



iBright™

E58i T8 LED Tube

Family Model

HFL-8000N-060600-00

HFL-8000N-120600-00

HFL-8000N-150600-00

iBright™ E58i T8 LED Tubes are an economic solution for fluorescent replacements which can be dropped directly into existing T8, T10, T12 fixtures without ballast or starter.

iBright™ E58i utilizes 5050 SMD LED diodes, and a clear lens to maximize lumen output.

The lamp can produce illuminance equivalent to that from a fluorescent tube while using less than 50% of the energy.

iBright™ E58i comes with a UL listed external power supply, input voltage 100-277VAC. This external placement of the power supply plays a large part in the excellent thermal properties of iBright™ E58i.

The lamp uses a patented solution for heat management which is designed for quick and efficient dissipation of heat from the LED chip to the air. With the reduction in heat buildup, the life span of the lamp increases, and performance stabilizes at an optimal level.

Performance Summary

Length: 1.96 ft (600 mm), 3.93 ft (1200 mm), 4.92 ft (1500 mm)

Power consumption: 8W±1W, 16W±1W, 21W±1W

Luminous efficacy: 85 lm/W

Lumens: 725-775 lm, 1450-1550 lm, 1800-1950 lm

CCT:

3000 K

4000 K

6000 K

CRI: >80

Recommended Applications

General illumination for homes, offices, restaurants, hotels, malls, buses, trains, warehouses, parking lots etc;

Task lighting for cabinets, cupboards etc in your homes, restaurants, and kitchens or any other places where accent lighting is required.

Retail display lighting for the articles in your stores and shops;
Back lighting for square billboards or advertisement boards.



Ordering Information

Typical Order Example: T8E512L360C000

SERIES	GENERATION	SIZE	VOLTAGE	CCT	Lens Type	OPTION A	OPTION B
T8=T8 Tube	E5=G5 EPS	06=0.6m/2ft 12=1.2m/4ft 15=1.5m/5ft	L3=36VDC	30=3000K 40=4000K 60=6000K	C=Clear Lens	0=Default	00=Default

Product Specifications

CONSTRUCTION & MATERIALS			
Length	1.96 ft (600 mm)	3.93 ft (1200 mm)	4.92 ft (1500 mm)
Housing	Extrusion Aluminum and PC Diffuser		
Tube Type	T8		
Base Type	G13		
Lens Type	Clear		

ENVIRONMENTAL SYSTEM	
Work Environment	Indoor use (applicable for dry environments)
Operating Temperature	-20~40°C (-4~104°F)

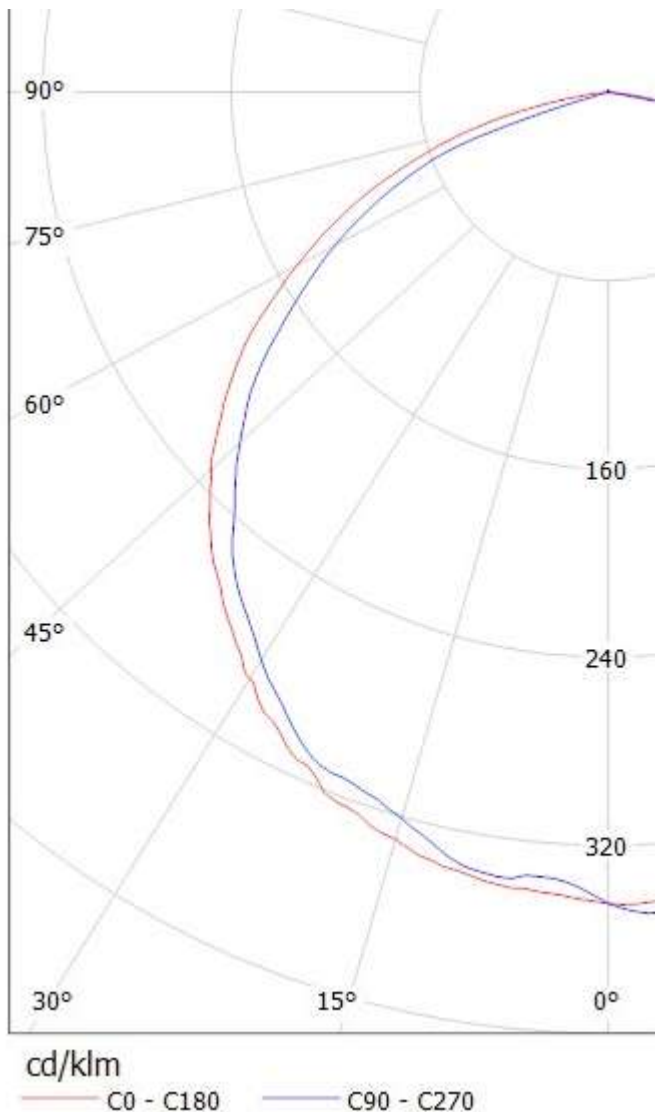
OPTICAL SYSTEM			
Type	1.96 ft (600 mm)	3.93 ft (1200 mm)	4.92 ft (1500 mm)
Luminous Flux	725-775 lm	1450-1550 lm	1800-1950 lm
Color Temperature	3000 K, 4000 K, 6000 K		
CRI	>80		
Beam Angle	120°		

