

Field-Adjustable T5 LED Tube T5-L46-G5MNB-26HO-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	T5 LED Tube
Lamp Length	4-Foot
Lamp Base	G5 Miniature Bi-Pin
Lamp Material	Polycarbonate (PC)
UL Type	Type C

Light Technical	
Output Lumens (Adj.)	4300 lm ~ 1500 lm
Bare Lamp Efficacy ^{Note 2}	163 lm/W
CCT (Nom)	5000 K
CRI (Nom)	≥ 90
Beam Angle (Nom)	> 150°

Electrical Technical	
System Lamp Power (Adj.) ^{Note 1}	28W ~ 11W
System Input Voltage	120 ~ 347Vac
Power Factor	> 0.95
THD	< 10%
Dimming Range	100% ~ 1%

Safety and Reliability	
Anti-arcing Protection	Yes
Anti-shock Protection	Yes
RoHS Compliant	Yes
Lamp Category	HO
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
T5-L46-G5MNB-26HO-PC950A	4-Lamps Ballast: LB-WLD0-105-4P26	Default	4300 lm	4	112.0 W	17,200 lm	153 LPW	0.99
		CS1-683	4000 lm	4	104 W	16,000 lm	154 LPW	0.99
		CS1-473	3800 lm	4	98.0 W	15,200 lm	155 LPW	0.99
		CS1-333	3500 lm	4	90.3 W	14,000 lm	155 LPW	0.98
		CS1-203	3200 lm	4	81.6 W	12,800 lm	157 LPW	0.98
		CS1-163	3000 lm	4	75.9 W	12,000 lm	158 LPW	0.98
		CS1-143	2800 lm	4	71.3 W	11,200 lm	157 LPW	0.97
		CS1-103	2500 lm	4	63.3 W	10,000 lm	158 LPW	0.97
		CS1-822	2300 lm	4	57.5 W	9,200 lm	160 LPW	0.96
		CS1-682	2000 lm	4	51.6 W	8,000 lm	155 LPW	0.95
		CS1-562	1800 lm	4	48.9 W	7,200 lm	147 LPW	0.95
	CS1-472	1600 lm	4	43.8 W	6,400 lm	146 LPW	0.94	
	3-Lamps Ballast: LB-WLD0-080-3P26	Default	4300 lm	3	84.0 W	12,900 lm	153 LPW	0.99
		CS1-823	3900 lm	3	76.0 W	11,700 lm	154 LPW	0.98
		CS1-563	3600 lm	3	69.2 W	10,800 lm	156 LPW	0.98
		CS1-393	3400 lm	3	65.4 W	10,200 lm	156 LPW	0.98
		CS1-273	3100 lm	3	58.9 W	9,300 lm	158 LPW	0.97
		CS1-203	2800 lm	3	53.2 W	8,400 lm	158 LPW	0.97
		CS1-163	2500 lm	3	48.1 W	7,500 lm	156 LPW	0.96
		CS1-133	2300 lm	3	43.7 W	6,900 lm	158 LPW	0.95
		CS1-103	2000 lm	3	38.5 W	6,000 lm	156 LPW	0.94
		CS1-822	1700 lm	3	34.0 W	5,100 lm	150 LPW	0.93
CS1-562		1400 lm	3	29.0 W	4,200 lm	145 LPW	0.91	

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

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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 Efficacy (lm/W)	System Lumens Efficacy	Power Factor
T5-L46-G5MNB-26HO-PC950A	2-Lamps Ballast: LB-WLD0-055-2P26	Default	4300 lm	2	57.3 W	8,600 lm	150 LPW	0.99
		CS1-683	4000 lm	2	53.0 W	8,000 lm	151 LPW	0.99
		CS1-473	3800 lm	2	49.7 W	7,600 lm	153 LPW	0.98
		CS1-333	3500 lm	2	45.5 W	7,000 lm	154 LPW	0.97
		CS1-203	3200 lm	2	40.8 W	6,400 lm	154 LPW	0.97
		CS1-163	3000 lm	2	38.7 W	6,000 lm	155 LPW	0.97
		CS1-143	2800 lm	2	35.6 W	5,600 lm	157 LPW	0.97
		CS1-103	2500 lm	2	31.6 W	5,000 lm	158 LPW	0.96
		CS1-822	2300 lm	2	28.8 W	4,600 lm	160 LPW	0.96
		CS1-682	2000 lm	2	26.1 W	4,000 lm	153 LPW	0.95
		CS1-562	1800 lm	2	24.5 W	3,600 lm	147 LPW	0.94
		CS1-472	1600 lm	2	22.0 W	3,200 lm	146 LPW	0.93

