

High Performance T8 LED Tube



Model: LT- I series

Features :

- ✓ Use high performance SMD LED Chips.
- ✓ Double side feed to suit retrofit solution.
- ✓ Direct replacement of Fluorescent tubes in electro-magnetic ballast fitting.
- ✓ Readily replace fluorescent tubes in Normal and Emergency fitting.
- ✓ New SPM design - LED power circuit protection to cut off individual LEDs when LED mal-functioned.
- ✓ Constant current design for stable tube LED illumination control.
- ✓ Wide Beam Angle (260 deg. ~ 300 deg) Design for better lighting effect.
- ✓ Aluminum body with PC lens (clear or milky).
- ✓ Newest LED Lighting standard IEC62560 -2011 certified.
- ✓ Photo-Biological Test IEC62471 certification, Group 1.



Technical Data:

Product Model	Type	Color Temp	Label Color Code	Lum. Flux (lm)	Input Voltage (V)	Power (W)	Beam Angle
LT-I0609	Normal 80lm/W	3000 K/4000 K/6000 K	White	720	200~240V 50 / 60 Hz	9W	120 degree
LT-I0912		3000 K/4000 K/6000 K		960		12W	120 degree
LT-I1218		3000 K/4000 K/6000 K		1440		18W	120 degree
LT-I1522		3000 K/4000 K/6000 K		1760		22W	120 degree
LT-I0609-D	Wide 80lm/W	3000 K/4000 K/6000 K		720		9W	260 degree
LT-I0912-D		3000 K/4000 K/6000 K		960		12W	260 degree
LT-I1218-D		3000 K/4000 K/6000 K		1440		18W	260 degree
LT-I1522-D		3000 K/4000 K/6000 K		1760		22W	260 degree
Product Model	Type	Color Temp	Label Color Code	Lum. Flux (lm)	Input Voltage (V)	Power (W)	Beam Angle
LT-I0609	Normal 90lm/W	3000 K/4000 K/6000 K	Green	810	200~240V 50 / 60 Hz	9W	120 degree
LT-I0912		3000 K/4000 K/6000 K		1080		12W	120 degree
LT-I1218		3000 K/4000 K/6000 K		1620		18W	120 degree
LT-I1522		3000 K/4000 K/6000 K		1980		22W	120 degree
LT-I0609-D	Wide 90lm/W	3000 K/4000 K/6000 K		810		9W	260 degree
LT-I0912-D		3000 K/4000 K/6000 K		1080		12W	260 degree
LT-I1218-D		3000 K/4000 K/6000 K		1620		18W	260 degree
LT-I1522-D		3000 K/4000 K/6000 K		1980		22W	260 degree
Product Model	Type	Color Temp	Label Color Code	Lum. Flux (lm)	Input Voltage (V)	Power (W)	Beam Angle
LT-I0609	Normal 100lm/W	3000 K/4000 K/6000 K	Blue	900	200~240V 50 / 60 Hz	9W	120 degree
LT-I0912		3000 K/4000 K/6000 K		1200		12W	120 degree
LT-I1218		3000 K/4000 K/6000 K		1800		18W	120 degree
LT-I1522		3000 K/4000 K/6000 K		2200		22W	120 degree
LT-I0609-D	Wide 100lm/W	3000 K/4000 K/6000 K		900		9W	260 degree
LT-I0912-D		3000 K/4000 K/6000 K		1200		12W	260 degree
LT-I1218-D		3000 K/4000 K/6000 K		1800		18W	260 degree
LT-I1522-D		3000 K/4000 K/6000 K		2200		22W	260 degree

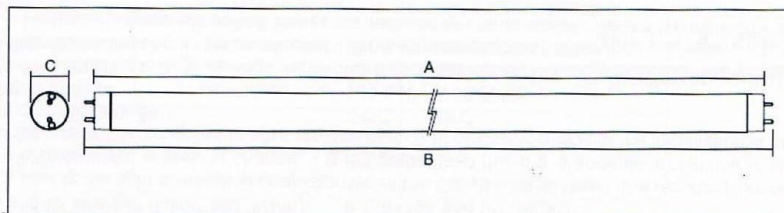
Note: * Luminous Flux (lm) Chromaticity Tolerances to LED Industrial Standard ANSI C78.377.

