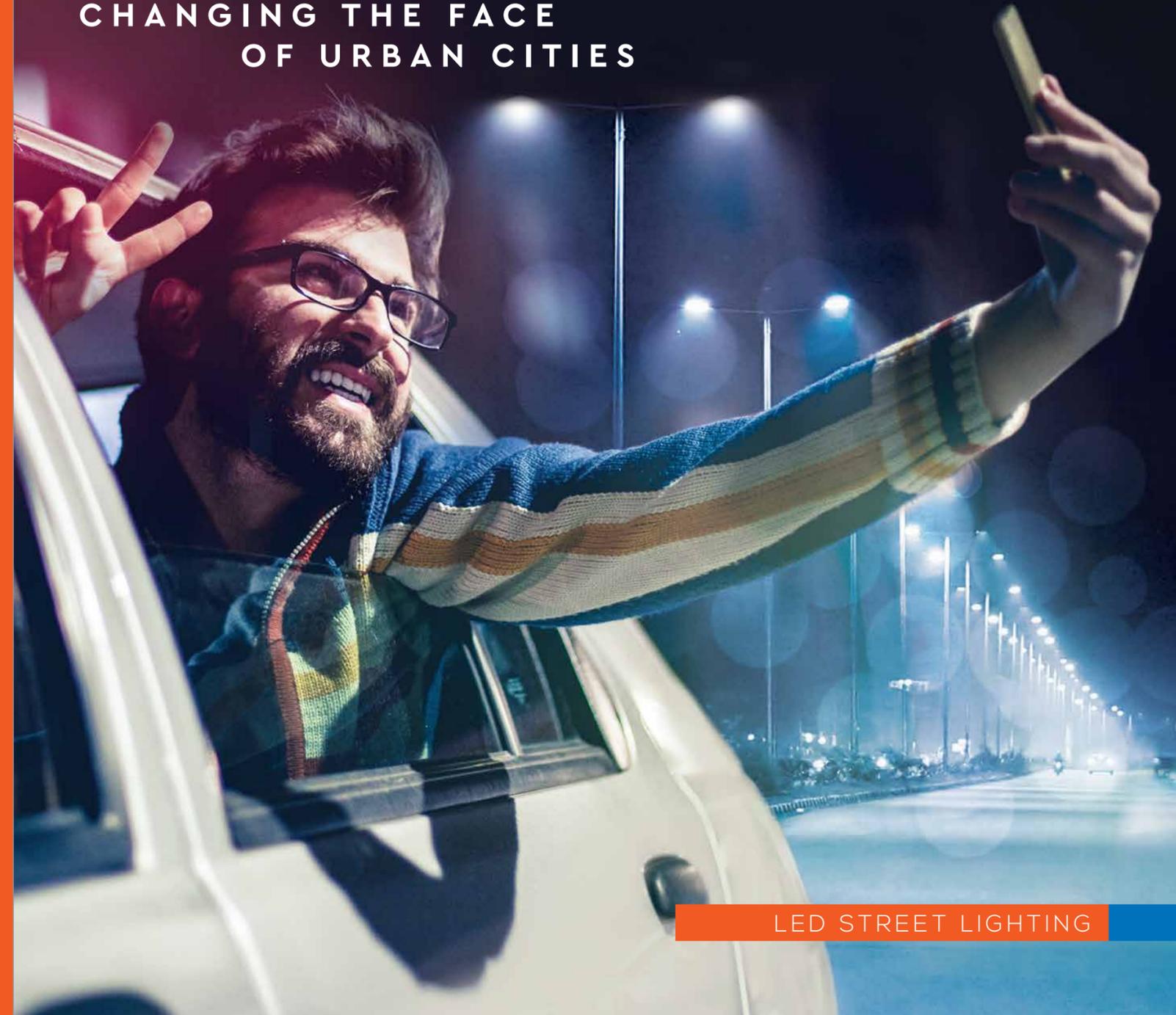




CHANGING THE FACE OF URBAN CITIES



BRANCH OFFICES

NORTH REGION

Chandigarh	Tel.: 0172-5103322
Delhi	Tel.: 011-66416100
Jaipur	Tel.: 0141-2388240
Lucknow	Tel.: 0522-4938900-30
Noida	Tel.: 0120-4040400

EAST REGION

Bhubaneswar	Tel.: 0674-2390697, 2396980, 2394052
Guwahati	Tel.: 0361-2346497, 2346498, 2346499
Kolkata	Tel.: 033-22622686
Patna	Tel.: 0612-2220155

CENTRAL REGION

Indore	Tel.: 0731-4271440/4271439
Raipur	Tel.: 0771-2263976
Nagpur	Tel.: 0712-2811206

WEST REGION

Ahmedabad	Tel.: 079-27543964, 27543967
Mumbai	Tel.: 022-22043841
Pune	Tel.: 020-26302000/26302001

SOUTH REGION

Bengaluru	Tel.: 080-46339000
Chennai	Tel.: 044-30662200
Cochin	Tel.: 0484-2391119, 2392039
Hyderabad	Tel.: 040-23442932, 23442933



LUMINAIRES BUSINESS UNIT,

601, Rustomjee Aspiree, Bhanu Shankar Yagnik Marg,
Off Eastern Express Highway, Sion (E), Mumbai 400 022.

