



# 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. Not all lamp/EM ballasts may be shown - latest updates can be found online at [www.iotaengineering.com/retrofit](http://www.iotaengineering.com/retrofit).

Manufacturer/Model #	Description	Certification <sup>1</sup>	IOTA Ballast Solution							
			I-320	I-160	I-162 <sup>2</sup>	ISL-54	ISL-540	ISD	I-42	I-420
<b>ATG</b>										
T81D12	T8 16W (4 ft)	Listed	VC*	BC	---	YES	YES	VC*	---	---
<b>GE</b>										
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
<b>FOREST LIGHTING</b>										
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	---	---	---	---	---
<b>GREEN CREATIVE</b>										
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	---	---
<b>INNOVATIVE LIGHTING</b>										
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	---	---
<b>KEYSTONE</b>										
KT-LED8T8-24GC-***-S	T8 8W (2 ft)	Compatible	VC	YES	YES	YES	YES	VC	---	---
KT-LED11.5T8-48GC-***-S	T8 11.5W (4 ft)	Compatible	VC	BC	YES	YES	YES	VC	---	---
KT-LED15T8-48GC-***-S	T8 15W (4 ft)	Compatible	VC	BC	YES	YES	YES	VC	---	---
KT-LED25.5T8HO-48GC-***-S	T5 25.5W (4 ft)	Compatible	VC	BV	YES	YES	YES	VC	---	---
<b>MAXLITE</b>										
L18T8DF440	T8 18W (4 ft)	Listed	VC	BC	YES	YES	YES	VC	---	---
L18T8DR440	T8 18W (4 ft)	Listed	VC	BC	YES	YES	YES	YES	---	---
<b>MSI</b>										
ZT84841183	T8 18W (4 ft)	Listed	VC	BC	YES	YES	YES	YES	---	---
<b>NATURALED</b>										
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	---	---

<sup>1</sup>Certification

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."

<sup>2</sup>I-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.

\*1 lamp operation only

\*\*Selector Leads Open for LED18ET8/4/840

**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

BV = Brown/Violet Connected

VD = Violets Disconnected

BWV = Brown-White/Violet Connected

BC = Brown/Brown-White 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	
<b>OSRAM</b>											
75183-1	T8 15W (4 ft)	Listed	VC	BC	YES	YES	YES	VC	---	---	
<b>PHILIPS</b>											
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	
<b>REVOLUTION</b>											
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	---	---	---	---	---	---	---	
<b>REMPHOS RPT Total Tube</b>											
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*	---	---	
<b>SATCO</b>											
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	---	---	
<b>SYLVANIA</b>											
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	---	---	