage system:**

220/ 230/ 240V

50-60 Hz

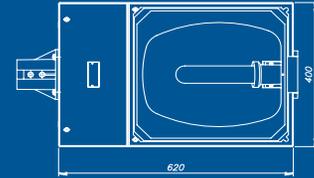
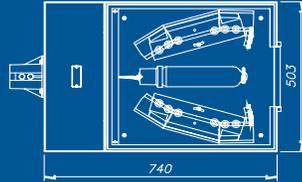
Other voltages are available on request.

#### **Electrical Class:**

Class – I



# CA SERIES



**CA 5005Z**



**CA 5002**

## Technical Data Chart

Luminaire Type	Lamp					Weight	Windage Area
	HPM	HPS	MH			KG	
CA 5005Z	-	1000W	-		X	29.30	1.85 M <sup>2</sup>
	-	-	1000W		X	29.30	
CA 5002	-	150W	150W	X	X	10.9	0.111 M <sup>2</sup>
	250W	-	-	X		13.0	
	-	250W	-	X	X	13.7	
	-	-	250W		X	13.7	
	-	400W	-		X	15.5	
	-	-	400W		X	15.5	

## IP Chart

LUMINAIRE	IP	
	OPTICAL COMPARTMENT	CONTROL GEAR COMPARTMENT
CA 5005Z	65	55
CA 5002	65	55



[www.al-babtain.com.sa](http://www.al-babtain.com.sa)



البابطين للطاقة و الاتصالات  
AL-BABTAIN POWER & TELECOM

# ILLUMINATING EVERY NICHE



## TRIPOLI



البابطين للطاقة و الاتصالات  
AL-BABTAIN POWER & TELECOM

# TRIPOLI

With the high performance of Tripoli, wide beam lighting technologies can deliver solid productivity returns and significant environmental benefits, cutting down the number of poles used. Being CE marked guarantees its verifiable international standards quality.

## Application

It is used for illuminating express, major, collector, local, and service roads, and more

## Construction Features

### Construction:

#### Body:

A one-piece body made by pressure die-cast aluminum alloy LM2. It is constructed based on aesthetics, economics, installation and maintenance, and finished in electrostatic powder paint.

#### Optical system:

##### Glass frame:

It is made of die-cast aluminum alloy LM2 and finished in electrostatic powder paint, which is hinged to the body.

A silicon rubber gasket is provided around this frame to protect the optical compartment from dust and water. The glass frame is fixed to the body by 2 nos. of stainless steel toggle catches.

#### Reflector:

A one-piece specular type of reflector is used separately. It is made of a very high purity aluminum alloy chemically polished, anodized and sealed.

#### Voltage system:

220/ 230/ 240V

50-60 Hz

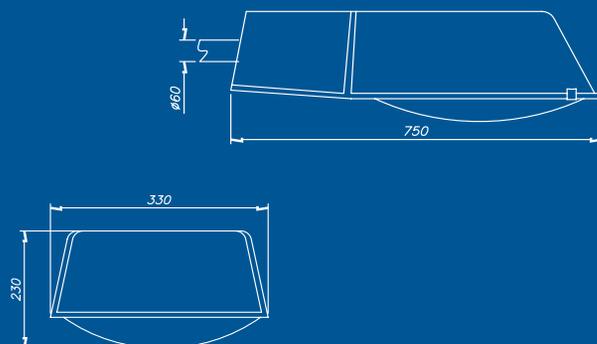
Other voltages are available on request.

#### Electrical Class:

Class – I



# TRIPOLI



## Technical Data Chart

Lamp					Weight	Windage Area
HPM	HPS	MH			KG	
400W	-	-	X		11.8	0.137 M <sup>2</sup>
-	400W	-	X	X	12.4	
-	-	400W		X	12.4	
250W	-	-	X		9.9	
-	250W	-	X	X	11.2	
-	-	250W		X	11.2	
-	150W	-	X		10.5	

## IP Chart

LUMINAIRE	IP	
	OPTICAL COMPARTMENT	CONTROL GEAR COMPARTMENT
TRIPOLI	65	65



[www.al-babtain.com.sa](http://www.al-babtain.com.sa)



البابطين للطاقة و الاتصالات  
AL-BABTAIN POWER & TELECOM

# ILLUMINATING EVERY NICHE



## ECO



البابطين للطاقة و الاتصالات  
AL-BABTAIN POWER & TELECOM

# ECO

The ECO series has a premium trend while providing a cost-effective solution to meet all the needs with its economic model.

## Application

Eco series is designed to provide the maximum luminous flux level produced by the lamp and distribute it for the highest rendering of the installation.

## Construction Features

### **Optical system:**

#### **Reflector:**

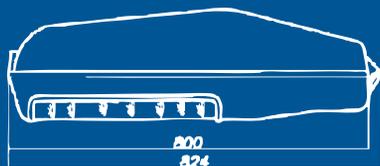
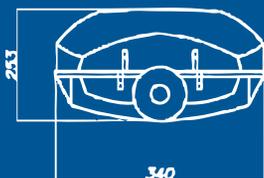
A one-piece specular reflector made of high purity aluminum alloy.