Tel.: 022-24064400

E-mail: luminaires@bajajelectricals.com

www.bajajelectricals.com

[f/BajajElecBiz](#) [t/BajajElecBiz](#) [i/bajajelecBiz](#)

LED STREET LIGHTING

The text 'OUR SPECIAL BOND' is enclosed within a large, orange, stylized bracket shape that frames the text on the left side of the page. The text is in a bold, white, uppercase, sans-serif font.

This is not just a product brochure that displays the best street lighting solutions, available in the country. This is the story of the bond that we share with your city. A city that shines like none other.

The text 'LIGHT THAT RADIATES LIFE!' is written in a bold, white, uppercase, sans-serif font, centered in the upper right portion of the image. The background is a dark, blue-toned night sky over a cityscape.

Bajaj has installed more than 7,00,000 of LED streetlights across the country and is the undisputed leader in outdoor lighting space.

SAFE AND SUPERIOR

The city beams with pride, because of the warm glow of our LED streetlights, it makes the city seem majestic and truly special. The roads and alleyways of the city are always paved with safety and one can walk them without fear.



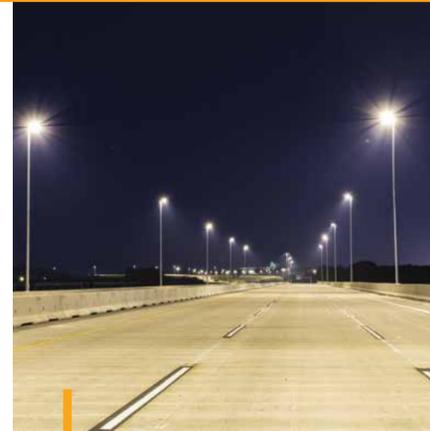
SAFETY FOR TRAFFIC

- More visibility for drivers, riders, and pedestrians
- Ensuring well-being in urban areas
- Artificially extending the hours with light so that activity can take place



SECURITY FOR CITIZENS

- Illuminated surroundings
- Feelings of safety
- Reduction in accidents
- Provide ability to orientate yourself



ENVIRONMENT FRIENDLY

- Dedicated lumen packages deliver energy savings of over 50%
- Reduction in CO₂ emissions
- Mercury free - reducing contamination

LIGHT WITHOUT POLLUTION

City the glows with warmth and a welcoming touch, it does not glare due to light pollution like so many others. Our LED streetlights minimizes glare, skyglow, clutter and light trespass, to enhance the health of residents, reduce harm to the environment and to decrease energy consumption.



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REDUCE ENERGY CONSUMPTION

- Directional light ensuring zero wastage of energy
- Directional light ensures light falling in areas where it is intended



PROTECT ECOSYSTEM & WILDLIFE

- Reducing insect swarming nuisance
- Saving life and maintaining ecological balance
- Lowering cleaning costs for development authorities



MAINTAINING CIRCADIAN RHYTHM

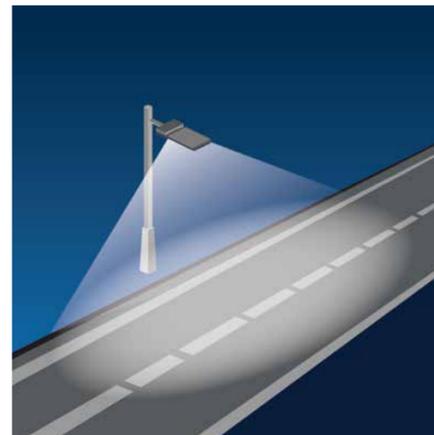
- Correct outdoor lighting ensures clear black sky thus maintaining circadian rhythm on nocturnal animals and plants.
- Reduction of ambient light levels in the sky makes the skies 'night friendly'

EFFICIENT OPTICAL CONTROL

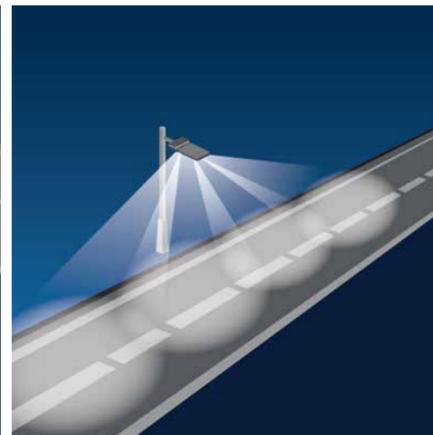
Luminosity is the light output from a lamp. A small lamp producing a lot of light results in greater brightness and consequent glare when looked at directly. LED Street Lighting on the other hand consist of multiple light producing points thus reducing glare, also with the right type of secondary optics we can get precise distribution.

