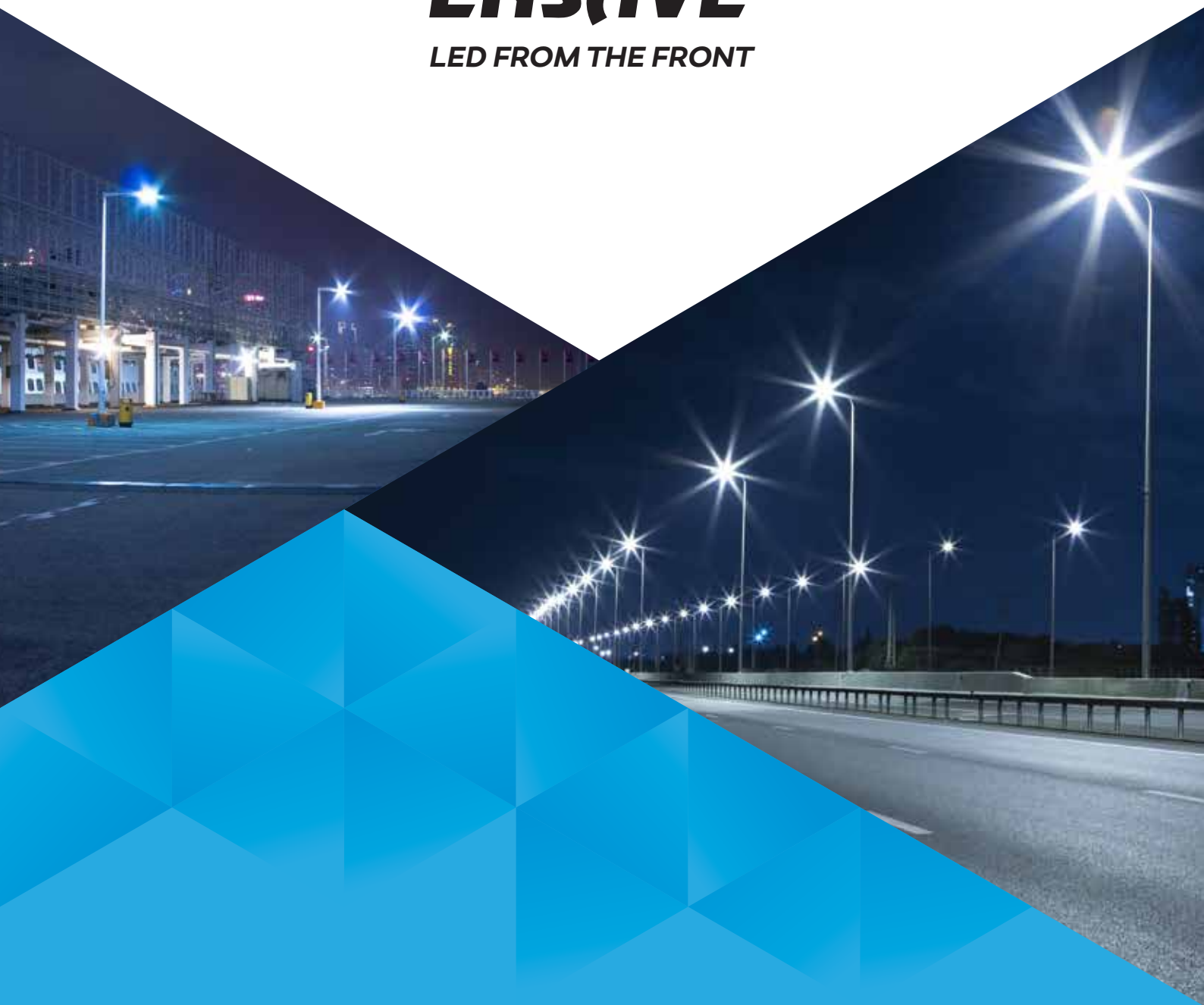




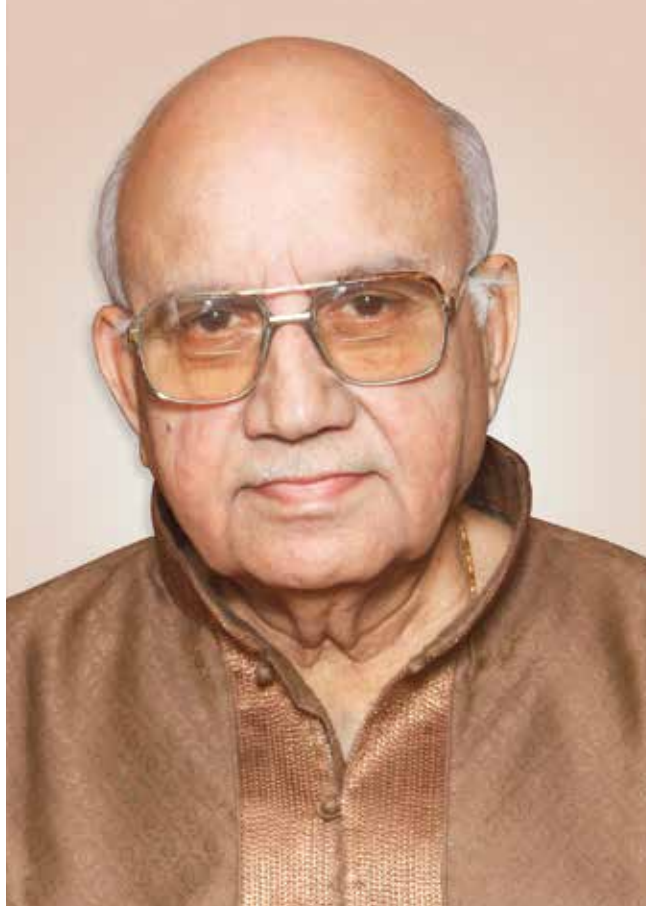
ENSAVE

LED FROM THE FRONT



STREET LIGHTING

L E D P R O D U C T R A N G E



Late. Shri G. Arvind Rao



Founder

Evergreen Group of Companies

ENSAVE



ENSAVE, a brand of the Evergreen Group of companies, has been a leading LED luminaire manufacturer in India for over 50 years and engaged in lighting solutions for the complete urban space and beyond. Futuristic, energy-efficient and custom-built LED lighting products are our hallmark across various applications such as offices, industrial, street lighting, large stadium lighting for sports and outdoor landscape lighting. We also, are one of the major lighting partners for the Indian Railways with our coach lighting, LED head lighting, and fog lighting applications.

ENSAVE, represents the simplest and most reliable path to customised and sustainable lighting solutions. All our products are designed to actually deliver to you our brand promise — **LED FROM THE FRONT!**

ENSAVE is poised to meet the high standards of its customers for high quality and reliable LED lighting products and is in a position to meet customers' needs, small and big.





STREET LIGHTING

ATRIA 11

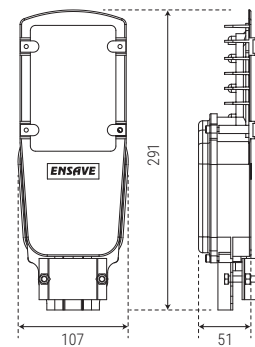
LED Streetlight

12W/15W/18W/
20W/25W/30W/36W/45W



Cute streetlight, comprising of pressure die cast aluminium, powder coated housing, with a toughened glass. Also available, with IP polycarbonate lense plate. Also available in CCT of 3000K and 4000K on request.

