

Field-Adjustable T8 LED U-Ben T8-L23-G13U6-16HE-PC950A

This field-adjustable LED tube from ConNexTube® enables luminaire manufacturers or electrical contractors to upgrade linear fluorescent fixtures to LED lighting in a few minutes, either in the factory or field installation. And further, people can field-adjust the light levels of luminaires easily by using our patented ConnSet® technology. This versatility allows OEMs and distributors to meet orders faster and more confidently while reducing costs and inventory.

These LED tubes are designed to operate as part of ConNexTube Type-C lighting systems, which feature Dim-to-Off capability and 12V-always-On auxiliary power to provide lighting control and wireless connectivity for LED fixtures at the lower cost. That results in a simpler, less expensive but powerful LED fixture that can enable every fixture to become a wireless node. The resulting advantages enable Networked Lighting Control with greater installation flexibility, good scalability, and optimized labor installation cost, suitable for many applications but particularly hard-to-wire applications.



SPECIFICATIONS

General	
Lamp Size	T8 LED U-Ben
Lamp Length	2-Ft / 6-inch
Lamp Base	G13 (Medium Bi-Pin)
Lamp Material	Polycarbonate (PC)
UL Type	Type C

Light Technical	
Output Lumens (Adj.)	2600 lm ~ 1200 lm
Bare Lamp Efficacy ^{Note 2}	160 lm/W
CCT (Nom)	5000 K
CRI (Nom)	≥ 90
Beam Angle (Nom)	> 140°

Electrical Technical	
System Lamp Power (Adj.) ^{Note 1}	18W ~ 8.5W
System Input Voltage	120 ~ 347Vac
Power Factor	> 0.95
THD	< 15%
Dimming Range	100% ~ 1%

Safety and Reliability	
Anti-arcing Protection	Yes
Anti-shock Protection	Yes
RoHS Compliant	Yes
Lamp Category	HE
TM-21 Reported L70	> 60,000 hrs

UL / cUL Listed	FCC Compliant	DLC Qualified
UL1993, UL1598C	FCC Part15 Class A Non-consumer	DLC 5.1

Note 1: System lamp power measured at system input, inclusive of Type C driver losses.

Note 2: Bare lamp efficacy measured at lamp input only, exclusive of Type C driver losses.

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Field Adjustable Light Output

LED Tube Model No.	LED Ballast Model No.	CONNSET® Model No.	Lamp Lumen (per lamp)	Number of Lamps	System Input Power	System Output Lumens	System Efficacy (lm/W)	Power Factor
T8-L23-G13U6-16HE-PC950A	2-Lamps Ballast: LB-WLD0-035-2P16	Default	2600 lm	2	36.0 W	5,200 lm	144 LPW	0.98
		CS1-473	2450 lm	2	33.5 W	4,900 lm	146 LPW	0.98
		CS1-333	2300 lm	2	31.1 W	4,600 lm	148 LPW	0.98
		CS1-183	2100 lm	2	28.5 W	4,200 lm	147 LPW	0.98
		CS1-133	1900 lm	2	25.7 W	3,800 lm	148 LPW	0.97
		CS1-103	1700 lm	2	22.8 W	3,400 lm	149 LPW	0.97
		CS1-822	1600 lm	2	21.7 W	3,200 lm	147 LPW	0.96
		CS1-622	1450 lm	2	20.4 W	2,900 lm	142 LPW	0.95