Unique peanut optics with bat wing profile ensures high efficiency & light uniformity across and along the road.

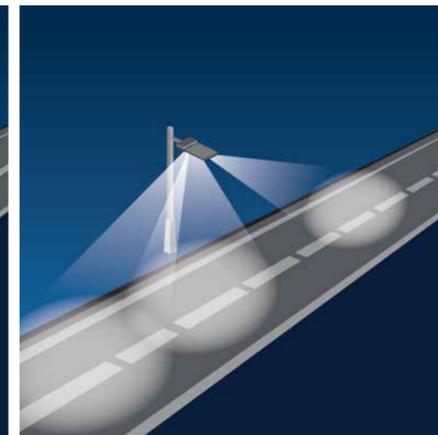
Since all the light is directed downward, there is therefore no need to use reflectors to direct light downward. The consequent loss in light output due to limitations on reflector efficiency is avoided.



Multi-layer Distribution with Peanut optics



Multiple spot with modules based LED street light offered by other Competition



Classification of roads

Street lighting recommendations for different road types and junctions

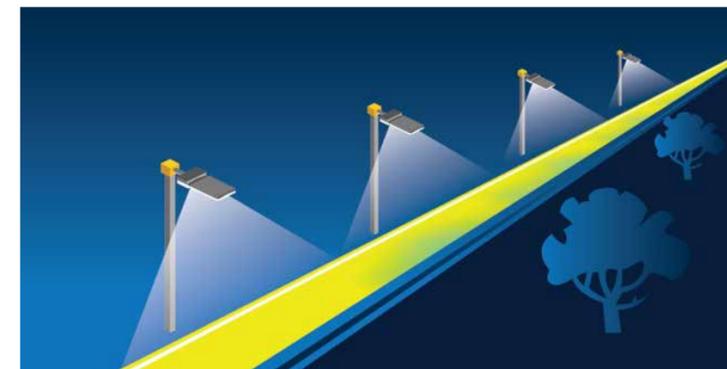
Classification of lighting installation	Type of road	Average illuminance on road surface	Uniformity Ratio (E _{min} / E _{av})	Transverse Uniformity (E _{min} / E _{max})	Junction Type	E _{av} (Lux)	E _{min} /E _{av}
Group A1	Important traffic routes carrying fast traffic	30	0.4	0.33	Key Junctions & complex flyover interchanges	50	0.4
Group A2	Other main roads carrying mixed traffic like main city streets, arterial roads and throughway roads	15	0.4	0.33	Main city junctions without any interchanges	20	0.4
Group B1	Secondary roads with considerable local traffic routes and shopping	8	0.3	0.2	Other smaller junctions	15	0.4
Group B2	Secondary roads with light traffic	4	0.3	0.2	Pedestrian crossings	50	
					Bus bays	5	

Selection of LED street light luminaires

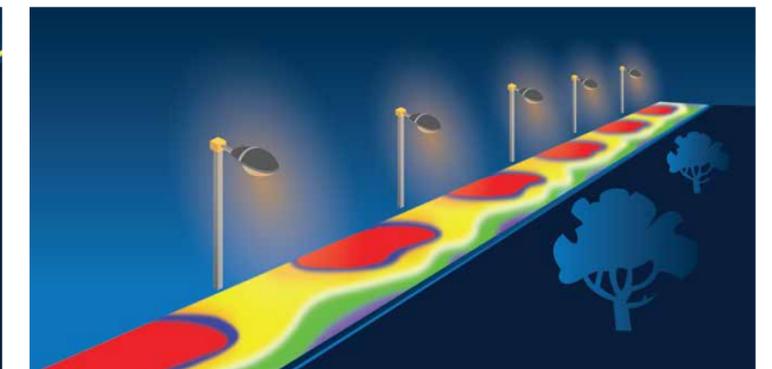
Against conventional equivalents to achieve HIGH energy savings

Road type	A1		A2		B1		B2	
	HPSV/400	BAJAJ LED	HPSV/250	EDGE LED	HPSV/150	EDGE LED	HPSV/70	EDGE LED
Luminaire type	HPSV/400	BAJAJ LED	HPSV/250	EDGE LED	HPSV/150	EDGE LED	HPSV/70	EDGE LED
Wattage consumption	445W	210W	285W	120W	175W	72W	84W	36W
Delivered lumens	36765	22600	21800	12500	9300	7300	4600	3708
Pole distance	30	30	30	30	30	30	20	20
Mounting height	10	10	10	10	7	7	7	7
Overhang	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
Average lux level achieved	38	40	20	22	14	16	10	12
Uniformity	0.40	0.55	0.45	0.50	0.25	0.53	0.45	0.70
Energy Savings		53%		58%		59%		57%

Lux level and uniformity



LED Luminaires



HPSV Luminaires

EDGE

LED STREETLIGHT

High performance
versatile
built to last



EDGE streetlights are a keen blend of versatility, durability, energy savings and high-temperature resistance. EDGE literally gives the city its edge. The streets gleam with its excellence and warmth. It is a model citizen of the city, reducing light pollution by eliminating stray light.