#### **Construction:**

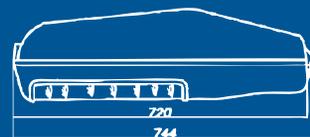
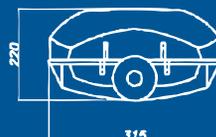
Canopy, glass frame made of die cast aluminum alloy, finished in electrostatic powder paint. A total die cast aluminum body, a die cast aluminum lamp holder adaptor and housing adjustable lamp setting to achieve better output. It has easy access to lamp from back side of the reflector without any tool, in addition to a clear plain pattern tempered curved glass diffuser.



# ECO



ECO 1



ECO 2

## Technical Data Chart

Luminaire Type	Lamp			Windage Area
	HPM	HPS	MH	
ECO 1	250W	250 - 400W	250 - 400W	0.175 M <sup>2</sup>
ECO 2	80 - 250W	70 - 250W	70 - 250W	0.128 M <sup>2</sup>

## IP Chart

LUMINAIRE	IP	
	OPTICAL COMPARTMENT	CONTROL GEAR COMPARTMENT
ECO 1	66	65
ECO 2	66	65



[www.al-babtain.com.sa](http://www.al-babtain.com.sa)



البابطين للطاقة و الاتصالات  
AL-BABTAIN POWER & TELECOM

# ILLUMINATING EVERY NICHE



## UNIX



البابطين للطاقة و الاتصالات  
AL-BABTAIN POWER & TELECOM

# UNIX

The UNIX has a unique appealing design with a progressive outlook for future prospects. From a design perspective, it is enabling a compact shape, nevertheless with optimal climate / temperature conditions giving a great lead for international markets.

## Application

It is used to illuminate main roads, sub-trunk roads, commercial squares, industrial areas, freeways and other outdoor roads.

## Construction Features

### Canopy & Body:

Canopy, Glass frame and Mounting fixture are made of die-cast Aluminum alloy and finished in electro-static powder paint. The Aluminum / glass construction gives a solid expression to the design of the lantern.

### Reflector:

A one piece reflector is used separately, a multi-faceted specular type reflector gives a wide beam light distribution made of very high purity Aluminum alloy chemically polished, anodized and sealed.

Fine adjustment of the lamp in both the horizontal and vertical planes gives precise beam control to meet all design configurations.

### Refractor:

The refractor for the optical compartment is made of tempered clear glass bowl lens. It has been fitted with the reflector by a special profile of high quality silicon rubber gasket ensuring the high standard of IP66 to give complete protection from dust & water ingress.

An E-40 spring loaded heavy duty porcelain lamp holder is provided to ensure firm contact with lamp base. Self unscrew of the lamp under vibration is not possible due to the spring lock provided in the lamp holder.

“UNIX” Luminaire can be supplied with an integral control gear or remote type. Integral control gear is separated from optical compartment consisting of ballast, igniter, capacitor, terminal block etc.

### Mounting Method:

Side mounting.

Top mounting.

### Voltage System:

220V/60Hz.

220 / 230 / 240V/50 Hz.

Other voltages are available on request.

### Ingress Protection:

Optical compartment: IP-66

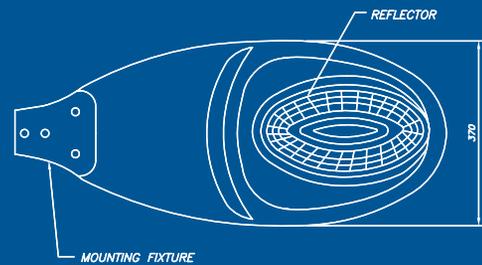
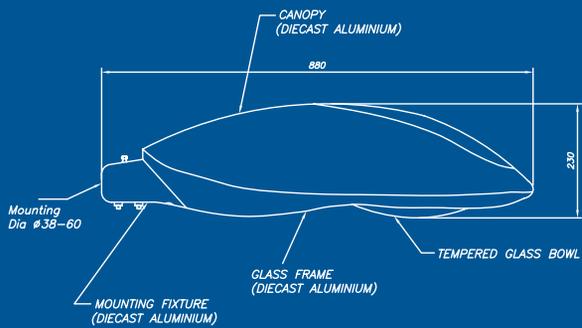
Control gear compartment: IP-66

### Electrical Class:

Class-1



# UNIX



## Technical Data Chart

Lamp			Weight	Windage Area
HPSV	MH		Kgs	
150W	-	X	11.3	0.146 M <sup>2</sup>
-	150W	X	11.3	
250W	-	X	12.5	
-	250W	X	12.5	
400W	-	X	13.5	
-	400W	X	13.5	



[www.al-babtain.com.sa](http://www.al-babtain.com.sa)



البابطين للطاقة و الاتصالات  
AL-BABTAIN POWER & TELECOM