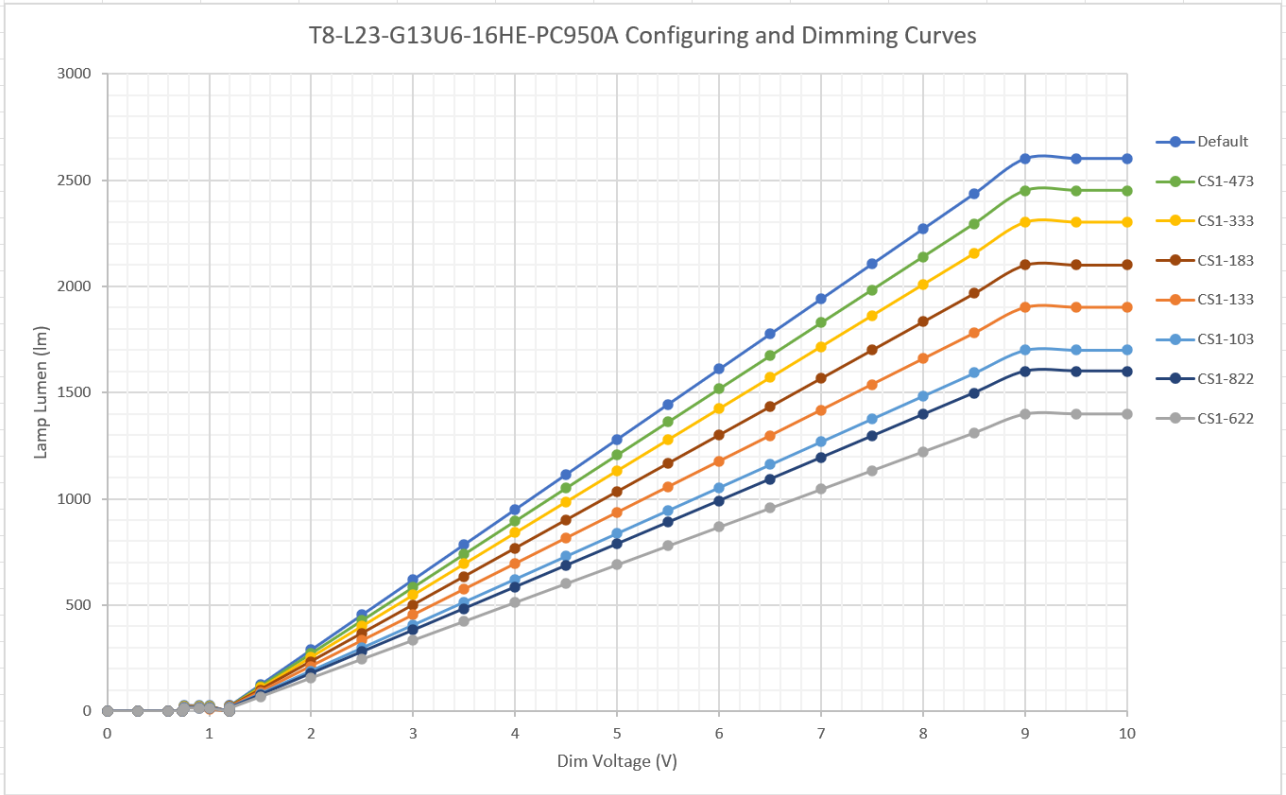
Notes: For the full configuration matrix, contact ConNexTube or your local representative.

De-lamping Performance

Ballasts	Num. of Lamp	System Output Lumens	System Input Power	#1 Lamp Lumen	#2 Lamp Lumen
2-lamps Ballast	2	5,200 lm	36 W	2600 lm	2600 lm
	1	2,600 lm	20 W	2600 lm	0

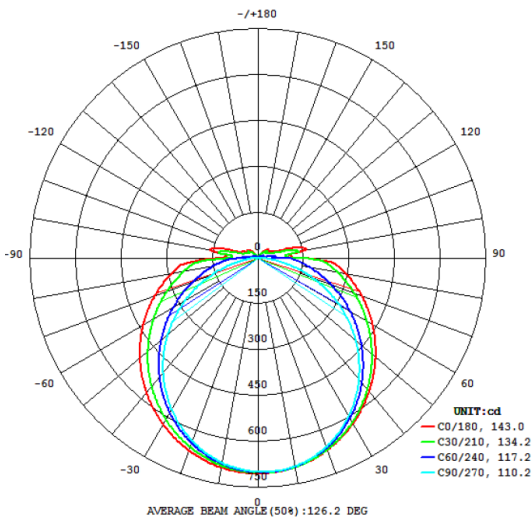
Notes: Intended for use within ConNexTube Type-C lighting systems.

Dimming Curves

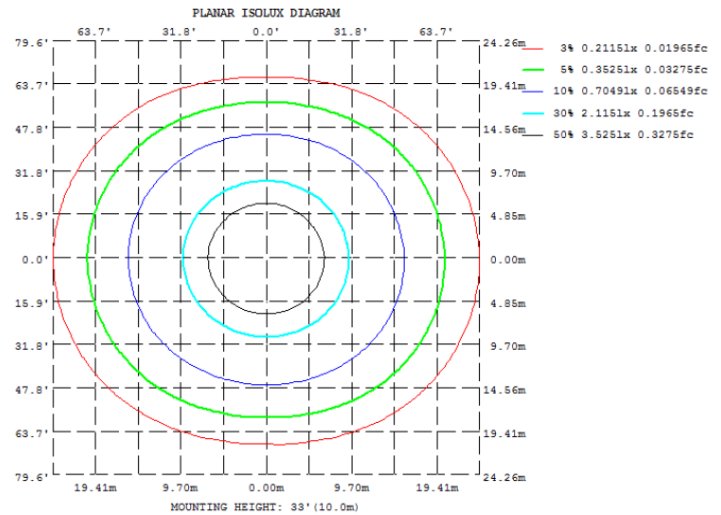


Notes: Curves shown under ConNexTube Type-C system configuration.

