



LED Retrofit Tube Reference Chart



Select IOTA emergency ballasts are UL Listed for emergency operation of specific LED retrofit tube applications. Compatible IOTA solutions are comprised of our "AC Output" product designs. Refer to the list below for acceptable IOTA emergency ballast / LED retrofit combination information. Complete product specifications can be found online at www.iotaengineering.com.

Manufacturer/Model #	Description	Certification ¹	IOTA Ballast Solution							
			I-320	I-160	I-162 ²	ISL-54	ISL-540	ISD	I-42	I-420
ATG										
T81D12	T8 16W (4 ft)	Listed	VC*	BC	---	YES	YES	VC*	---	---
GE										
LED8ET8/G/2/	T8 8W (2 ft)	Listed	VC	YES	YES	YES	YES	VC	---	---
LED9ET8/2/	T8 9W (2 ft)	Listed	VC	YES	YES	YES	YES	VC	---	---
LED11ET8/G/3/	T8 11W (3 ft)	Listed	VC	YES	YES	YES	YES	VC	---	---
LED12ET8/3/	T8 12W (3 ft)	Listed	VC	YES	YES	YES	YES	VC	---	---
LED12ET8/4/	T8 12W (4 ft)	Listed	VC	YES	YES	YES	YES	VC	---	---
LED12ET8/G/4/	T8 12W (4 ft)	Listed	VC	YES	YES	YES	YES	VC	---	---
LED12G24Q-V/	12W Compact	Listed	VC	YES	YES	YES	YES	VC	VC	VC
LED15ET8/G/4/	T8 15W (4 ft)	Listed	VC	YES	YES	YES	YES	VC	---	---
LED172G11/	17W Compact	Listed	VC	BC	YES	YES	YES	VC	VC	VC
LED18ET8/4/	T8 18W (4 ft)	Listed	VC**	YES	YES	YES	YES	VC	---	---
LED18ET8/G/4/	T8 18W (4 ft)	Listed	VC	YES	YES	YES	YES	VC	---	---
LED19GX24Q-V/	18.5W Compact	Listed	VC	BC	YES	YES	YES	VC	VC	VC
FOREST LIGHTING										
T8U435-15 thru T8U460-15	T8 15W (4 ft)	Compatible	VC	BV	YES	---	---	---	---	---
T8U441-19 thru T8U460-19	T8 19W (4 ft)	Compatible	VC	BV	YES	---	---	---	---	---
GREEN CREATIVE										
8T8/2F/840/DIR (1 or 2 lamps)	T8 8W (2 ft)	Listed	VC	BV (2 lamp only)	YES	YES	YES	VC	---	---
12T8/4F/840/DIR (1 or 2 lamps)	T8 12W (4 ft)	Listed	VC	BV	YES	YES	YES	VC	---	---
15T8/4F/840/DIR (1 or 2 lamps)	T8 15W (4 ft)	Listed	VC* / YES	BV	YES	YES	YES	VC	---	---
16T8U6G4/840/DIR (1 or 2 lamps)	T8 16W U-Bend	Listed	VC	BV	YES	YES	YES	VC	---	---
17T8G4/4F/840/DIR (1 or 2 lamps)	T8 17W 4000K (4 ft)	Listed	VC	BC	YES	YES	YES	VC	---	---
24T5HO/4F/840/DIR (1 or 2 lamps)	T5 24W (4 ft)	Listed	VC	BV	YES	YES	YES	VC	---	---
PL H 11W	4-Pin CFL 11W	Listed	VC	BC	YES	---	---	VC	---	---
PL V 11W	4-Pin CFL 11W	Listed	VC	BC	YES	---	---	VC	---	---
PLL 17W	Long Compact 17W	Listed	VC	BC	YES	YES	YES	VC	---	---
INNOVATIVE LIGHTING										
GL-T8GUL-12AN (1 lamp)	T8 18W 4000K (4 ft)	Listed	VC	BC	---	YES	YES	VC	---	---
GL-T8GUL-12AN (2 lamps)	T8 18W 4000K (4 ft)	Listed	VC	BV	YES	YES	YES	VC	---	---
MAXLITE										
L18T8DF440	T8 18W (4 ft)	Listed	VC	BC	YES	YES	YES	VC	---	---
L18T8DR440	T8 18W (4 ft)	Listed	VC	BC	YES	YES	YES	YES	---	---
MSI										
ZT84841183	T8 18W (4 ft)	Listed	VC	BC	YES	YES	YES	YES	---	---
NATURALED										
LED10T8/24FR11/835/IF	T8 10W 3500K (2 ft)	Listed	VC	BC	YES	YES	YES	VC	---	---
LED10T8/24FR11/840/IF	T8 10W 4000K (2 ft)	Listed	VC	BC	YES	YES	YES	VC	---	---
LED10T8/24FR11/850/IF	T8 10W 5000K (2 ft)	Listed	VC	BC	YES	YES	YES	VC	---	---
LED17.5T8/FR19/835/IF	T8 17.5W 3500K (4 ft)	Listed	VC	BC	YES	YES	YES	VC	---	---
LED17.5T8/FR19/840/IF	T8 17.5W 4000K (4 ft)	Listed	VC	BC	YES	YES	YES	VC	---	---
LED17.5T8/FR19/850/IF	T8 17.5W 5000K (4 ft)	Listed	VC	BC	YES	YES	YES	VC	---	---

