



FIT IT - FORGET IT

INDUCTION LIGHTING SYSTEM

 **BAJAJ LUMINAIRES**
Making the difference



Fit it. Forget it.



 **BAJAJ** INDUCTION LIGHTING

Introduction

The introduction of Induction Lamps, an electrodeless fluorescent lamp is a revolutionary breakthrough in lighting and is based on the combination of two well known principles of electromagnetic induction and gas discharge resulting in a longer lamp life and practically maintenance free luminaire with substantial savings in energy cost. The electronic driver used in the luminaire ensures efficient lamp working in terms of operation and improved quality of illumination.

BENEFITS OF INDUCTION LIGHTING SYSTEM

Lamp with longest life - 100,000 burning hours

Filamentless lamp ensures operational life of almost 25 years (at 10 hours a day).

Zero maintenance lamp

No relamping required for years, making it ideally suitable for installations at inaccessible locations.

Energy efficient lighting

Lower power consumption in electronic driver reduces total system wattage and high lamp efficacy ensures High Energy savings.

Instant ON/Instant Re-strike

Ideal choice for locations with 24x7 public presence like railway stations, airports, retail malls, roads with continuous traffic.

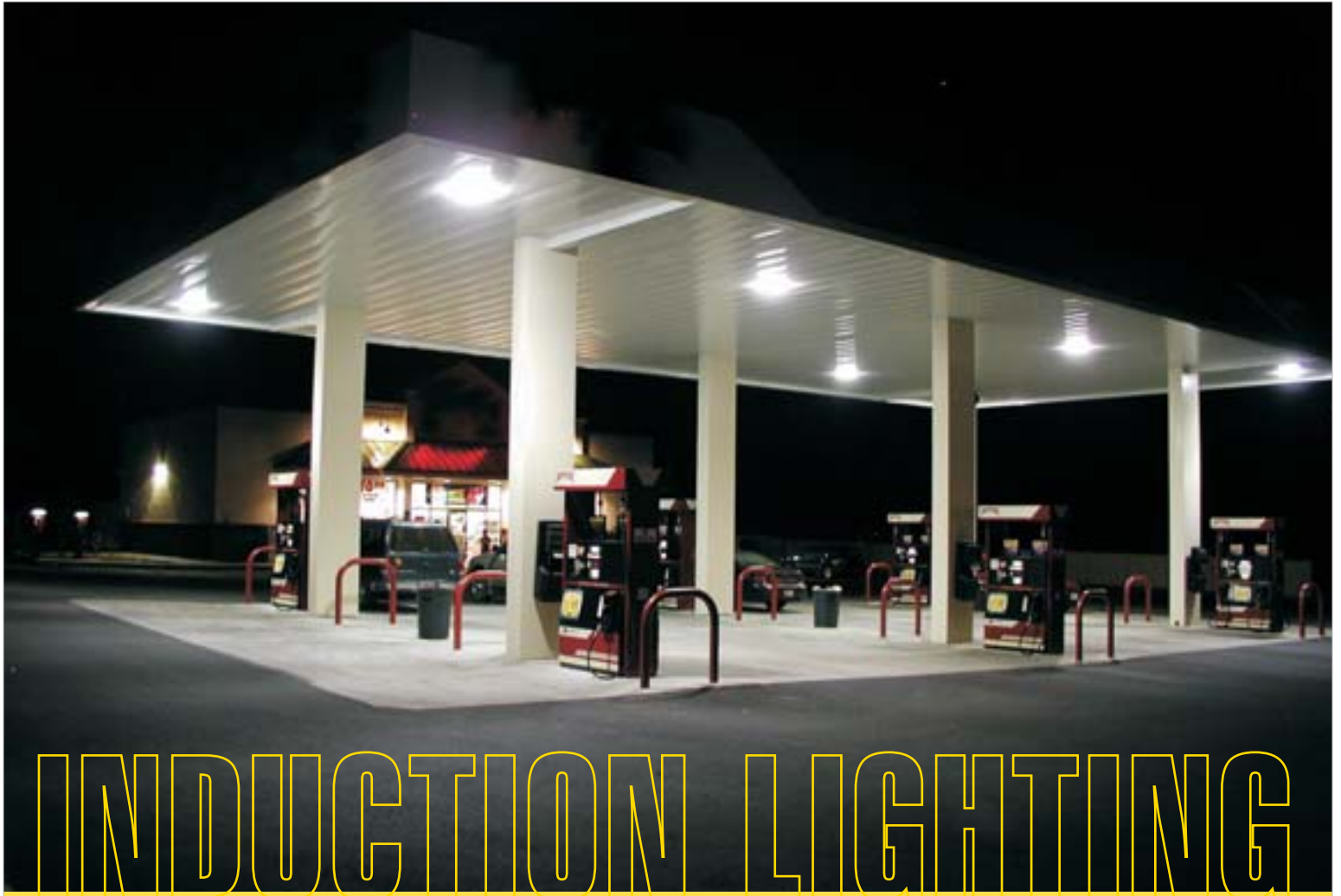
Vibration proof lamp design

It can operate in areas prone to vibrations - tunnels, railway yards, ports, airports.

Operates in harshest environment

Effectively operates in temperatures ranging from: -30^o C to +50^o C.





INDUCTION LIGHTING

Fit it. Forget it.

SALIENT FEATURES

- High power factor - > 0.95
- Low harmonic content
