



## The essential lighting solution for highways and high-traffic roads

Designed for highway environments, EssentialForce Road combines high efficacy, great optical application and proven reliability. Featuring a corrosion-resistant die-cast aluminum housing, surge protection and compatibility with smart lighting systems, it provides a cost-effective solution for highways.

### Benefits

- EssentialForce Road combines high efficacy, great optical application and installation versatility to provide safe and efficient lighting for highways, expressways and roads, supporting compliance with road lighting standards while minimizing energy consumption.
- With lumen packages reaching up to 32300 lumens and compatibility with smart lighting systems through its NEMA socket, EssentialForce Road is ready for modern transportation infrastructure projects requiring performance, connectivity and future scalability.
- Built to withstand demanding outdoor conditions, EssentialForce Road delivers proven robustness through corrosion-resistant construction, surge protection, IK10 impact resistance and an extended lifetime, reducing maintenance interventions and total cost of ownership.

### Applications

- Highways, road and streets

### Features

- Efficacy up to 185 lm/W
- Flux up to 32300 lumens
- Die cast aluminium body, Grey Munsel N6.5 painting with high resistance to corrosion, tested for 1.000 hours salt spray
- lifetime of 102khours
- IK10
- Standard surge protection: 10kV/12kA.
- Light distribution compliant with NBR 5101
- Integrated tilt(5 degrees)

- NEMA socket, allowing for remote lighting management.
- PROCEL compliant(UE versions)

- Follow the mounting instructions provided by the manufacturer.

## Versions

### Essential Force Road



#### General Information

Lamp family code	-
Light source replaceable	Yes
Driver included	Yes

#### Light Technical

Color rendering index (CRI)	≥70
Luminaire light beam spread	-

#### Operating and Electrical

Surge Protection (Common/Differential)	Surge protection level until 10 kV differential mode and 10 kV common mode
--	--

#### Controls and Dimming

Dimmable	Yes
Maximum dim level	1%

#### Mechanical and Housing

Housing Color	Gray
Overall length	425 mm
Overall width	241 mm
Overall height	135 mm
Ingress protection code	IP66 [Dust penetration-protected, jet-proof]
Mech. impact protection code	IK10 [20 J vandal-resistant]
Standard tilt angle posttop	-
Standard tilt angle side entry	0°+5°-5°

## Approval and Application

Ambient temperature range -5 to +50 °C

## Light Technical

Order Code	Full Product Name	Luminous Flux	Correlated Color Temperature (Nom)	Luminous Efficacy (rated) (Nom)
919306038911	BRP232 LED323 NW 190W DM P7 0-10	32,300 lm	4000 K	170 lm/W
919306038921	BRP232 LED323 CW 190W DM P7 0-10	32,300 lm	5000 K	170 lm/W
919306038931	BRP232 LED315 NW 180W DM P7 0-10 UE	31,500 lm	4000 K	175 lm/W
919306038941	BRP232 LED315 CW 180W DM P7 0-10 UE	31,500 lm	5000 K	175 lm/W
919306039011	BRP232 LED300 NW 170W DM P7 0-10 UE	30,000 lm	4000 K	176 lm/W
919306039021	BRP232 LED300 CW 170W DM P7 0-10 UE	30,000 lm	5000 K	176 lm/W
919306039031	BRP232 LED270 NW 150W DM P7 0-10 UE	27,000 lm	4000 K	180 lm/W
919306039041	BRP232 LED270 CW 150W DM P7 0-10 UE	27,000 lm	5000 K	180 lm/W
919306039051	BRP232 LED210 NW 120W DM P7 0-10 UE	21,000 lm	4000 K	175 lm/W
919306039061	BRP232 LED210 CW 120W DM P7 0-10 UE	21,000 lm	5000 K	175 lm/W

## Operating and Electrical

Order Code	Full Product Name	Power Consumption
919306038911	BRP232 LED323 NW 190W DM P7 0-10	190 W
919306038921	BRP232 LED323 CW 190W DM P7 0-10	190 W
919306038931	BRP232 LED315 NW 180W DM P7 0-10 UE	180 W
919306038941	BRP232 LED315 CW 180W DM P7 0-10 UE	180 W
919306039011	BRP232 LED300 NW 170W DM P7 0-10 UE	170 W
919306039021	BRP232 LED300 CW 170W DM P7 0-10 UE	170 W
919306039031	BRP232 LED270 NW 150W DM P7 0-10 UE	150 W
919306039041	BRP232 LED270 CW 150W DM P7 0-10 UE	150 W
919306039051	BRP232 LED210 NW 120W DM P7 0-10 UE	120 W
919306039061	BRP232 LED210 CW 120W DM P7 0-10 UE	120 W