ELECTRICAL SYSTEM			
Type	1.96 ft (600 mm)	3.93 ft (1200 mm)	4.92 ft (1500 mm)
Power Consumption	8W±1W	16W±1W	21W±1W
Input Voltage	100-277 VAC		
Frequency	50-60 HZ		
Power Factor	>0.95		

REGULATORY & VOLUNTARY QUALIFICATIONS	
UL, cUL	
CE, RoHS	
UL, cUL, CE listed external power supply	



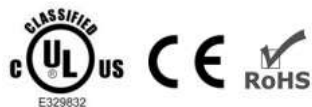
Photometric



ZONAL LUMEN SUMMARY			
ZONE	LUMENS	% LAMP	% LUMINAIRE
0-30	420.9	27.20%	27.20%
0-40	695.2	44.90%	44.90%
0-60	1246.8	80.50%	80.50%
60-90	300.3	19%	19%
70-100	102.5	6.60%	6.60%
90-120	0.2	0.00%	0.00%
0-90	1,547.10	99.90%	99.90%
90-180	1.5	0.10%	0.10%
0-180	1,548.60	100%	100%

LUMINOUS INTENSITY									
Gamma	C 0°	C 45°	C 90°	C 135°	C 180°	C 225°	C 270°	C 315°	C 360°
0.0°	345	345	345	345	345	345	345	345	345
15.0°	334	338	332	338	332	330	323	332	334
30.0°	301	307	311	306	298	294	288	294	301
45.0°	242	253	253	251	239	231	223	233	242
60.0°	162	178	179	174	157	145	137	149	162
75.0°	61	81	85	79	58	46	5.18	48	61
90.0°	0	0.75	1.43	0.49	0	0	0	0	0

ILLUMINANCE AT A DISTANCE					
HEIGHT(FT)	FOOTCANDLE	BEAM SPREAD(FT)		FIELD SPREAD(FT)	
		HORIZONTAL	VERTICAL	HORIZONTAL	VERTICAL
2	133.5 FC	6.2	6.3	15.6	20.1
4	33.4 FC	12.5	12.7	31.2	40.3
6	14.8 FC	18.7	19	46.8	60.4
8	8.3 FC	25	25.3	62.4	80.6
10	5.3 FC	31.2	31.7	78	100.7
		BEAM ANGLE		FIELD ANGLE	
		114.7 °	115.5 °	151.2 °	157.5 °





USER GUIDE

Note:

Please read this entire manual to fully understand and safety use this product.

Specifications are subject to change without notice. Please visit www.atgelectronics.com for the most recent user guide versions.

Warning:

WARNING – Risk of fire or electric shock. iBright™ E58i T8 LED Tube installation requires knowledge of luminaires electrical systems. If not qualified, do not attempt installation. Contact a qualified electrician.

WARNING – Risk of fire or electric shock. Install this kit only in the luminaires that have the construction features and dimensions shown in the photographs and/or drawings.

WARNING – To prevent wiring damage or abrasion, do not expose wiring to edges of sheet metal or other sharp objects.

Lamp replacement instructions shall indicate the manufacturer's custom lamp part number, and a method to order replacement lamps by phone, website and/or mail. These instructions shall be included on an information sheet packaged with each unit.