- Constant power output
- Flicker free light
- Excellent CRI - 90
- Better light distribution
- Wide range of voltage suitability

APPLICATIONS

- **Installations at very high elevations** - Large domes, Big hall ceilings, Public halls, Retail malls.
- **Difficult to access** - Sensitive public places, High security zones, Tall bridges, Towers (non highmast), Near airport runways.
- Areas exposed to **Sub zero temperatures** for a long time. Outdoor lighting in low temperature zones.
- **Installations prone to Vibrations** – Tunnels, subways, bridges, industry shop floor.
- **High frequency traffic areas** – Fly overs, 24x 7 public places – railway stations, airport concourse.

HOW INDUCTION LAMP WORKS

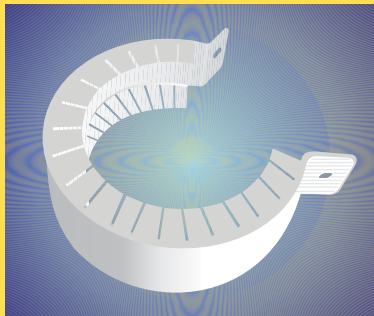
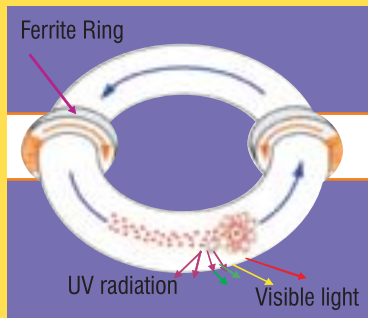
The induction lighting system comprises of induction lamp, electronic driver & luminaire housing

Induction lamp has two components:

- **Vacuum sealed glass shell**

With Inert gas atmosphere and Very low amount of mercury .

- **Ferrite core rings with coil**



Electronic ballast generates high frequency electro magnetic Field in the magnetic ferrite ring coils.

These rings create an electromagnetic field inside the lamp's glass tube (which is totally sealed).

This field goes around the glass filled tube. Electrons discharged by the magnetic coils through electromagnetic induction collide with mercury atoms inside the tube and become excited.

These electrons give off energy in the form of invisible UV light. The conversion to visible light occurs when it passes through a phosphor coating on the inside surface of the tube.