Dimensional Drawing



MOUNTING:
Suitable for min. Ø30mm to max Ø40mm mounting pipe

Applications



Access
Roads



Traffic
Routes

Electrical Specifications

	AC Wattage	Input Voltage (V)	Frequency (Hz)	Operating Voltage Range (V)	Current (A) @ 240V	Power Factor	Driver Efficiency	Surge Protection
ATRIA 11-12W(57)GL	12W ± 10%	240	50	120 - 277V AC	0.045 - 0.055	≥ 0.95	> 85%	10 KV
ATRIA 11-15W(57)GL	15W ± 10%	240	50	120 - 277V AC	0.056 - 0.068	≥ 0.95	> 85%	10 KV
ATRIA 11-18W(57)GL	18W ± 10%	240	50	120 - 277V AC	0.067 - 0.082	≥ 0.95	> 85%	10 KV
ATRIA 11-20W(57)GL	20W ± 10%	240	50	120 - 277V AC	0.075 - 0.091	≥ 0.95	> 85%	10 KV
ATRIA 11-25W(57)GL	25W ± 10%	240	50	120 - 277V AC	0.093 - 0.114	≥ 0.95	> 85%	10 KV
ATRIA 11-30W(57)GL	30W ± 10%	240	50	120 - 277V AC	0.112 - 0.137	≥ 0.95	> 85%	10 KV
ATRIA 11-36W(57)GL	36W ± 10%	240	50	120 - 277V AC	0.135 - 0.165	≥ 0.95	> 85%	10 KV
ATRIA 11-45W(57)GL	45W ± 10%	240	50	120 - 277V AC	0.168 - 0.206	≥ 0.95	> 85%	10 KV

System Efficacy Available: 110, 120, 130

Driver: Constant current / over voltage / under voltage and 440V protection

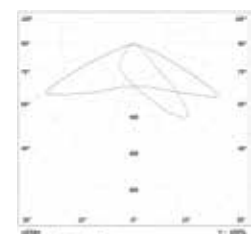
Product Weight: 1.00 Kg approx.

In case Fittings are required in Lense Plate Version, kindly change GL to LP in Cat Ref.

Optical Parameters

CRI	≥ 70
Ingress Protection	IP 66
Operating Temperature	(-)10°C to (+)50°C
Colour Temperature	5700 K (Typical)
Beam Angle	Secondary Lenses for Streetlight Application
External Surge	10KV-5KA

Polar Diagram



ATRIA 21

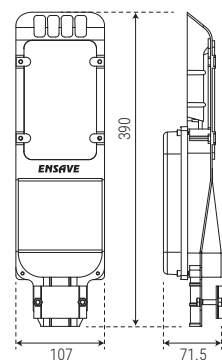
LED Streetlight

45W/50W/60W/70W



This sleek streetlight, comprises of pressure die cast aluminium, powder coated housing, with a toughened glass. Also available, with IP polycarbonate lense plate. Also available in CCT of 3000K and 4000K on request.

Dimensional Drawing



MOUNTING:

Suitable for min. Ø30mm to max Ø40mm mounting pipe

Applications



Access
Roads



Traffic
Routes

Electrical Specifications

	AC Wattage	Input Voltage (V)	Frequency (Hz)	Operating Voltage Range (V)	Current (A) @ 240V	Power Factor	Driver Efficiency	Surge Protection
ATRIA 21-45W(57)GL	45W $\pm$ 10%	240	50	120 - 277V AC	0.168 - 0.206	$\geq$ 0.95	> 85%	10 KV
ATRIA 21-50W(57)GL	50W $\pm$ 10%	240	50	120 - 277V AC	0.187 - 0.229	$\geq$ 0.95	> 85%	10 KV
ATRIA 21-60W(57)GL	60W $\pm$ 10%	240	50	120 - 277V AC	0.225 - 0.275	$\geq$ 0.95	> 85%	10 KV
ATRIA 21-70W(57)GL	70W $\pm$ 10%	240	50	120 - 277V AC	0.262 - 0.320	$\geq$ 0.95	> 85%	10 KV

System Efficacy Available: 110, 120, 130

Driver: Constant current / over voltage / under voltage and 440V protection

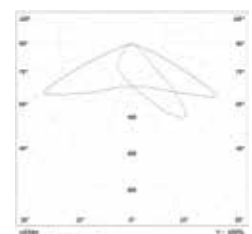
Product Weight: 1.70 Kg approx.

In case Fittings are required in Lense Plate Version, kindly change GL to LP in Cat Ref.

