



iBright™

I38i T8 LED Tube

G3 IPS US

Family Model

HFL-8030N-06060U-H0

HFL-8060N-12060U-H0

HFL-8080N-15060U-H0

iBright™ I38i T8 LED Tubes are the next generation solution in replacing conventional fluorescent lights. They feature higher reliability, easier retrofit, and higher efficacy in lighting and energy usage.

Higher Reliability

iBright™ I38i LED Tubes are more reliable than fluorescent tubes for three reasons. 1) They utilize high quality SMD LEDs, which feature low light decrease over time and excellent heat dissipation; 2) they use specially designed aluminum housing that prevents internal heat buildup through a design allowing efficient heat dissipation; and 3) they use a specially designed loop circuit, meaning one LED failing won't make the entire tube fail, as happens with fluorescent tubes.

Easier Retrofit

iBright™ I38i LED Tubes can be placed directly into existing T8 sockets, simply by removing the starter and disconnecting the ballast in the fixture.

Higher Efficacy

iBright™ I38i LED Tubes use high quality SMD LEDs of high efficacy. They provide versatile lighting well-suited for use in offices, galleries, shop windows, hotels, meeting rooms. They are especially suited to operation in low temperature areas, just like conventional fluorescent lights. Choose the iBright™ I38i for general illumination, task lighting, display lighting, or back lighting.

Performance Summary

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

Power consumption: 8W±1W, 17W±1W, 21W±1W

Luminous efficacy: >95 lm/W

Lumens: 800-850 lm, 1600-1700 lm, 2000-2100 lm

CCT:

2800-3200 K

4250-4750 K

5500-6500 K

CRI: >84

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: T8I306HU60S0U0

SERIES	GENERATION	SIZE	VOLTAGE	CCT	Lens Type	OPTION A	OPTION B
T8=T8 Tube	I3=G3 IPS	06=0.6m/2ft 12=1.2m/4ft 15=1.5m/5ft	HU=100-277 VAC	30=3000K 45=4500K 60=6000K	S=Striated Lens	0=Default	U0=US Version

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	T10		
Base Type	G13		
Lens Type	Striated		

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

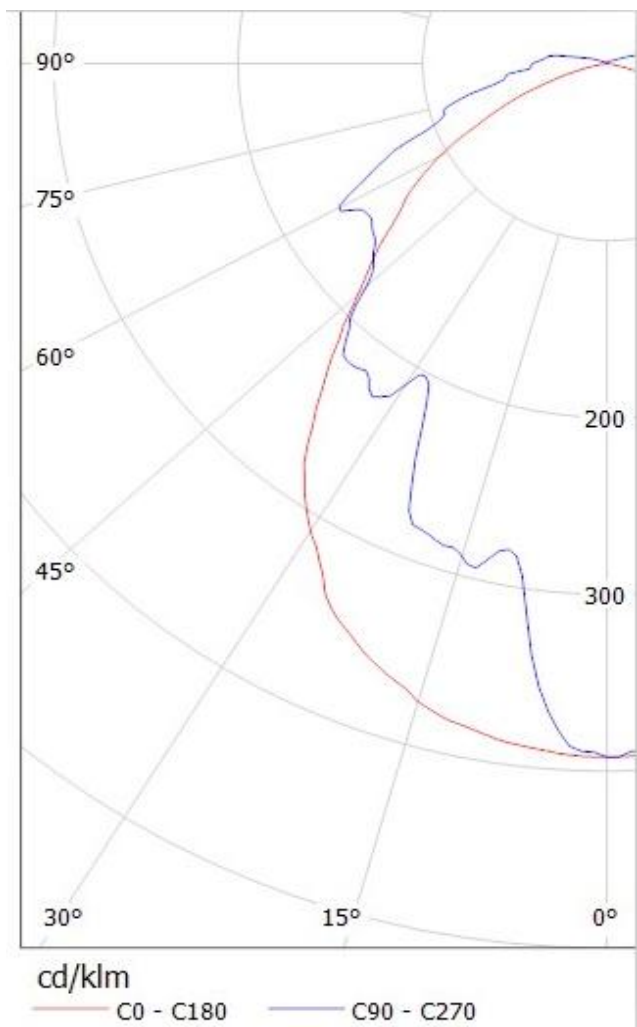
OPTICAL SYSTEM			
Type	1.96 ft (600 mm)	3.93 ft (1200 mm)	4.92 ft (1500 mm)
Luminous Flux	800-850 lm	1600-1700 lm	2000-2100 lm
Color Temperature	2800-3200 K, 4250-4750 K, 5500-6500 K		
CRI	>84		
Beam Angle	120°		