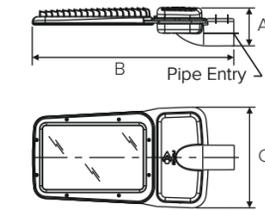
FEATURES

- 100 Lm/W delivered.
- Increased savings to customer.
- Pressure die cast housing with toughened glass.
- Secondary optics for better light distribution.
- Driver protection against lightening, overvoltage, short-circuit.
- Top maintenance – Access to driver is from top.
- Ingress protection: IP66
- Impact resistance: IK07

APPLICATION

- City roads / highways
- Periphery / security lighting
- Industry and office campuses
- Parking areas, parks and gardens

LINE DIAGRAM



	A	B	C
BRTFG 45W LED I	88	360	180
BRTFG 72W LED V3 WH	83	405	174
BRTFG 90W LED I	103	545	256
BRTFG 120W LED I	108	580	287
BRTFG 210W LED	139	717	358

All dimensions in mm (Tolerance +/-5)



UNO DESIGN FAMILY

Wide wattage range for all applications in a city

EDGE product range is available in 5 sizes, with a lumen package ranging from 3600 upto 22000 lumens. With numerous highly efficient lighting distribution and various control options, the range can meet all your road and urban lighting needs with the lowest investment.



AERODYNAMIC DESIGN

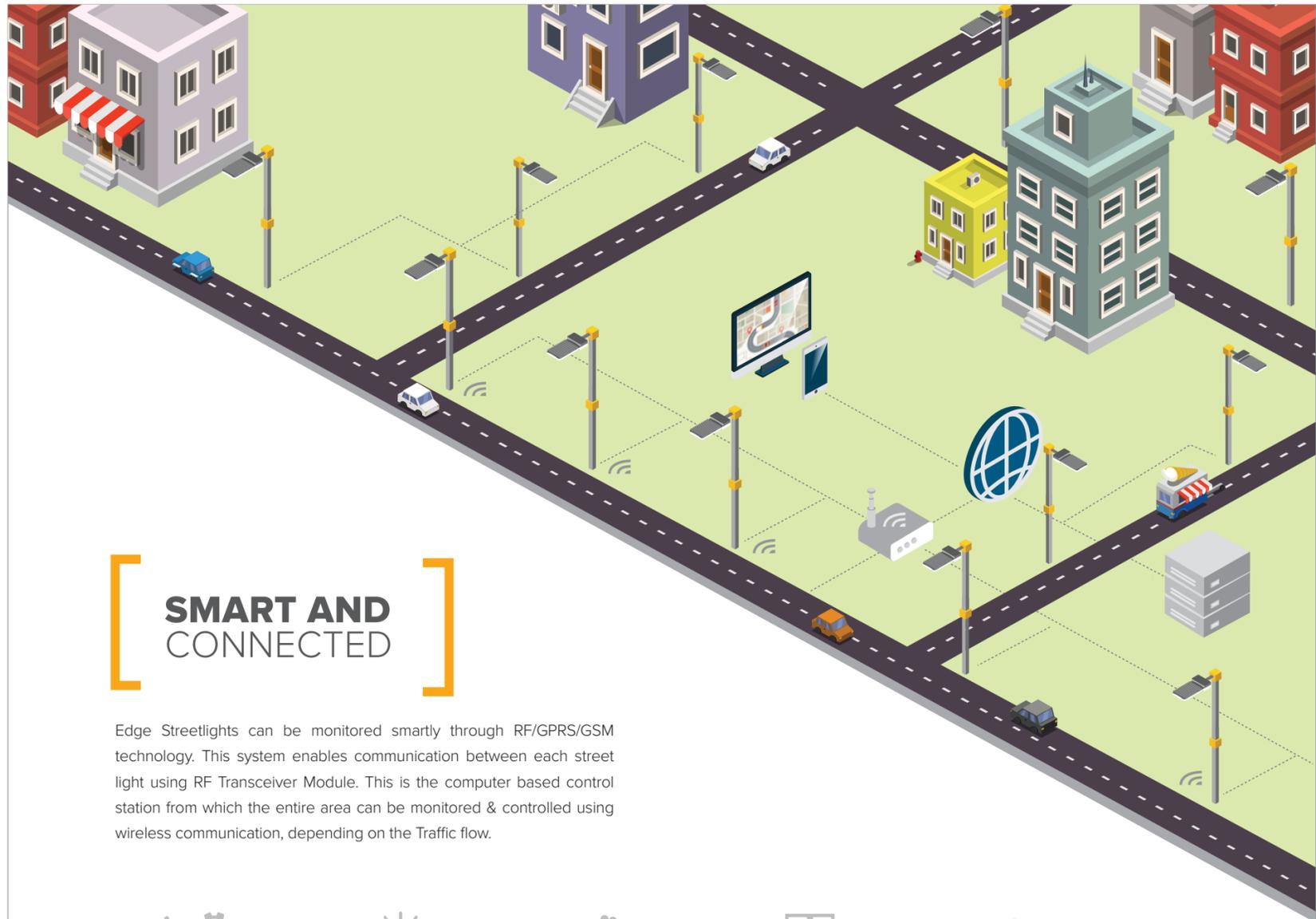
To reduce wind resistance

The streetlights are designed in way so that the luminaire gets the least amount of aerodynamic drag or resistance resulting from wind intensity and direction thus improving wind load bearing capacity of the luminaire.