Optical Parameters

CRI	$\geq$ 70
Ingress Protection	IP 66
Operating Temperature	(-)10°C to (+)50°C
Colour Temperature	5700 K (Typical)
Beam Angle	Secondary Lenses for Streetlight Application
External Surge	10KV-5KA

Polar Diagram



ATRIA 31

LED Streetlight

90W/100W/110W



This streetlight, comprises of pressure die cast aluminium, powder coated housing, with a toughened glass. Also available in CCT of 3000K and 4000K on request.



Applications

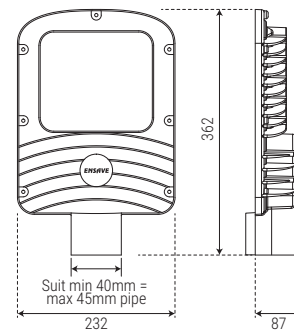


Access
Roads



Traffic
Routes

Dimensional Drawing



MOUNTING:

Suitable for min. Ø50mm to max Ø60mm mounting pipe

Electrical Specifications

	AC Wattage	Input Voltage (V)	Frequency (Hz)	Operating Voltage Range (V)	Current (A) @ 240V	Power Factor	Driver Efficiency	Surge Protection
ATRIA 31-90W(57)GL	90W $\pm$ 10%	240	50	120 - 277V AC	0.337 - 0.412	$\geq$ 0.95	> 85%	10 KV
ATRIA 31-100W(57)GL	100W $\pm$ 10%	240	50	120 - 277V AC	0.375 - 0.458	$\geq$ 0.95	> 85%	10 KV
ATRIA 31-110W(57)GL	110W $\pm$ 10%	240	50	120 - 277V AC	0.412 - 0.504	$\geq$ 0.95	> 85%	10 KV

System Efficacy Available: 110, 120, 130

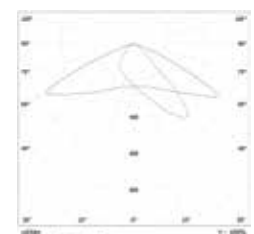
Driver: Constant current / over voltage / under voltage and 440V protection

Product Weight: 4.50 Kg approx.

Optical Parameters

CRI	$\geq$ 70
Ingress Protection	IP 66
Operating Temperature	(-)10°C to (+)50°C
Colour Temperature	5700 K (Typical)
Beam Angle	Secondary Lenses for Streetlight Application
External Surge	10KV-5KA

Polar Diagram



ATRIA 32

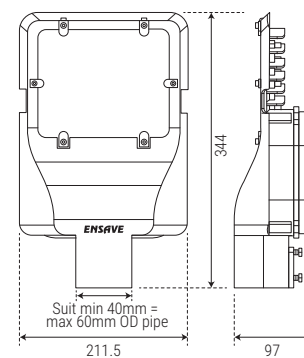
LED Streetlight

45W/65W/90W/100W



A compact street light, comprising of pressure die cast aluminium, powder coated housing, with a toughened glass. Also available, with ip polycarbonate lense plate. Has a hatchback driver compartment. Available in CCT of 3000K and 4000K on request.

Dimensional Drawing



MOUNTING:

Suitable for min. Ø40mm to max Ø60mm mounting pipe

Applications



Access
Roads



Traffic
Routes

Electrical Specifications

	AC Wattage	Input Voltage (V)	Frequency (Hz)	Operating Voltage Range (V)	Current (A) @ 240V	Power Factor	Driver Efficiency	Surge Protection
ATRIA 32-45W(57)GL	45W $\pm$ 10%	240	50	120 - 277V AC	0.168 - 0.206	$\geq$ 0.95	> 85%	10 KV
ATRIA 32-65W(57)GL	65W $\pm$ 10%	240	50	120 - 277V AC	0.243 - 0.297	$\geq$ 0.95	> 85%	10 KV
ATRIA 32-90W(57)GL	90W $\pm$ 10%	240	50	120 - 277V AC	0.337 - 0.412	$\geq$ 0.95	> 85%	10 KV
ATRIA 32-100W(57)GL	100W $\pm$ 10%	240	50	120 - 277V AC	0.375 - 0.458	$\geq$ 0.95	> 85%	10 KV

System Efficacy Available: 110, 120, 130

Driver: Constant current / over voltage / under voltage and 440V protection

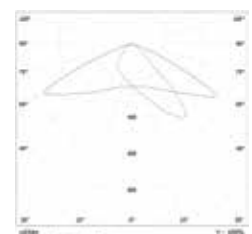
Product Weight: 3.00 Kg approx.