Included in this box

ATG Electronics iBright™ E58i T8 LED Tube, 1 Pc

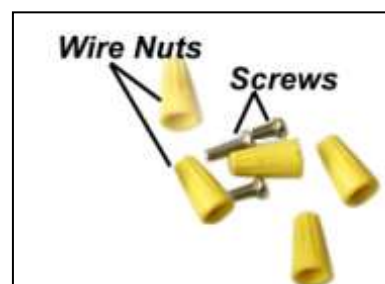
User Guide, 1 set

Accessory Kit, 1 Set, including:

-External Power Supply, 1Pc

-Wire Nuts, 5 Pcs

-Screws, 3 Pcs



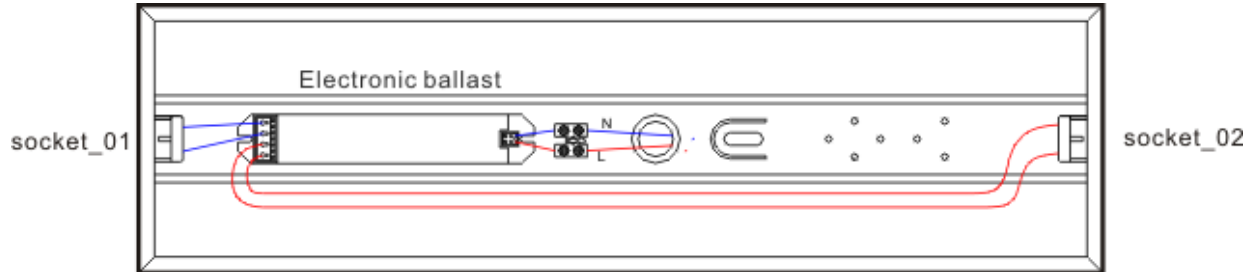
iBright™ E58i T8 LED Tube ONLY work with specific matching external power supplies. Power supplies that do not match specifications will cause the iBright™ E58i to burn out.



● Retrofit Luminaire with Electronic Ballast

Before

Figure 1



Installation Steps

Step 1: Turn off main power before installation

For safety, make sure main power source is switched off before attempting to install.

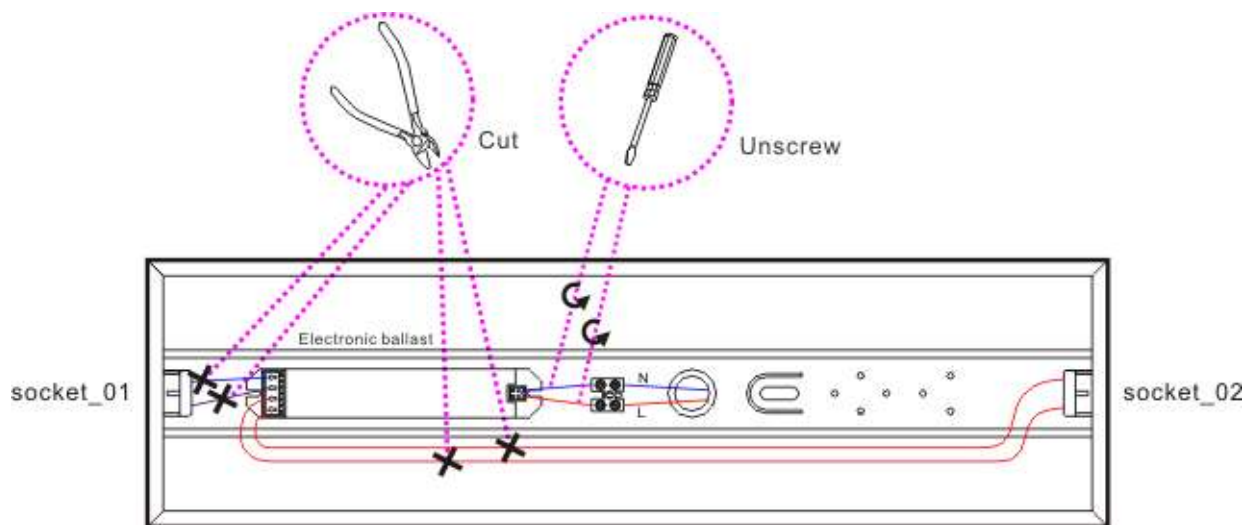
Step 2: Remove existing fluorescent light.