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Tube Dimensions:



Product Model	A mm	B mm	C mm	Net Weight
LT-I0608	588	602	28	150
LT-I1912	898	912	28	215
LT-I1218	1198	1212	28	282
LT-I1520	1499	1513	28	326
LT-I0608-D	588	602	28	150
LT-I1912-D	898	912	28	215
LT-I1218-D	1198	1212	28	282
LT-I1520-D	1499	1513	28	326

Standards:

Lens:	Diffused / clear PC Cover	CRI :	> 80Ra
End Cap:	PC / Nylon	LED CCT design:	SPM Design of LED Protection
Mounting:	G13	End Feed:	Double end feed Optional Single end feed
Protection Class:	IP20		
ESD Protection:	IEC61547		
Dimming Function:	Optional		
Ambient Temp:	-20°C to 60°C		
Power factor:	> 0.9 at direct supply		

LED Light Safety	IEC62560-2011
Photo-biological Safety	IEC62471, Group 1 (No label required)
General Lamp Safety:	IEC60598-2-1:1989 & EN60598-1:2006

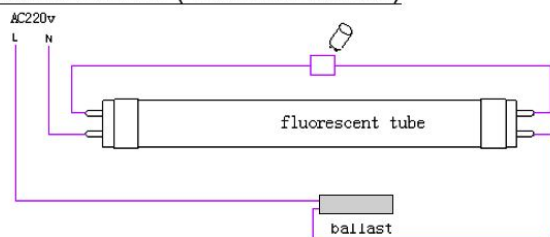
EMC	EN55015:2006; EN61547:1995+A1:2000 EN61000-3-2:2006; EN61000-3-3:1995+A1:2001+A2:2005
FS COP:	850 °C to F.S PPA 104A
Insulation Class:	IEC61347
Environmental:	RoHS

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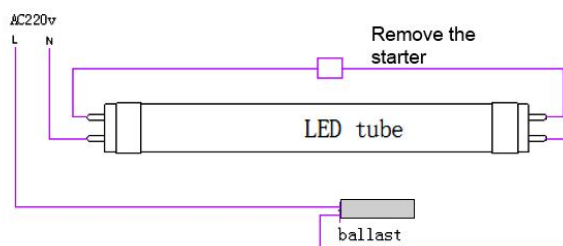


Model: LT- I series

LED Tube Wiring Connection For Retrofit – Electro-magnetic Ballast and Starter (Remove starter)



Before Retrofit



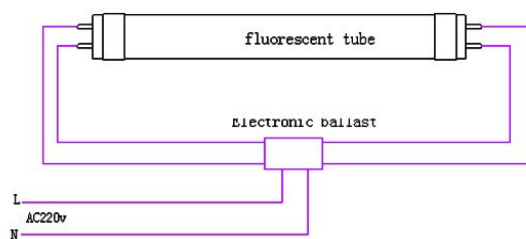
After Retrofit



Lighting Source

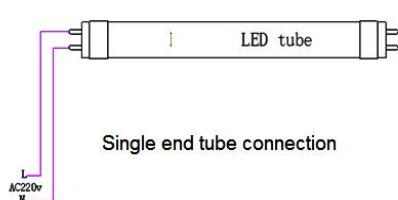
LED Tube Wiring Connection For Retrofit – Electronic Ballast (Direct Connection)

Chromaticity Tolerances ANSI C78.377

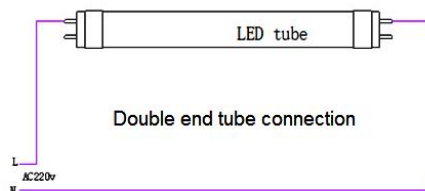


Before Retrofit

Nominal CCT ¹⁾	Target CCT and tolerance (K)	Target Duv and tolerance
2700 K	2725 ± 145	0.000 ± 0.006
3000 K	3045 ± 175	0.000 ± 0.006
3500 K	3465 ± 245	0.000 ± 0.006
4000 K	3985 ± 275	0.001 ± 0.006
4500 K	4503 ± 243	0.001 ± 0.006
5000 K	5028 ± 283	0.002 ± 0.006
5700 K	5665 ± 355	0.002 ± 0.006
6500 K	6530 ± 510	0.003 ± 0.006
Flexible CCT (2700 - 6500 K)	$T^{2)} \pm \Delta T^{3)}$	$D_{uv}^{4)} \pm 0.006$



Single end tube connection



Double end tube connection

After Retrofit



www.ilighting.com.hk

Room B3, 18/F Bonsun Industrial Building, 364-366 Sha Tsui Road, Tsuen Wan.

Phone: 852-35863418

Fax: 852-23212617

info@ilighting.com.hk

High Performance T8 LED Tube



Model: LT- I series with emergency pack



LED Tube under emergency condition for 2 hours using industrial type of emergency packs in the market.
Lab tests to comply with FSD COP PPA-104A.

Power output : 8W / 10W (600mm length); 18W / 20W (1200mm Length)

Emergency output BLF : 50%

Battery : sealed Ni-cad rechargeable battery, 2.5 Ah, 9.6V

Power input: AC 220V ~ 230V +10%, 50Hz.

Circuit protection: Low voltage Discharge protection

Operating temperature : 0 °C ~ 50 ° C

Transfer time : < 0.3 sec.

Recharge period: 12 hours for 2 hour discharge

Note: For different brand and model of the emergency pack, the data shall be different from above.

Customers need to obtain the confirmation of suitability of the emergency pack from iLighting before placing orders.