In case Fittings are required in Lense Plate Version, kindly change GL to LP in Cat Ref.

Optical Parameters

CRI	$\geq$ 70
Ingress Protection	IP 66
Operating Temperature	(-)10°C to (+)50°C
Colour Temperature	5700 K (Typical)
Beam Angle	Secondary Lenses for Streetlight Application
External Surge	10KV-5KA

Polar Diagram



ATRIA 41

LED Streetlight

120W/150W



This street light, comprises of pressure die cast aluminium, powder coated housing, with a toughened glass. Also available in CCT of 3000K and 4000K on request.



Applications

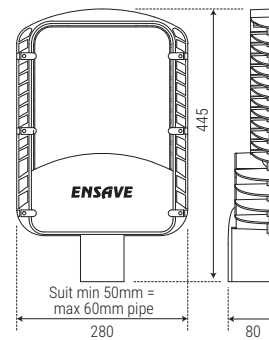


Access
Roads



Traffic
Routes

Dimensional Drawing



MOUNTING:

Suitable for min. Ø50mm to max Ø60mm mounting pipe

Electrical Specifications

	AC Wattage	Input Voltage (V)	Frequency (Hz)	Operating Voltage Range (V)	Current (A) @ 240V	Power Factor	Driver Efficiency	Surge Protection
ATRIA 41-120W(57)GL	120W $\pm$ 10%	240	50	120 - 277V AC	0.450 - 0.550	$\geq$ 0.95	> 85%	10 KV
ATRIA 41-150W(57)GL	150W $\pm$ 10%	240	50	120 - 277V AC	0.562 - 0.687	$\geq$ 0.95	> 85%	10 KV

System Efficacy Available: 110, 120, 130

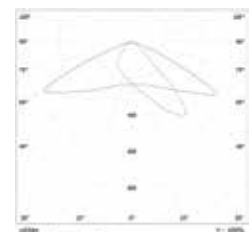
Driver: Constant current / over voltage / under voltage and 440V protection

Product Weight: 4.50 Kg approx.

Optical Parameters

CRI	$\geq$ 70
Ingress Protection	IP 66
Operating Temperature	(-)10°C to (+)50°C
Colour Temperature	5700 K (Typical)
Beam Angle	Secondary Lenses for Streetlight Application
External Surge	10KV-5KA

Polar Diagram



ATRIA 42

LED Streetlight

90W/120W/150W



Aerodynamically designed street light with a dolphin look, comprising of pressure die cast aluminium, powder coated housing, with a toughened glass. Post Top Mounting facility provided with a tilting pipe on request. Also available in CCT of 3000K and 4000K on request. Can be adopted for a SMART STREETLIGHT option.

Applications

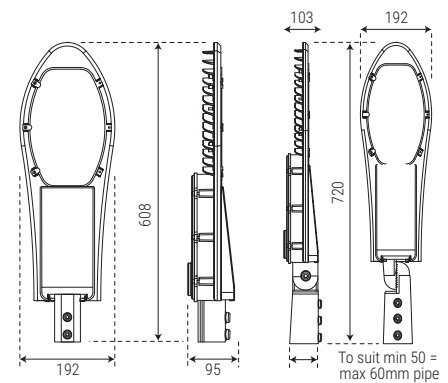


Access
Roads



Traffic
Routes

Dimensional Drawing



MOUNTING:

Optional mounting - tilting pipe suitable for min Ø40mm to max Ø50mm Mounting Pipe

