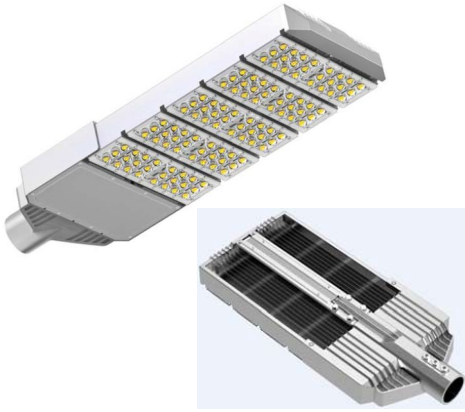




M280 Modular LED streetlight series

M280 had surmounted the bottle neck of LED streetlight development in terms of thermal management and luminous performances. The unique design of its segregated module enable highly efficient in heat dissipation thereby allow high level of luminous efficiency becomes possible.

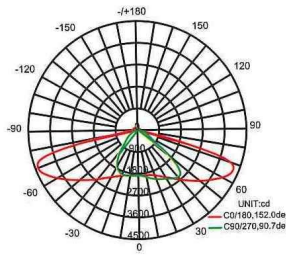


General Characteristic

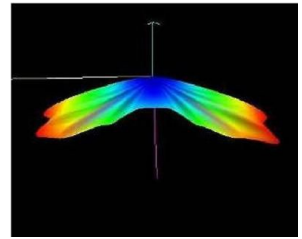
Body structure	The luminaire is composed by various units of standard LED modules fitted into an aluminum framework.
Electrical compartment	Integrated with the framework that the aluminum cover is fitted with UV resistant insulation seal. LED driver is positioned inside the electrical compartment. It could be also re-positioned into the bottom compartment of the lamp pole, if require.
Thermal management	Multi-vane aluminum alloy heat sink integrated with LED module designed in accordance with the characteristic of air-flow.
Lamp pole mounting	The mounting bracket is universal in term of its circumference. It could be suitable to slot into a standard street light lamp pole fastened by M10 stainless steel bolts.
Surface treatment	All aluminum surfaces are anodized in either silver grey or dark grey.
Certification	CE, TUV, RoHS compliant
Wind resistant	>10 grade hurricane
Ingress protection rating	IP65 (Class I & II) compliant
Rated life span	<40000 accumulative hours

Light Characteristic

Light source	LG8X 3535 high power LED
PCB	Copper or aluminum substrate
Luminous efficacy	≥110 lumen per watt
Beam angle	Asymmetrical (140Imax/70Imax)
Color rendering index	Ra ≥75
Color temperature	3200K (K3); 4200K (K4); 5500K (K5)
Glaring index	UGR 20
Module safety	IEC62031 compliant
Photo biological safety	EN62471 compliant
Uniformity	u0 ≈ 0.46
Dazzle & noise	Free
RF interference	Free
Ultra violet rays	Free



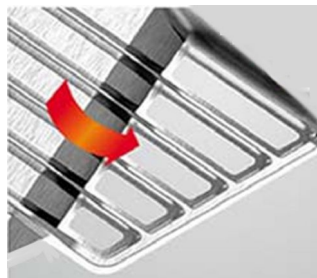
Photometric Graph



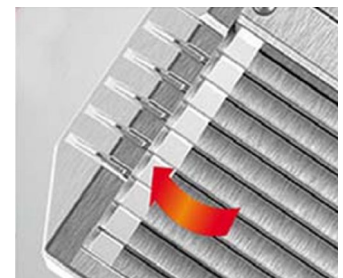
COSMO Image

Electrical Characteristic

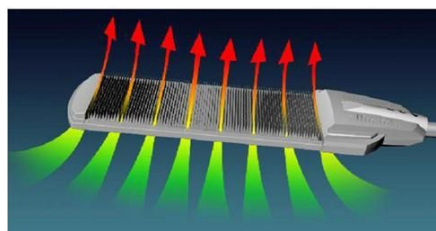
AC input range	90~305VAC, 47~63Hz
Power factor	PF ≥0.95
Current regulation	±3%
Protection type	OCP, OVP, OTP, SCP
Output current	0.25~1.2A
Typical efficiency	90%
Working temperature	-40°C ~ 50°C
Storage temperature	-40°C ~ 85°C
Ingress protection	IP65 compliant
Safety standard	EN61347-1
EMI immunity	EN51547
Harmonic emission	EN61000-3-2



Dust being washed to ditch



Dust discharge from ditch



The multi-vane heat sink is an integral part of the LED module. Picture on left exhibits the airflow of heat dissipation of the LED module that no thermal conductance would be occurred.

Product Specification

Model	Power		Luminous Efficacy (lumen)	Product Size (mm)			Packing		
	Rate	System		L	W	H	Carton Size (mm)	Net Weight	Gross Weight
M28304-024W060	60.0W	43.2W	5700~6000	304	304	128	530 x 350 x 170	4.61kg	5.84kg
M28399-048W080	80.0W	84.2W	7600~8000	399	304	128	630 x 350 x 170	5.30kg	7.33kg
M28494-072W100	100.0W	105.3W	9500~10000	494	304	128	720 x 350 x 170	6.72kg	8.82kg
M28494-072W120	120.0W	126.3W	11400~12000	494	304	128	720 x 350 x 170	6.72kg	8.82kg
M28589-096W150	150.0W	157.9W	14250~15000	589	304	128	810 x 350 x 170	7.62kg	9.82kg
M28684-120W200	200.0W	210.5W	19000~20000	684	304	128	900 x 350 x 170	8.45kg	11.15kg
M28779-144W250	250.0W	263.2W	23750~25000	779	304	128	1000 x 350 x 170	10.76kg	13.36kg
M28874-168W300	300.0W	315.8W	28500~30000	874	304	128	1090 x 350 x 170	12.00kg	14.88kg

Application



Single-row bottom



Single-row top



Double-row opposite



Double-row offset