Zonal Lumen Distribution

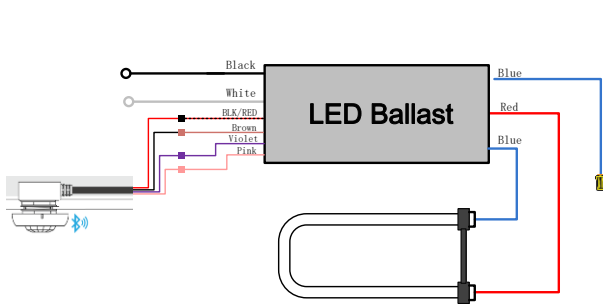


ISOLUX Plot

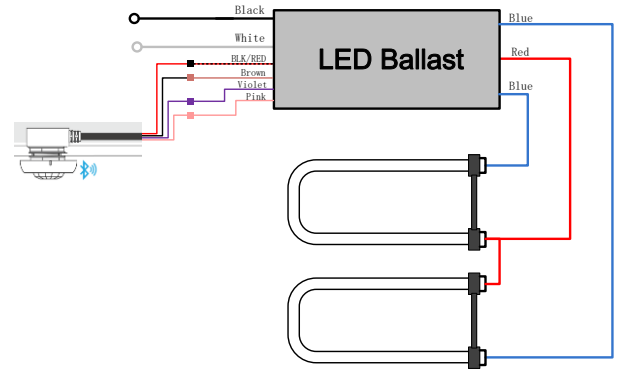


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Wiring Diagrams (Representative wiring diagrams for ConNexTube Type-C systems)



1-lamp Wiring Diagram



2-lamp Wiring Diagram

Notes: Disconnect power before installation.

Product Naming

T8 – L23 – G13U6 - 16HE – PC950A

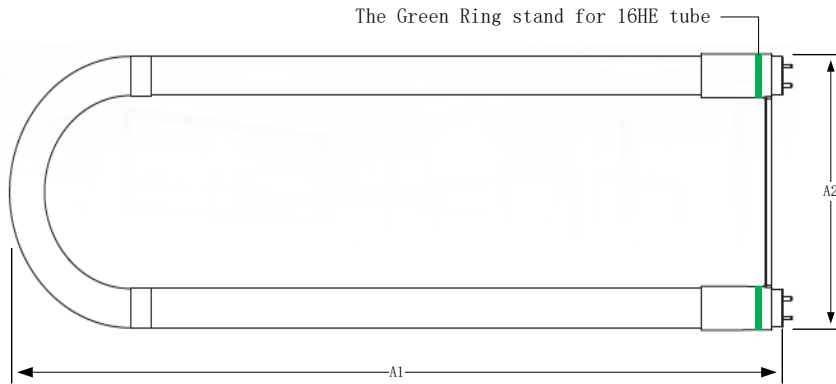
① ② ③ ④ ⑤ ⑥ ⑦ ⑧

Number	Meaning	Options
①	Lamp Size	T5 stands for T5 tube lamp; T8 stands for T8 tube lamp; T12 stands for T12 tube lamp
②	Lamp Length	L23 stands for 22 ½ inch; L46 stands for 46 inch; L48 stands for 48 inch;
③	Lamp Base	G5MNB stands for G5 Miniature Bi-Pin; G13MB stands for G13 Medium Bi-Pin; G13U6 stands for G13 U-Ben 6 inch; R17DC stands for Recessed Double Contact
④	Light Output	16HE stands for 16W High Efficiency; 26HO stands for 26W High Output
⑤	Tube Material	GL stands for Glass tube; PC stands for Polycarbonate (PC)
⑥	CRI	8 stands for CRI>80; 9 stands for CRI>90
⑦	CCT	35 stands for CCT 3500K; 40 stands for CCT 4000K; 50 stands for CCT 5000K
⑧	Product Version	Letter A, B, C stands for product version

Notes: 16HE / 26HO refers to the nominal bare lamp input power

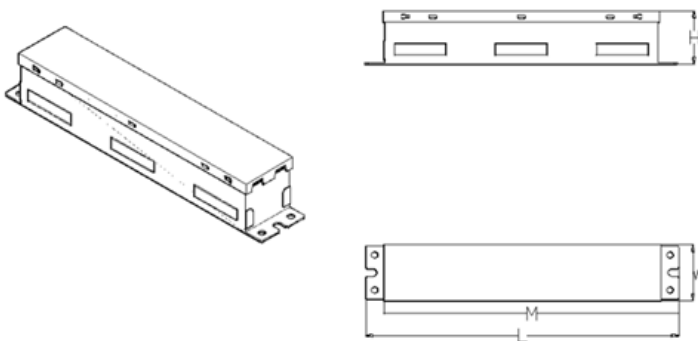
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LED Tube Profile and Installation Dimensions



Items	Dimension
A1	22 ½ inch
A2	6 inch

External LED Ballast (Type C Driver) Mechanical Profile



Dimension	Unit (mm)	Unit (inch)
Length (L)	241.3	9.5
Width (W)	43.2	1.7
Height (H)	30.5	1.2
Mounting (M)	229.0	9.0