Electrical Specifications

	AC Wattage	Input Voltage (V)	Frequency (Hz)	Operating Voltage Range (V)	Current (A) @ 240V	Power Factor	Driver Efficiency	Surge Protection
ATRIA 42-90W(57)GL	90W $\pm$ 10%	240	50	120 - 277V AC	0.337 - 0.412	$\geq$ 0.95	> 85%	10 KV
ATRIA 42-120W(57)GL	120W $\pm$ 10%	240	50	120 - 277V AC	0.450 - 0.550	$\geq$ 0.95	> 85%	10 KV
ATRIA 42-150W(57)GL	150W $\pm$ 10%	240	50	120 - 277V AC	0.562 - 0.687	$\geq$ 0.95	> 85%	10 KV

System Efficacy Available: 110, 120, 130

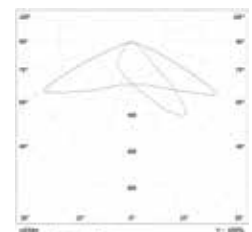
Driver: Constant current / over voltage / under voltage and 440V protection

Product Weight: 4.00 Kg approx.

Optical Parameters

CRI	$\geq$ 70
Ingress Protection	IP 66
Operating Temperature	(-)10°C to (+)50°C
Colour Temperature	5700 K (Typical)
Beam Angle	Secondary Lenses for Streetlight Application
External Surge	10KV-5KA

Polar Diagram



ATRIA 43

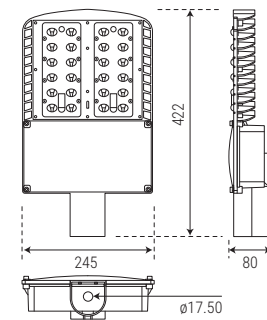
LED Streetlight

120W/150W



Street light, comprising of pressure die cast aluminium, powder coated housing. Luminaire has IP polycarbonate lense plates, with separate driver compartment. Also available in CCT of 3000K and 4000K on request.

Dimensional Drawing



MOUNTING:

Suitable for min. Ø50mm to max Ø60mm mounting pipe

Applications



Access
Roads



Traffic
Routes

Electrical Specifications

	AC Wattage	Input Voltage (V)	Frequency (Hz)	Operating Voltage Range (V)	Current (A) @ 240V	Power Factor	Driver Efficiency	Surge Protection
ATRIA 43-120W(57)LP	120W $\pm$ 10%	240	50	120 - 277V AC	0.450 - 0.550	$\geq$ 0.95	> 85%	10 KV
ATRIA 43-150W(57)LP	150W $\pm$ 10%	240	50	120 - 277V AC	0.562 - 0.687	$\geq$ 0.95	> 85%	10 KV

System Efficacy Available: 110, 120, 130

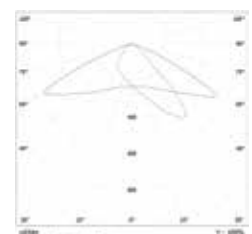
Driver: Constant current / over voltage / under voltage and 440V protection

Product Weight: 3.50 Kg approx.

Optical Parameters

CRI	$\geq$ 70
Ingress Protection	IP 66
Operating Temperature	(-)10°C to (+)50°C
Colour Temperature	5700 K (Typical)
Beam Angle	Lenses for Streetlight Application
External Surge	10KV-5KA

Polar Diagram



ATRIA 51

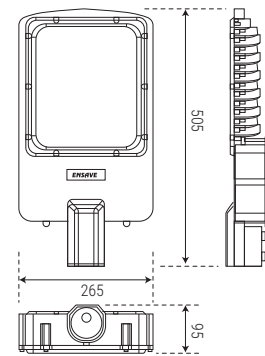
LED Streetlight

180W/200W/220W



Streetlight, for higher wattages, comprising of pressure die cast aluminium, powder coated housing, with a toughened glass. Separate driver compartment. Also available in CCT of 3000K and 4000K on request. Fitting caters well to NHAH and city's large road segment.