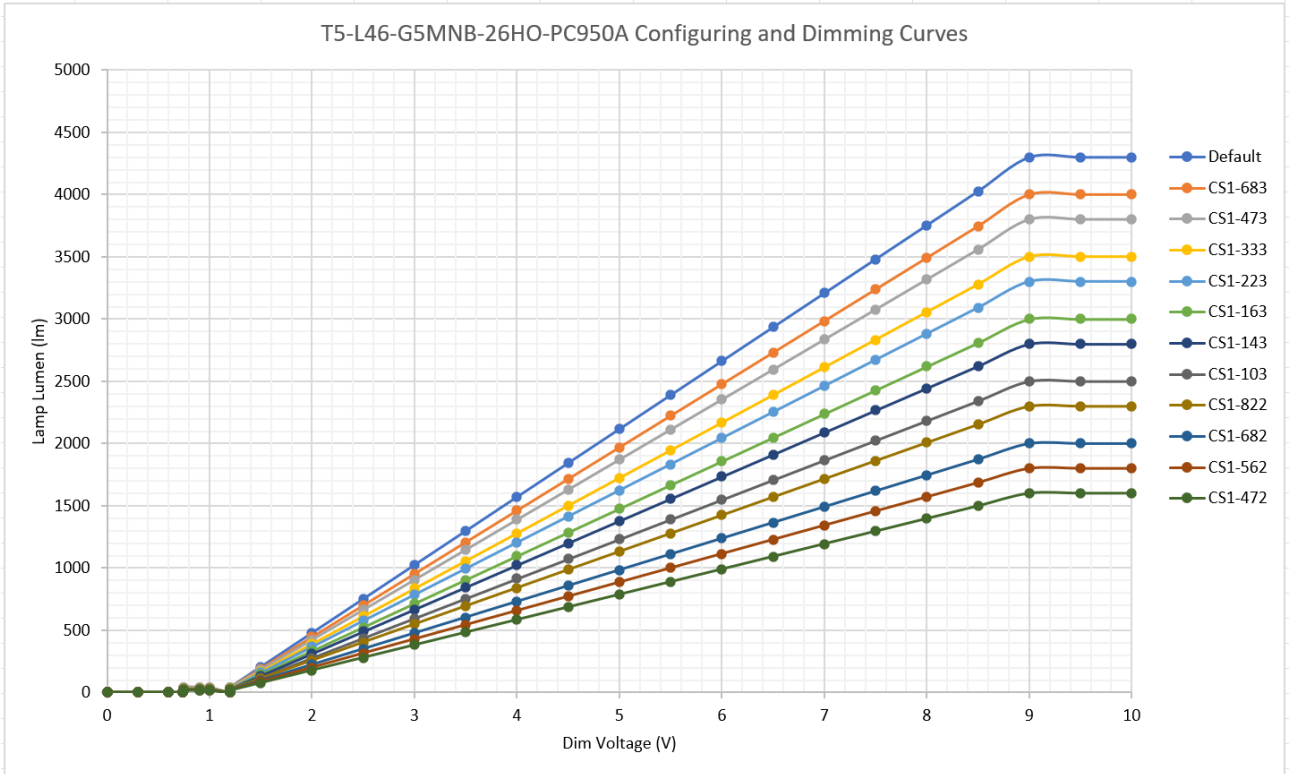
Notes: For the full configuration matrix, contact ConNexTube or your local representative.

De-lamping Performance

Ballasts	Num. of Lamp	System Output Lumens	System Input Power	#1 Lamp Lumen	#2 Lamp Lumen	#3 Lamp Lumen	#4 Lamp Lumen
4-lamps Ballast	4	17,200 lm	112 W	4300 lm	4300 lm	4300 lm	4300 lm
	3	12,900 lm	84 W	4300 lm	4300 lm	4300 lm	0
	2	8,600 lm	57 W	4300 lm	4300 lm	0	0
	1	4,300 lm	30 W	4300 lm	0	0	0
3-lamps Ballast	3	12,900 lm	84 W	4300 lm	4300 lm	4300 lm	NA
	2	8,600 lm	57 W	4300 lm	4300 lm	0	NA
	1	4,300 lm	30 W	4300 lm	0	0	NA
2-lamps Ballast	2	8,600 lm	57 W	4300 lm	4300 lm	NA	NA
	1	4,300 lm	30 W	4300 lm	0	NA	NA