INDUCTION LIGHTING

Integral Floodlight Luminaire



BJFL 80 IL

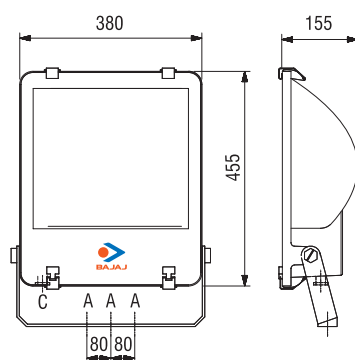
Symmetrical beam, integral floodlight luminaire for induction lamp

Specification

- Epoxy black powder coated, die-cast aluminium housing with control gear accessories for 80W Induction lamp.
- Electrochemically brightened, anodised aluminium reflector.
- Heat resistant, clear toughened glass cover secured to the housing by self locking toggles and synthetic rubber gasket.
- Black powder coated MS mounting bracket with aiming facility.
- Degree of protection : IP 65

Applications

- Airport aprons
- Railway marshalling yards
- Buildings and monuments
- Container berths
- Sports lighting
- Hoardings and Sign boards, etc.



A= 15 mm DIA HOLES FOR MTG. -3 Nos.
C= CABLE GLAND

Electrical Data

Product Code	Cat. Ref.	Lamp Type & Wattage (W)	Nominal Voltage (V)	Mains Current in Amps. at 240 V	Power Factor
162655+140159	BJFL 80 IL	IL 80	240	0.42	0.98

Canopy Lighting Luminaire



BJPP 40 IL

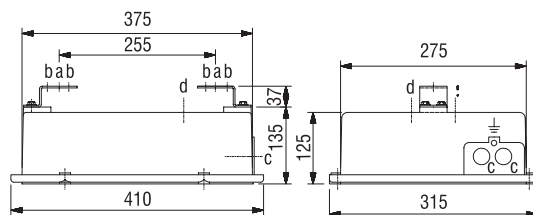
Integral, canopy lighting luminaire for induction lamp

Specification

- Epoxy white powder coated recess mounting die-cast aluminium housing to accommodate lamp and control gear accessories.
- Electrochemically brightened, polished and anodised aluminium reflector assembly.
- Heat resistant toughened clear glass with silicon rubber gasket held in a die-cast aluminium frame and fixed by four SS screws.
- Control gear suitable for 40W induction lamp, lamp prewired upto the terminal block.
- This luminaire is suitable for 150 mm panel ceiling.
- Degree of protection : IP 65 (From front glass)

Applications

- Petrol pumps
- Porticos
- Public halls
- Under canopy lighting
- Corridors with false ceilings, etc.



a-2 Nos. 19 mm holes for mtg
b-4 Nos. 8 mm dia holes for mtg
c-2 Nos. 19 mm ET cable gland
c=2 Nos. Breating holes

Electrical Data

Product Code	Cat. Ref.	Lamp Type & Wattage (W)	Nominal Voltage (V)	Mains Current in Amps. at 240 V	Power Factor
162657+140158	BJPP 40 IL	IL 40	240	0.23	0.98

INDUCTION LIGHTING

Industrial Lighting



BJRLB 40 IL

Lowbay, integral, horizontal ceiling mounted luminaire for induction lamp

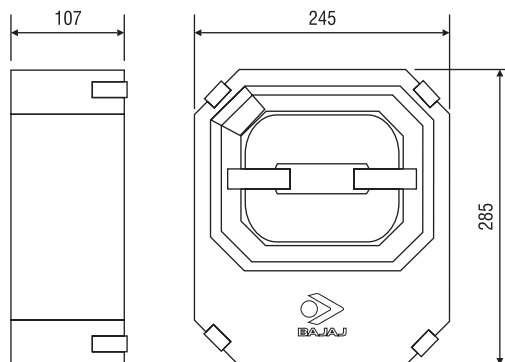
Specification

- Epoxy white powder coated CRCA sheet steel housing.
- Anodised aluminium reflector assembly.
- Heat resistant, toughened clear glass, synthetic rubber gasket fixed to the housing with toggles.
- Control gear for 40W induction lamp.
- Degree of protection: IP 54

Note: recommended mounting height: 4 to 6 meters

Applications

- Industrial bays
- Warehouses
- Railway platforms
- Constructed tunnels
- Circulation areas
- Corridors, etc.