ENHANCED ELECTRICAL SAFETY

The new generation of LED luminaires have been designed with enhanced safety features for better luminaire life and low maintenance. The drivers are equipped with high voltage cut off function so that the luminaires cuts off while high voltage is applied, also 5kV internal surge protection within the driver and 10kV external surge protection external to driver is provided for additional safety against high surge. Reverse polarity ensures trouble free connections even if there is any human error involved while connecting the luminaires.



SMART AND CONNECTED

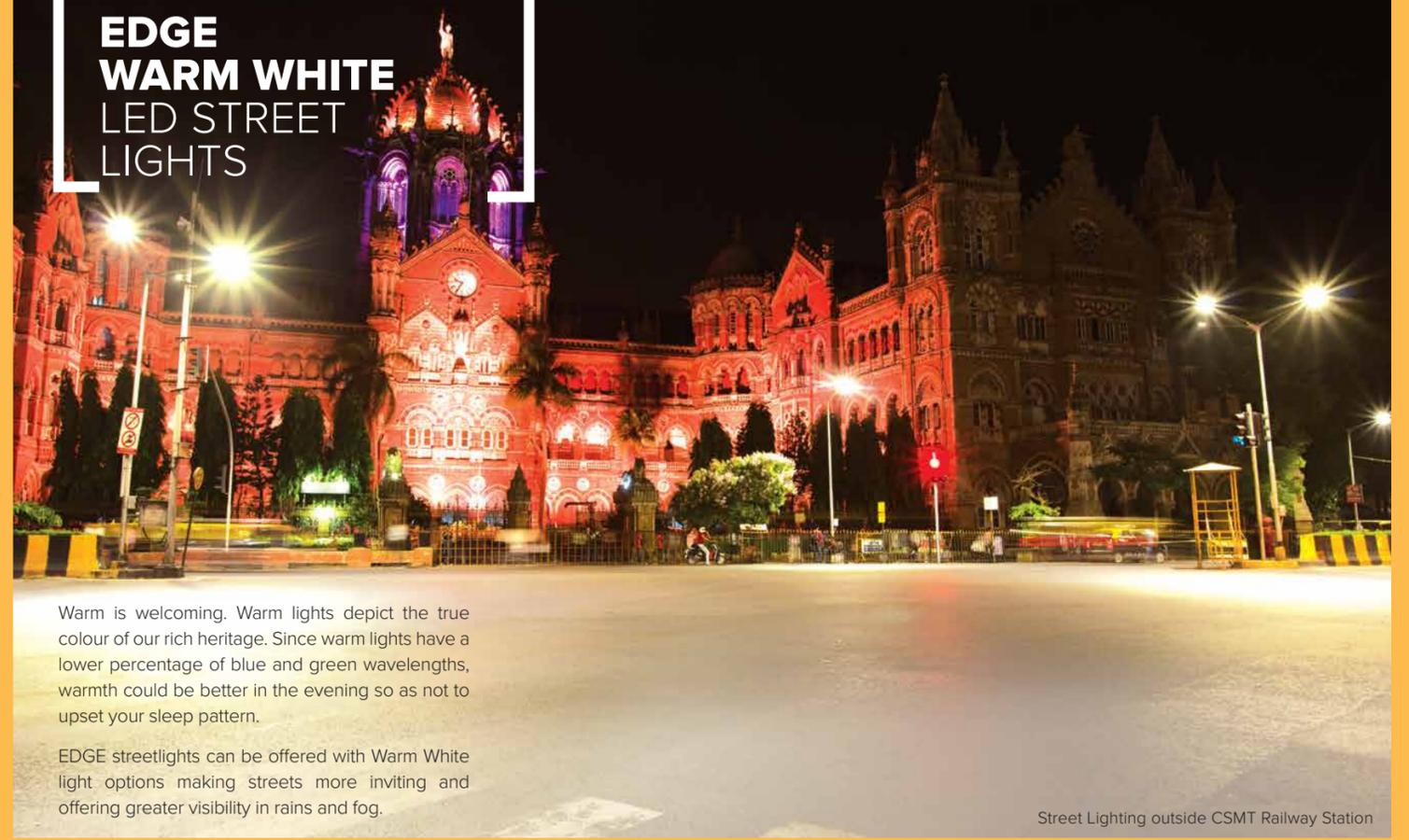
Edge Streetlights can be monitored smartly through RF/GPRS/GSM technology. This system enables communication between each street light using RF Transceiver Module. This is the computer based control station from which the entire area can be monitored & controlled using wireless communication, depending on the Traffic flow.