The existing fluorescent light is not needed and should be recycled as appropriate.

Step 3: Open the ballast cover, disconnect all power wires from the ballast, and take the ballast out of the fluorescent luminaire, as shown in Figure 2 below.

Keep one wire from each socket to connect to the external power supply. The other wire should be cut off at the socket.

Figure 2



Step 4: Install the MATCHING external power supply, as shown in Figure 3 below.

The external power supply is sized to match the luminaire and should be installed near the middle of the luminaire using the 3M tape and screws provided.

Connect the input wires of the external power supply to the main power outlet.

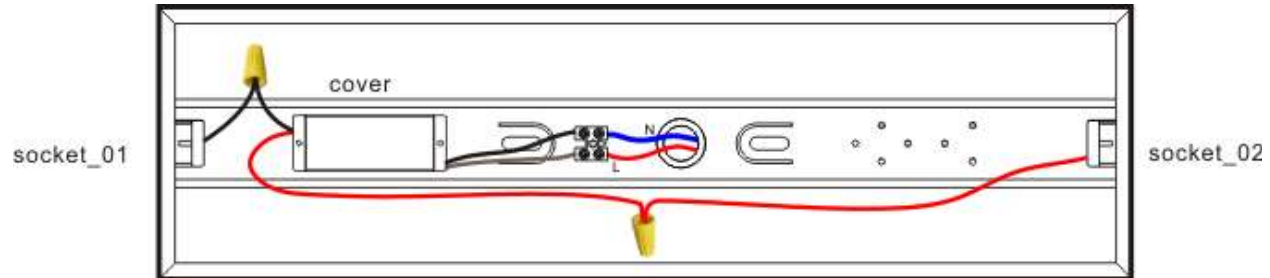
Using wire nuts, connect the output wires of the external power supply to one wire at both of the T8 sockets.

Place the existing cover back to protect the external power supply.



After

Figure 3

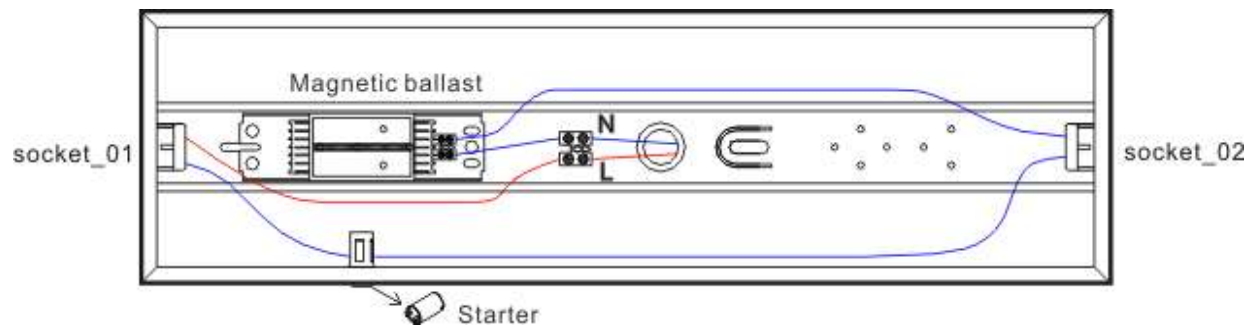


Step 5: Drop the iBright™ E58i into the fluorescent luminaire. Switch main power on to light it up.

● Retrofit Luminaire with Magnetic Ballast

Before

Figure 4



Installation Steps

Step 1: Turn off main power before installation

For safety, make sure the main power source is switched off before attempting to install.