*1 lamp operation only
**Selector Leads Open for LED18ET8/4/840

¹Certification

All LED tubes included above have been tested and confirmed as compatible with the indicated IOTA emergency ballasts. Select retrofit LED tubes have been added to the IOTA UL Listing documentation as "listed" compatible products. Retrofit LED Tubes that have not yet been added to the UL file are currently indicated as "compatible."

²I-162 Parallel Operation

Not for use with single lamp fixtures. The I-162 is designed for two-lamp parallel operation and will operate one of the lamps even if the other is removed or inoperable.

Lamp Selector Lead Key

Some IOTA emergency ballasts are equipped with Lamp Selector Leads for optimizing performance of the emergency lamp. Refer to the key below for proper status of the Lamp Selector Leads for your application. Cap unused leads separately.

- VC = Violets Connected
- VD = Violets Disconnected
- BC = Brown/Brown-White Connected
- BV = Brown/Violet Connected
- BWV = Brown-White/Violet Connected
- YES = Compatible, no selector leads present/required



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			I-320	I-160	I-162**	ISL-54	ISL-540	ISD	I-42	I-420	
PHILIPS											
9290002841 (1 or 2 lamps)	T8 14W (4 ft)	Listed	VC	BC	YES	YES	YES	VC	---	---	
9290002882 (1 or 2 lamps)	T8 16.5W (4 ft)	Listed	VC	BC	YES	YES	YES	VC	---	---	
9290011179 (1 or 2 lamps)	T8 8.5W 3000K (2 ft)	Compatible	VC	BC	YES	YES	YES	VC	---	---	
9290011180 (1 or 2 lamps)	T8 8.5W 3500K (2 ft)	Listed	VC	BC	YES	YES	YES	VC	---	---	
9290011181 (1 or 2 lamps)	T8 8.5W 4000K (2 ft)	Compatible	VC	BC	YES	YES	YES	VC	---	---	
9290011182 (1 or 2 lamps)	T8 8.5W 5000K (2 ft)	Compatible	VC	BC	YES	YES	YES	VC	---	---	
9290011183 (1 or 2 lamps)	T8 10.5W 3000K (3 ft)	Compatible	VC	BC	YES	YES	YES	VC	---	---	
9290011184 (1 or 2 lamps)	T8 10.5W 3500K (3 ft)	Listed	VC	BC	YES	YES	YES	VC	---	---	
9290011185 (1 or 2 lamps)	T8 10.5W 4000K (3 ft)	Compatible	VC	BC	YES	YES	YES	VC	---	---	
9290011186 (1 or 2 lamps)	T8 10.5W 5000K (3 ft)	Compatible	VC	BC	YES	YES	YES	VC	---	---	
9290011196 (1 or 2 lamps)	T8 U-bend 16.5W 3000K	Compatible	VC	BC	YES	YES	YES	VC	---	---	
9290011197 (1 or 2 lamps)	T8 U-bend 16.5W 3500K	Listed	VC	BC	YES	YES	YES	VC	---	---	
9290011198 (1 or 2 lamps)	T8 U-bend 16.5W 4000K	Compatible	VC	BC	YES	YES	YES	VC	---	---	
9290011199 (1 or 2 lamps)	T8 U-bend 16.5W 5000K	Compatible	VC	BC	YES	YES	YES	VC	---	---	
9290011239 (1 or 2 lamps)	T8 12W 3000K (4 ft)	Compatible	VC	BC	YES	YES	YES	VC	---	---	
9290011240 (1 or 2 lamps)	T8 12W 3500K (4 ft)	Listed	VC	BC	YES	YES	YES	VC	---	---	