Note: Smart control options are available only on request.

.next

EDGE WARM WHITE LED STREET LIGHTS



Warm is welcoming. Warm lights depict the true colour of our rich heritage. Since warm lights have a lower percentage of blue and green wavelengths, warmth could be better in the evening so as not to upset your sleep pattern.

EDGE streetlights can be offered with Warm White light options making streets more inviting and offering greater visibility in rains and fog.

Street Lighting outside CSMT Railway Station



S Bridge Lower Parel, Mumbai



Crawford Market, Mumbai



EDGE PLUS

LED STREETLIGHT

Excellent cost effectiveness
maintenance free luminaires
which pays for itself



BAJAJ continues to raise the bar on performance and lower the total cost of ownership by delivering higher value to municipalities and facility managers. The new **EDGE PLUS** street light with its unrivalled lumen output for roadway lighting and economic performance expands the application range replacing up to 250W HPSV/MH street lights.

EDGE PLUS series the perfect fit for a wide array of roadway applications helping to improve the economic value for development authorities, municipalities or owned utilities.

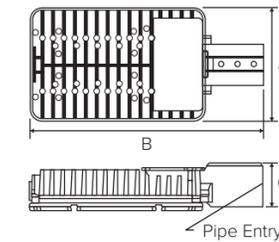
FEATURES

- Efficacy up to 100 Lm/W delivered
- Modular top up lenses for better spread & throw
- Surge Protection @ 4kV internal 8kV external to driver
- Ingress protection IP66
- Superior finish with top maintainable driver compartment

APPLICATION

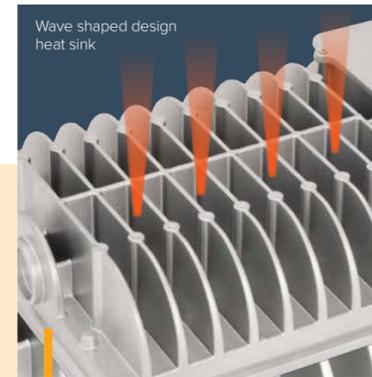
- City roads / highways
- Periphery / security lighting
- Industry & office campuses
- Parking areas, parks & gardens

LINE DIAGRAM



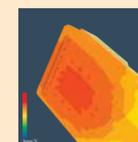
	A	B	C
BRLEP 25W LED	75	320	60
BRLEP 45W LED	193	270	78
BRLEP 90W LED V2	209.63	438.21	76

All dimensions in mm (Tolerance +/-5)



EXCELLENT THERMAL MANAGEMENT

LED Streetlights are very reliable, but the reliability depends upon excellent thermal design around the product and components. LED's produce significant heat at the semiconductor junction. This heat can have an adverse effect on the LED and therefore must be managed to ensure that the true benefits of solid-state lighting are realized.



Thermal simulation results of LED-based street-lighting luminaire



SUPERIOR FINISH

No surface resistance on flat/solid sections with greater corrosion resistance, high strength and wear resistance and amazing dimensional accuracy. It is non toxic with smoother cast surface finish, improved mechanical properties and thinner walls too!



TOP OPENABLE DRIVER COMPARTMENT

For ease of maintenance

The luminaires are designed in a way that there are two separate compartments, one for optical assembly & the other for driver. Top maintainable driver compartment ensure faster maintenance of drivers without compromising on optical compartment protection against water and dust (IP).



VARIANTS



EDGE PLUS 15/20/25/30W LED



EDGE PLUS 45/60/72W LED



EDGE PLUS 90W LED





CUB MINI

LED STREETLIGHT

Sleek
durable
appealing



CUB mini is a perfect solution for secondary roads, parks gardens and pathways. It is aesthetically appealing due to its compact design and offers wide range of outdoor solutions with reduced cost of ownership. It can very well replace most of the fluorescent based luminaires (CFL/FTL) and also ensures uniform lighting distribution.

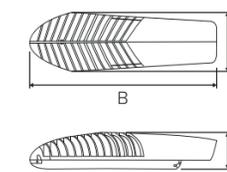
FEATURES

- Epoxy powder coated high pressure die cast aluminum housing
- Clear polycarbonate front cover with SS screws
- Weatherproof gasket for Lamp and control Gear accessories
- Drivers with in-built 5kV surge protection.
- Input voltage range from 140-280VAC
- Ingress protection : IP65

APPLICATION

- Residential Complex
- Small traffic round - about
- Lighting of secondary roads / side roads
- Parks & gardens
- Security lighting

LINE DIAGRAM



	A	B	C
BCLST 25W LED NW	110	380	80
BCLST 25W LED I	99	354	70

All dimensions in mm (Tolerance +/-5)

HIGH PERFORMANCE

Provides **100 lumens/watt**
Secondary optics improving light distribution

AESTHETICS DESIGN

Superior aesthetics
High heat dissipation capability

LONG LIFE

50000 hrs. rated life compared to 8000-10000 hours of CFL/FTL

LOW OPERATION COST

Easy replacement of conventional luminaires ensures **reduction in maintenance cost** and savings on energy by more than 50%