ELECTRICAL SYSTEM			
Type	1.96 ft (600 mm)	3.93 ft (1200 mm)	4.92 ft (1500 mm)
Power Consumption	8W±1W	17W±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	442.3	26.10%	26.10%
0-40	700	41.30%	41.30%
0-60	1189.7	70.20%	70.20%
60-90	434	26%	26%
70-100	272.7	16.10%	16.10%
90-120	65.8	3.90%	3.90%
0-90	1,623.70	95.80%	95.80%
90-180	70.7	4.20%	4.20%
0-180	1,694.30	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 °	392	392	392	392	392	392	392	392	392
15.0 °	379	333	304	337	377	274	293	272	379
30.0 °	313	292	276	292	315	246	203	248	313
45.0 °	193	212	201	212	196	167	192	159	193
60.0 °	93	127	213	121	105	126	167	120	93
75.0 °	19	115	137	109	21	84	87	80	19
90.0 °	0.23	58	58	68	0.06	34	41	32	0.23

ILLUMINANCE AT A DISTANCE					
		BEAM SPREAD(FT)		FIELD SPREAD(FT)	
HEIGHT(FT)	FOOTCANDLE	HORIZONTAL	VERTICAL	HORIZONTAL	VERTICAL
2	166.1 FC	5.5	3.9		12.2
4	41.5 FC	10.9	7.9		24.4
6	18.5 FC	16.4	11.8		36.7
8	10.4 FC	21.8	15.8		48.9
10	6.6 FC	27.3	19.7		61.1
		BEAM ANGLE		FIELD ANGLE	
		107.5 °	89.1 °	N/A	143.7 °





USER GUIDE

Included in this box

ATG Electronics iBright™ I38i T8 LED Tube (G3 IPS US), 1 Pc

User Guide, 1 set

Red-Black Wires, 2 PCs

Wire Nuts, 4 PCs

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™ I38i 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.

● Retrofit Luminaire with Electronic Ballast

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: Take off existing fluorescent light and disconnect the ballast.

Step 3: Cut four leads of G13 lamp holders. (For detailed placement of the cuts, note the X's on the wiring diagram labeled "Before" shown below.)

Step 4: Reconnect lamp holder leads L and N to the supply wires of branch circuit according to the wiring diagram below. Both G13 sockets of the fixture should be connected to the power source directly.

Step 5: Install fixture as before.

Step 6: Adhere a label to the luminaire to the effect of "This luminaire has been modified and can no longer operate fluorescent lamps." on the retrofitted luminaire, where readily visible during relamping.

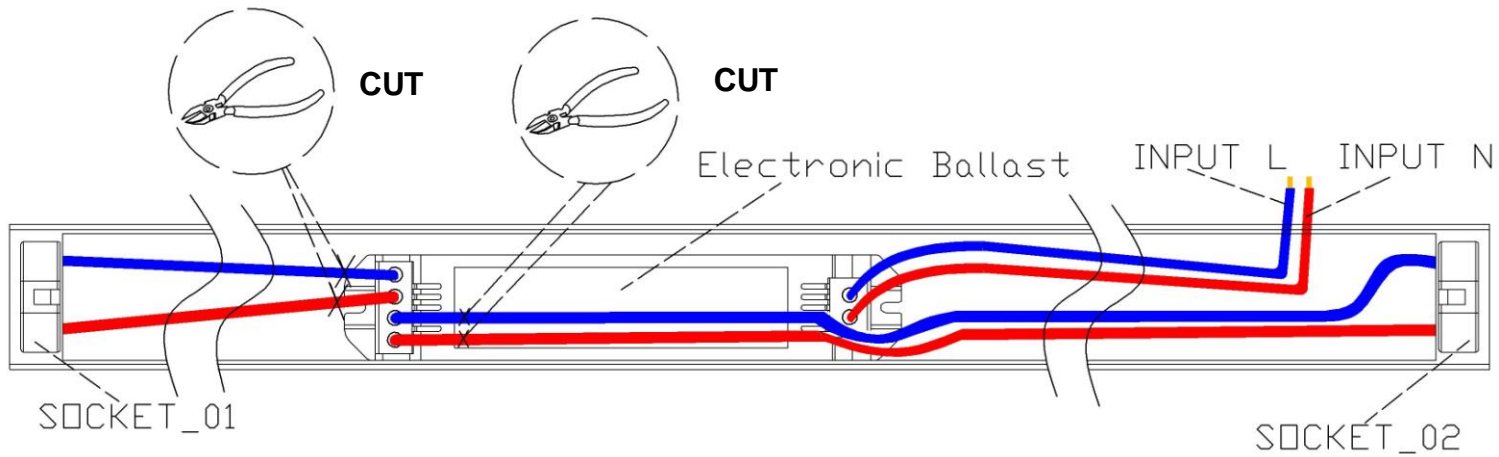
Step 7: Install the iBright™ LED tube into the fixture.