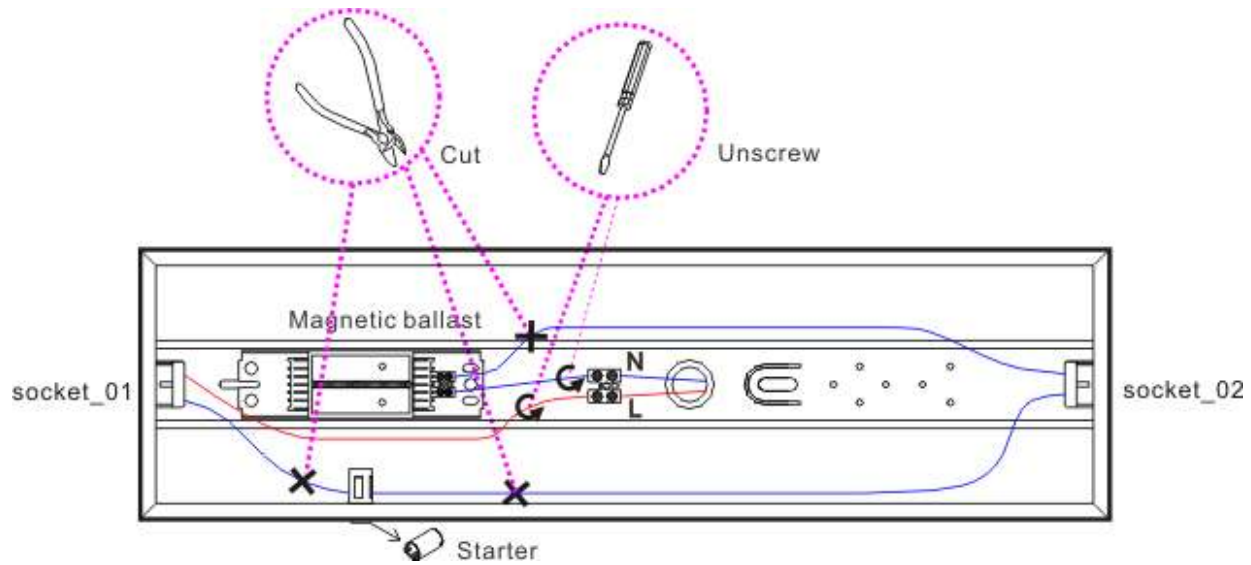
Step 2: Remove existing fluorescent light.

The existing fluorescent light is not needed and should be recycled as appropriate.

Step 3: Open the ballast cover, disconnect all wires from the ballast, and disconnect the starter from the T8 sockets as shown in Figure 5 below. Remove the ballast from the fluorescent luminaire and recycle it as appropriate. Keep the starter in position. Keep one wire from each socket to connect to the external power supply. The other wire should be cut off at the socket.



Figure 5



Step 4: Install the MATCHING external power supply as shown in Figure 6 below.

The external power supply is sized to match the luminaire and should be installed near the middle of the luminaire with the 3M tape and screws provided.

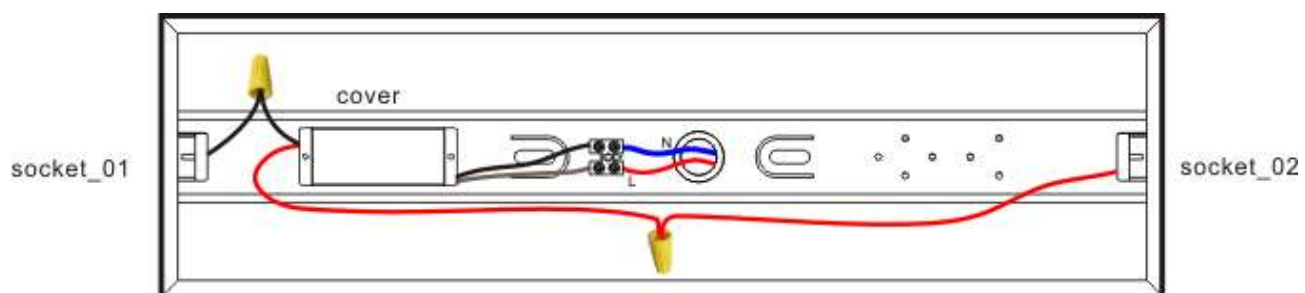
Connect the input wires of the external power supply to the main power outlet.

Using wire nuts, connect the output wires of the external power supply to one of wire at both T8 sockets.

Place the existing cover back to protect the external power supply.

After

Figure 6



Step 5: Drop the iBright™ E58i into the fluorescent luminaire. Switch main power on to light it up.