Electrical Data

Product Code	Cat. Ref.	Lamp Type & Wattage (W)	Nominal Voltage (V)	Mains Current in Amps. at 240 V	Power Factor
162656+140158	BJRLB 40 IL	IL 40	240	0.23	0.98

Industrial Lighting



BJRMB 80 IL

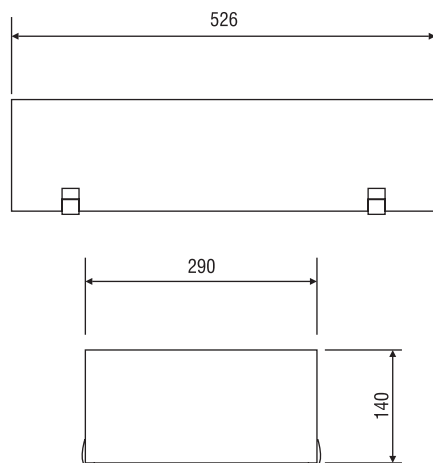
Mediumbay, integral, horizontal ceiling mounted luminaire for induction lamp

Specification

- Epoxy white powder coated CRCA sheet steel housing.
- Anodised aluminium reflector assembly.
- Heat resistant, toughened clear glass, synthetic rubber gasket fixed to the housing with toggles.
- Control gear for 80W induction lamp.
- Degree of protection: IP 54

Applications

- Industrial bays
- Warehouses
- Railway platforms
- Constructed tunnels
- Circulation areas, etc.



Electrical Data

Product Code	Cat. Ref.	Lamp Type & Wattage (W)	Nominal Voltage (V)	Mains Current in Amps. at 240 V	Power Factor
168791+140159	BJRMB 80 IL	IL 80	240	0.42	0.98

INDUCTION LIGHTING

Retail Lighting



BLRI 23/40 RF IL

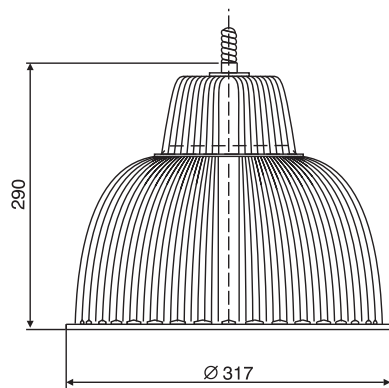
Suspended type decorative highbay luminaire with acrylic refractor

Specification

- Decorative non-integral housing.
- Fluted polycarbonate refractor.
- Aesthetically appealing to suit any interior.
- Suitable for 23W/40W retrofit induction lamp.
- Lamp holder prewired upto terminal block.
- Spiral power cable is provided for luminaire suspension.
- Ease of maintenance.
- Option of polycarbonate refractor cover is also available.

Applications

- Commercial malls
- Warehouses
- Atrium
- Reception areas, etc.



Electrical Data

Product Code	Cat. Ref.	Lamp Type & Wattage (W)	Nominal Voltage (V)	Mains Current in Amps. at 240 V
162658+162615+162629	BLRI 23 RF IL	1 x 23W RF IL	240	0.18
	BLRI 40 RF IL	1 x 40W RF IL	240	0.2

Retail & Industrial Lighting



BLRI 200 IL

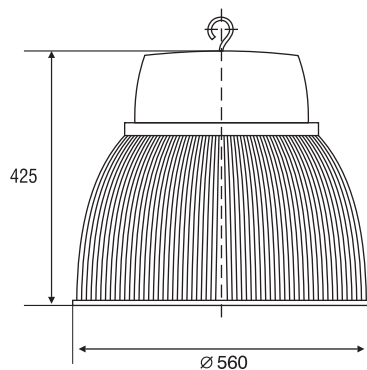
Suspended type decorative highbay luminaire with polycarbonate refractor

Specification

- Decorative integral spun aluminium housing.
- Fluted polycarbonate refractor.
- Aesthetically appealing to suit any interior.
- Suitable for 200W Induction lamp.
- Lamp holder prewired upto terminal block.
- Ease of maintenance.

Applications

- Commercial malls
- Atrium
- Warehouses, etc.