ENVIRONMENTAL CONSCIENCE

No use of hazardous materials like lead & mercury
Minimizing contamination of air and water

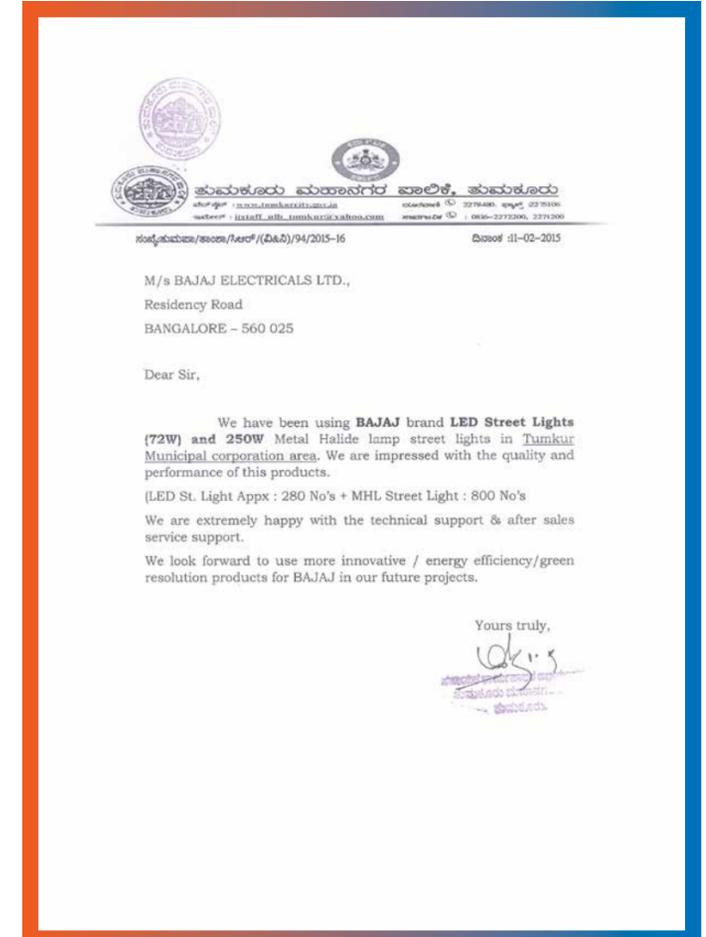
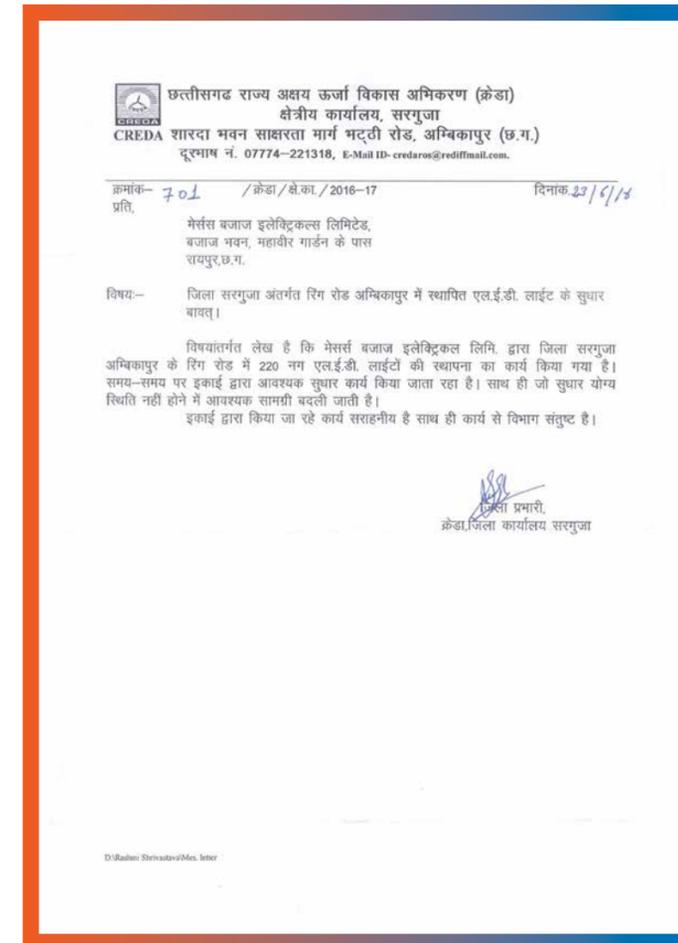