Dimensional Drawing



MOUNTING:

Suitable for min. Ø40mm to max Ø60mm OD pipe

Applications



Access
Roads



Traffic
Routes

Electrical Specifications

	AC Wattage	Input Voltage (V)	Frequency (Hz)	Operating Voltage Range (V)	Current (A) @ 240V	Power Factor	Driver Efficiency	Surge Protection
ATRIA 51-180W(57)GL	180W $\pm$ 10%	240	50	120 - 277V AC	0.675 - 0.825	$\geq$ 0.95	> 85%	10 KV
ATRIA 51-200W(57)GL	200W $\pm$ 10%	240	50	120 - 277V AC	0.750 - 0.916	$\geq$ 0.95	> 85%	10 KV
ATRIA 51-220W(57)GL	220W $\pm$ 10%	240	50	120 - 277V AC	0.825 - 1.008	$\geq$ 0.95	> 85%	10 KV

System Efficacy Available: 110, 120, 130

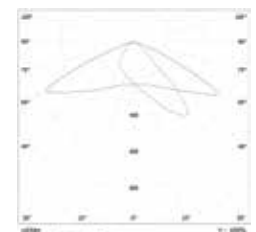
Driver: Constant current / over voltage / under voltage and 440V protection

Product Weight: 5.50 Kg approx.

Optical Parameters

CRI	$\geq$ 70
Ingress Protection	IP 66
Operating Temperature	(-)10°C to (+)50°C
Colour Temperature	5700 K (Typical)
Beam Angle	Secondary Lenses for Streetlight Application
External Surge	10KV-5KA

Polar Diagram





ATRIA 62

LED Streetlight

240W/250W/270W



Unique Street Light, comprising of pressure die cast aluminium, powder coated housing with toughened glass. Has a hatchback driver compartment. Also available in CCT of 3000K and 4000K on request.



Applications

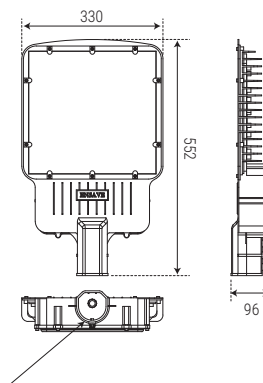


Access
Roads



Traffic
Routes

Dimensional Drawing



MOUNTING:

Suitable for min. Ø40mm to max Ø60mm mounting pipe

Electrical Specifications

	AC Wattage	Input Voltage (V)	Frequency (Hz)	Operating Voltage Range (V)	Current (A) @ 240V	Power Factor	Driver Efficiency	Surge Protection
ATRIA 62-240W(57)GL	240W $\pm$ 10%	240	50	120 - 277V AC	0.900 - 1.100	$\geq$ 0.95	> 85%	10 KV
ATRIA 62-250W(57)GL	250W $\pm$ 10%	240	50	120 - 277V AC	0.937 - 1.145	$\geq$ 0.95	> 85%	10 KV
ATRIA 62-270W(57)GL	270W $\pm$ 10%	240	50	120 - 277V AC	1.000 - 1.290	$\geq$ 0.95	> 85%	10 KV

System Efficacy Available: 110, 120, 130

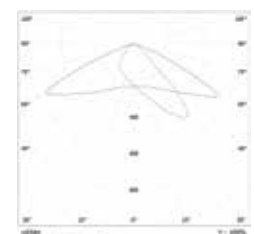
Driver: Constant current / over voltage / under voltage and 440V protection

Product Weight: 7.00 Kg approx.

Optical Parameters

CRI	$\geq$ 70
Ingress Protection	IP 66
Operating Temperature	(-)10°C to (+)50°C
Colour Temperature	5700 K (Typical)
Beam Angle	Secondary Lenses for Streetlight Application
External Surge	10KV-5KA

Polar Diagram





ENSAVE uses, the latest engineering design methodologies and manufacturing processes to ensure that all its products conform or exceed the stated product specifications.

Evergreen has state-of-the-art electronics, lighting and product evaluation labs. The group has very high level of backward integration in its manufacturing facilities including captive pressure die casting powder coating sheet metal, fabrication, electronic assemblies for LED drivers etc.



Electronics Shop Floor



Reflow Oven



IP Testing



Dust Chamber



Driver 440V Test



THB Tester



Integrating Sphere



Gonio Meter



Evergreen Engineering Co Pvt. Ltd.

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