



D830 tubular LED lamp

D830 is a tubular LED lamp designed for replacement T8 fluorescent lamps typically used in troffer, batten and ceiling lighting. It is an efficient LED light source for all traditional lighting fixture with minimal power consumption and longer life span. Its effective luminous efficacy is undoubtedly proven compatible to traditional fluorescent or even high.



General Characteristic

Cap-base	T8 medium bipin (G13)
Heat sink	Aluminium alloy
Size of tube	Ø26
Diffuser	ABS opaque white or clear
Rated life span	30000 hours (accumulative)
Ingress protection	IP44
Industrial standard	IEC 62384 / LM-80
Certification	CE, RoHS
Operation temp	-20°C ~+40°C
Operation humidity	95% Rh @-20°C to 50°C

Light Characteristic

Light source	SMD2835
Color rendering index	≥70 Ra
Color temperature	3200K (K3); 4200K (K4); 6500K (K5)
Luminous efficacy (D830S)	105 lumen per watt (standard)
Luminous efficacy (D830B)	113 lumen per watt (Ultra-bright)
Beam angle	120 degrees
Uniformity (uO)	>0.4
RF interference	NO

Electrical Characteristic

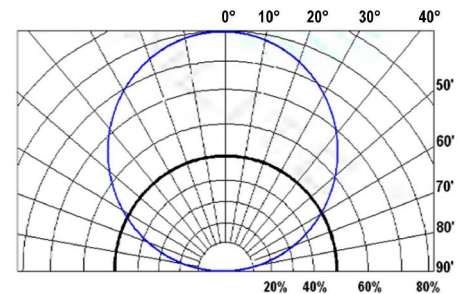
Product series	D830S (isolated driver)
Application (AC/DC)	One-to-one replacement of T8 fluorescent
Application (DC/DC)	External driver (24VDC input)
Input power	185~265VAC, 50/60Hz
Power supply	Built-in LED driver
Power factor	≥0.9
Wire interface	No polarity

Product Specification (AC/DC version)

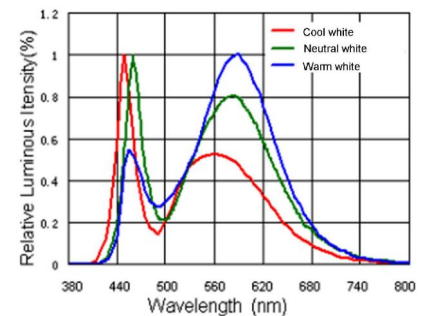
Model #	Power	Lumen	Overall length	Effective length
D83048S-060W10	10W	864~960	605mm	588mm
D83080S-090W15	15W	1292~1428	915mm	898mm
D83096S-120W18	18W	1600~1750	1215mm	1198mm
D83100S-120W20	20W	1800~1950	1215mm	1198mm
D83116S-150W25	25W	2050~2280	1515mm	1498mm

Product Specification (DC/DC version)

Model #	Power	Lumen	Overall length	Effective length
D83048S-060W10	10W	864~960	605mm	588mm
D83080S-090W15	15W	1292~1428	915mm	898mm
D83096S-120W18	18W	1600~1750	1215mm	1198mm
D83100S-120W20	20W	1800~1950	1215mm	1198mm
D83116S-150W25	25W	1873~2071	1515mm	1498mm



Typical Spectral Distribution

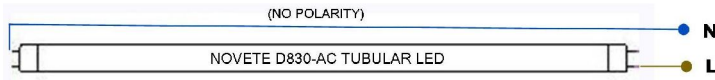


Relative Spectral Distribution

Installation

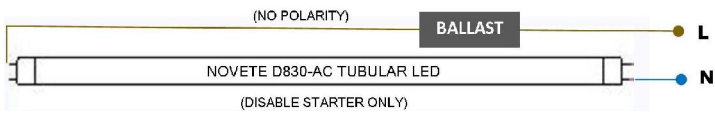
New fixtures

There is no difference between T8 fluorescent tube and D830 tubular LED in terms of their application. Simply connect the live wire to one end of the bipin holder and neutral wire to the other end of the light fitting. No ballast and starter would be necessary.

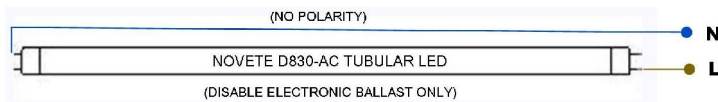


One-to-one replacement

For replacement of D830 tubular LED with the typical T8 fluorescent with induction ballast, simply remove the starter from the existing fitting and place D830 to the existing bipin to accomplish the installation without re-wiring.



Re-wiring would be essentially required if the existing fluorescent fitting is using electronic ballast.



Typical case of one-to-one replacement

D830 composite luminaire



Staircase lighting

M320 weatherproof batten light

M320 series is one of the composite luminaire fitted with D830 tubular LED lamp for staircase, car park and outdoor lighting application. It is available in single-tube and twin-tube model of either 0.6M or 1.2M in length.

M320B is the batten light fitted with emergency battery pack commonly designated for staircase lighting. The battery pack is a TUV/PSB certified unit that compliances with CP19 requirement.

For further saving of energy, M320S could be fitted with NOVETE® D801S microwave sensor that power consumption would be substantially reduced thereby shortening the payback.



A240 surface-mounted troffer light

The ceiling mounted troffer exhibited on left is also a composite luminaire developed for staircase lighting application. The A240 fixture is fitted with two pieces of D83100-W20 tubular LED lamps integrated with emergency battery pack and D801S microwave motion sensor.

This application enable customer for more than 70% energy saving with ROI of 1.2.

Packaging Information

Model	Product Packing		Carton		
	Size of box	Weight	Quantity	Size overall	G/N weight
D83048 (2 feet tube)	620 x 36.5 x 36.5mm	0.28kg	36 units	695 x 235 x240mm	11.0/10.1 kg
D83080 (3 feet tube)	920 x 36.5 x 36.5mm	0.40kg	36 units	995 x 235 x240mm	15.2/14.4kg
D83100 (4 feet tube)	1235 x 36.5 x 36.5mm	0.50kg	36 units	1295 x 235 x240mm	19.3/18.0kg
D83116 (5 feet tube)	1535 x 36.5 x 36.5mm	0.62kg	36 units	1595 x 235 x240mm	19.5/22.3kg