Technical specifications and ordering codes



VOICE OF CUSTOMERS

CREDA, Raipur



Tumkur Municipal Corporation, Bengaluru

Product Code	Product Cat. Ref.	Wattage	Efficacy	CCT	CRI	IP	IK	PF	THD
EDGE LED STREETLIGHTS									
169913	BRTFG 36W LED	36	≥100lm/W	5700K ± 300K	≥ 70	IP66	IK-07	0.95	≤ 10%
169799	BRTFG 45W LED I	45	≥100lm/W	5700K ± 300K	≥ 70	IP66	IK-07	0.95	≤ 10%
169950	BRTFG 60W LED V3	60	≥100lm/W	5700K ± 300K	≥ 70	IP66	IK-07	0.95	≤ 10%
169883	BRTFG 72W LED V3 WH	72	≥100lm/W	5700K ± 300K	≥ 70	IP66	IK-07	0.95	≤ 10%
169900	BRTFG 75W LED I	75	≥100lm/W	5700K ± 300K	≥ 70	IP66	IK-07	0.95	≤ 10%
169901	BRTFG 80W LED I	80	≥100lm/W	5700K ± 300K	≥ 70	IP66	IK-07	0.95	≤ 10%
169800	BRTFG 90W LED I	90	≥100lm/W	5700K ± 300K	≥ 70	IP66	IK-07	0.95	≤ 10%
169902	BRTFG 100W LED I	100	≥100lm/W	5700K ± 300K	≥ 70	IP66	IK-07	0.95	≤ 10%
169553	BRTFG 120W LED	120	≥100lm/W	5700K ± 300K	≥ 70	IP66	IK-07	0.95	≤ 10%
169649	BRTFG 135W LED	135	≥100lm/W	5700K ± 300K	≥ 70	IP66	IK-07	0.95	≤ 10%
169695	BRTFG 140W LED	140	≥100lm/W	5700K ± 300K	≥ 70	IP66	IK-07	0.95	≤ 10%
169820	BRTFG 150W LED	150	≥100lm/W	5700K ± 300K	≥ 70	IP66	IK-07	0.95	≤ 10%
169915	BRTFG 180W LED I	180	≥100lm/W	5700K ± 300K	≥ 70	IP66	IK-07	0.95	≤ 10%
169837	BRTFG 210W LED	210	≥100lm/W	5700K ± 300K	≥ 70	IP66	IK-07	0.95	≤ 10%
On Request	BRTFG 250W LED	250	≥100lm/W	5700K ± 300K	≥ 70	IP66	IK-07	0.95	≤ 10%
EDGE LED STREETLIGHTS (WARM WHITE)									
169884	BRTFG 45W LED WW	45	≥95lm/W	3000K ± 300K	≥ 65	IP66	IK-07	0.95	≤ 10%
169885	BRTFG 100W LED WW	100	≥95lm/W	3000K ± 300K	≥ 65	IP66	IK-07	0.95	≤ 10%
169888	BRTFG 120W LED WW	120	≥95lm/W	3000K ± 300K	≥ 65	IP66	IK-07	0.95	≤ 10%
169886	BRTFG 160W LED WW	160	≥95lm/W	3000K ± 300K	≥ 65	IP66	IK-07	0.95	≤ 10%
EDGE PLUS LED STREETLIGHTS									
On Request	BRLEP 15W LED	15	≥95lm/W	5700K ± 300K	≥ 70	IP65	IK-07	0.95	≤ 10%
On Request	BRLEP 20W LED V2	20	≥95lm/W	5700K ± 300K	≥ 70	IP65	IK-07	0.95	≤ 10%
169826	BRLEP 25W LED WH	25	≥95lm/W	5700K ± 300K	≥ 70	IP65	IK-07	0.95	≤ 10%
169907	BRLEP 30W LED WH	30	≥95lm/W	5700K ± 300K	≥ 70	IP65	IK-07	0.95	≤ 10%
169910	BRLEP 45W LED V2	45	≥95lm/W	5700K ± 300K	≥ 70	IP66	IK-07	0.95	≤ 10%
169941	BRLEP 60W LED V2	60	≥95lm/W	5700K ± 300K	≥ 70	IP66	IK-07	0.95	≤ 10%
169942	BRLEP 72W LED V2	72	≥95lm/W	5700K ± 300K	≥ 70	IP66	IK-07	0.95	≤ 10%
169911	BRLEP 90W LED V2	90	≥95lm/W	5700K ± 300K	≥ 70	IP66	IK-07	0.95	≤ 10%
On Request	BRLEP 120W LED V2	120	≥95lm/W	5700K ± 300K	≥ 70	IP66	IK-07	0.95	≤ 10%
CUB MINI LED STREET LIGHTS									
169828	BCLST 15W LED I	15	≥100lm/W	5700K ± 300K	≥ 70	IP65	IK-07	0.95	≤ 10%
169829	BCLST 20W LED I	20	≥100lm/W	5700K ± 300K	≥ 70	IP65	IK-07	0.95	≤ 10%
169821	BCLST 25W LED I	25	≥100lm/W	5700K ± 300K	≥ 70	IP65	IK-07	0.95	≤ 10%
169887	BCLST 30W LED I	30	≥100lm/W	5700K ± 300K	≥ 70	IP65	IK-07	0.95	≤ 10%
On Request	BCLST 36W LED	36	≥100lm/W	5700K ± 300K	≥ 70	IP65	IK-07	0.95	≤ 10%