Step 8: Turn on the power.

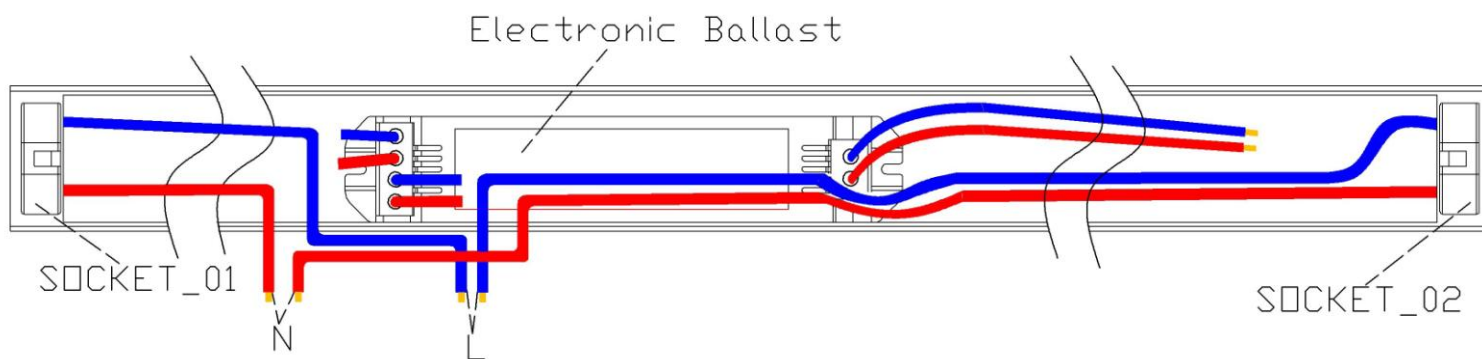


Wiring Diagram for Electronic Ballast

Before



After



● Retrofit Luminaire with Magnetic Ballast

Installation Steps

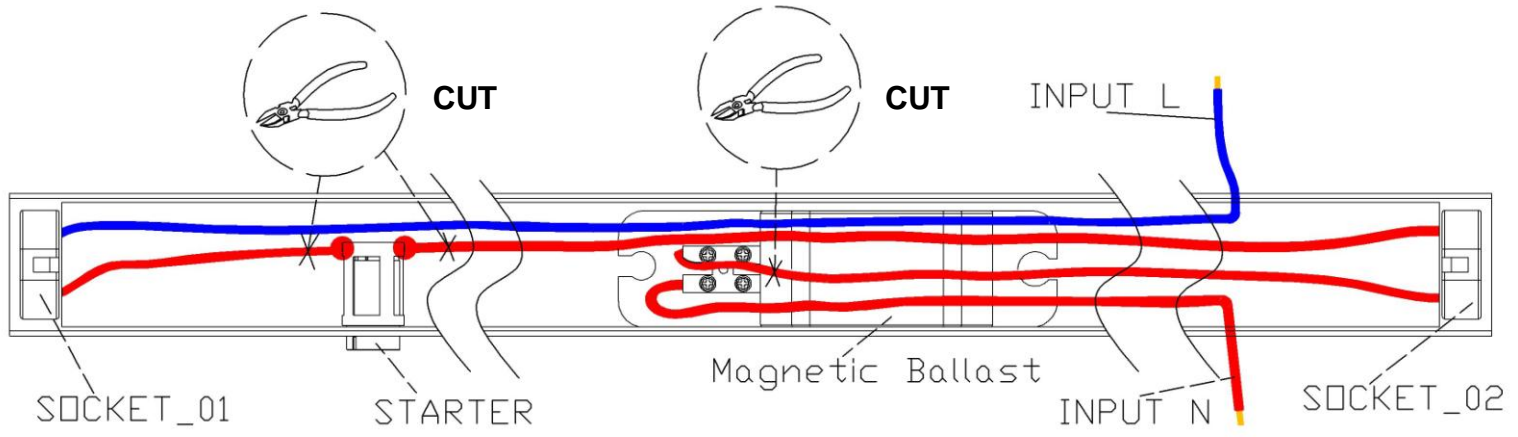
Repeat Steps 1 to 7 of “retrofit luminaires with electronic ballast” excepting Step 3, changes in which are noted below:

Step 3: Cut the ballast output lead and cut the wirings of the starter. Both the ballast and starter need to remain in place. (For detailed placement of the cuts, note the X’s on the wiring diagram labeled “Before” shown below.)



Wiring Diagram for Magnetic Ballast

Before



After