Electrical Data

Product code	Cat. Ref.	Lamp Type & Wattage (W)	Nominal Voltage (V)	Mains Current in Amps. at 240 V	Power Factor
162725+140162	BLRI 200 IL	1 X 200W IL	240	1.06	0.98

INDUCTION LIGHTING

Retail & Industrial Lighting



BJMBI 40 RF IL FC

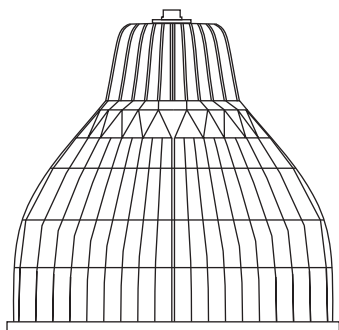
Suspended type decorative mediumbay luminaire with faceted reflector

Specification

- Suitable for 40W retrofit induction lamp.
- Faceted reflector is made from aluminium electrochemically brightened & anodised.
- Aesthetically appealing to suit any interior.
- E40 lamp holder prewired upto terminal block.
- Eye bolt & antivibration rubber pad are provided for suspension mounting.
- Ease of maintenance.

Applications

- Airport hangers and warehouses
- Heavy engineering industries
- Thermal power stations
- Railway concourse halls
- Steel plants
- Shopping malls, Departmental stores, Food plaza, etc.



Electrical Data

Product Code	Cat. Ref.	Lamp Type & Wattage (W)	Nominal Voltage (V)	Mains Current in Amps. at 240 V
-	BJMBI 40 RF IL FC	1 x 40W RF IL	240	0.2

Tunnel Lighting



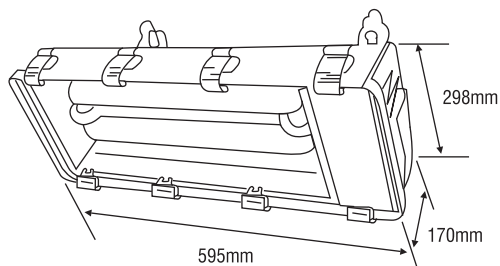
Integral, horizontal ceiling mounted luminaire for tunnel lighting

Specification

- Extruded aluminum housing and die-cast end plates, textured architectural powdercoat finish over a chromate conversion coating
- Specular aluminum reflector with tempered clear fat glass lens with clips
- Mount on pipe, wall or ceiling with adjustable brackets or pole mount with slitler
- Suitable for 150W induction lamp

Applications

- Airport hangers and warehouses
- Heavy engineering industries
- Thermal power stations
- Railway concourse halls
- Underbridges
- Tunnels
- Mines, etc.



Electrical Data

Lamp Type & Wattage (W)	Nominal Voltage (V)	Mains Current in Amps. at 240 V
IL 150W	220	0.2

INDUCTION LIGHTING

Area Lighting



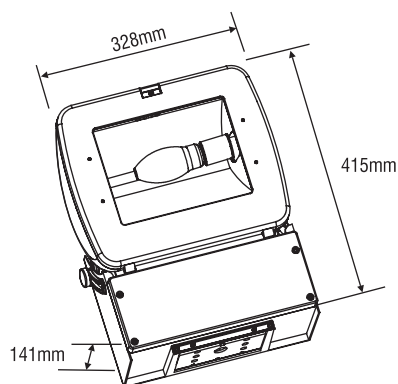
Small adjustable area/wall light with flood reflector

Specification

- Die-cast housing, front frame and ballast box with powdercoat finish over a chromate conversion coating. Housing swivels from 0° to 30°, and includes angle indicators at adjustment points
- Aluminum flood reflector with tempered glass lens
- Easy-Hang wall bracket included allows one person mounting. Optional pole mount brackets for one to four fixtures.
- Suitable for 40W induction lamp.
- IP65

Applications

- Sports areas
- Dock and ports
- Airport Concourses, etc.
- Building and monuments
- Industrial areas



Electrical Data

Lamp Type & Wattage (W)	Nominal Voltage (V)	Mains Current in Amps. at 240 V	Power Factor
IL 40	220	0.42	0.98

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