9290011241 (1 or 2 lamps)	T8 12W 4000K (4 ft)	Compatible	VC	BC	YES	YES	YES	VC	---	---	
9290011242 (1 or 2 lamps)	T8 12W 5000K (4 ft)	Compatible	VC	BC	YES	YES	YES	VC	---	---	
9290011511 (1 or 2 lamps)	T8 17W 4000K (4 ft)	Compatible	VC	BC	YES	YES	YES	VC	---	---	
9290011512 (1 or 2 lamps)	T8 17W 5000K (4 ft)	Compatible	VC	BC	YES	YES	YES	VC	---	---	
9290011513 (1 or 2 lamps)	PL-L 16.5W 3000K (2 ft)	Compatible	VC	BC	YES	YES	YES	VC	---	---	
9290011514 (1 or 2 lamps)	PL-L 16.5W 3500K (2 ft)	Compatible	VC	BC	YES	YES	YES	VC	---	---	
9290011515 (1 or 2 lamps)	PL-L 16.5W 4000K (2 ft)	Compatible	VC	BC	YES	YES	YES	VC	---	---	
9290011585 (1 or 2 lamps)	T8 15W 3000K (4 ft)	Compatible	VC	BC	YES	YES	YES	VC	---	---	
9290011586 (1 or 2 lamps)	T8 15W 3500K (4 ft)	Compatible	VC	BC	YES	YES	YES	VC	---	---	
9290011587 (1 or 2 lamps)	T8 15W 4000K (4 ft)	Compatible	VC	BC	YES	YES	YES	VC	---	---	
9290011588 (1 or 2 lamps)	T8 15W 5000K (4 ft)	Compatible	VC	BC	YES	YES	YES	VC	---	---	
9290011807 (1 or 2 lamps)	4-Pin CFL 8.5W 2700K	Compatible	---	BC	---	---	---	VC	VC	VC	
9290011808 (1 or 2 lamps)	4-Pin CFL 8.5W 3000K	Compatible	---	BC	---	---	---	VC	VC	VC	
9290011809 (1 or 2 lamps)	4-Pin CFL 8.5W 3500K	Compatible	---	BC	---	---	---	VC	VC	VC	
9290011810 (1 or 2 lamps)	4-Pin CFL 8.5W 4000K	Compatible	---	BC	---	---	---	VC	VC	VC	
9290011811 (1 or 2 lamps)	4-Pin CFL 10.5W 2700K	Compatible	---	BC	---	---	---	VC	VC	VC	
9290011812 (1 or 2 lamps)	4-Pin CFL 10.5W 3000K	Compatible	---	BC	---	---	---	VC	VC	VC	
9290011813 (1 or 2 lamps)	4-Pin CFL 10.5W 3500K	Compatible	---	BC	---	---	---	VC	VC	VC	
9290011814 (1 or 2 lamps)	4-Pin CFL 10.5W 4000K	Compatible	---	BC	---	---	---	VC	VC	VC	
REVOLUTION											
UF-24-7.5-F- (30/35/40/50) -A	T8 9W (2 ft)	Compatible	VC	---	---	---	---	---	---	---	
UF-48-12-F- (30/35/40/50) -A	T8 12W (4 ft)	Compatible	VC	---	---	---	---	---	---	---	
UF-48-14-F- (30/35/40/50) -A	T8 14W (4 ft)	Compatible	VC	---	---	---	---	---	---	---	
REMPHOS RPT Total Tube											
T8-48IN-4000K	T8 15W (4 ft)	Listed	VC	BV	YES	---	---	VC	---	---	
T8-48IN-5000K	T8 15W (4 ft)	Listed	VC	BC	YES	YES*	YES*	VC*	---	---	
T5-46IN-4000K	T5 14/28W (4 ft)	Listed	VC	BV	YES	YES	YES	VC	---	---	
T5-46IN-5000K	T5 14/28W (4 ft)	Listed	VC	BC	YES	YES	YES	VC*	---	---	
SATCO											
S9232 (1 lamp)	T8 17.5W (4 ft)	Listed	VC	BC	---	YES	YES	VC	---	---	
S9232 (2 lamps)	T8 17.5W (4 ft)	Listed	YES	BWV	YES	YES	YES	VC	---	---	
SYLVANIA											
75183-1	15W (4 ft)	Listed	VC	BC	YES	YES	YES	VC	---	---	
LED15T8/L48/F/835/SUB/G5	T8 15W (4 ft)	Listed	VC	BC	YES	YES	YES	VC	---	---	