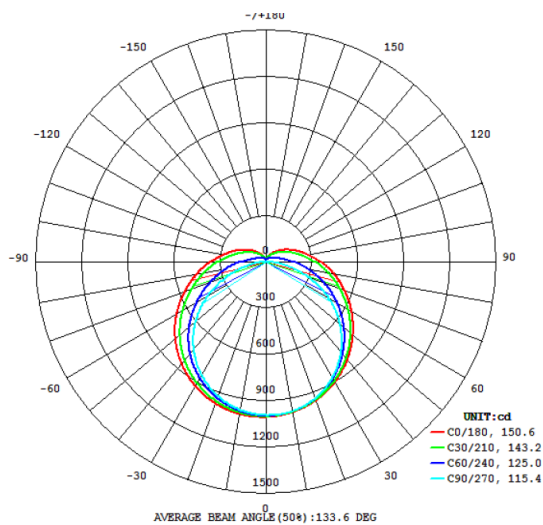
Notes: Intended for use within ConNexTube Type-C lighting systems.

Dimming Curves

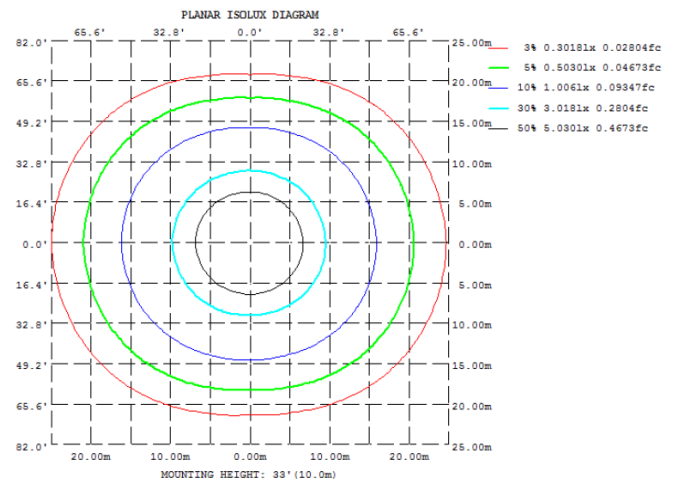


Notes: Curves shown under ConNexTube Type-C system configuration.

Zonal Lumen Distribution

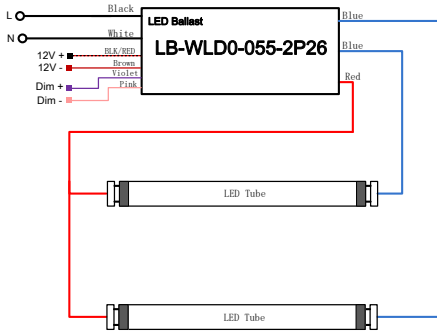


ISOLUX Plot

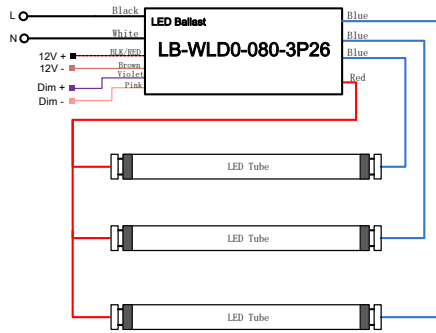


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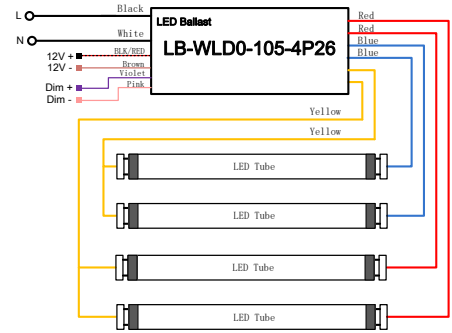
Wiring Diagrams (Representative wiring diagrams for ConNexTube Type-C systems)



2-lamp LED Ballast



3-lamp LED Ballast



4-lamp LED Ballast

Notes: Disconnect power before installation.

Product Naming

T5 - L46 - G5MNB - 26HO - PC950A

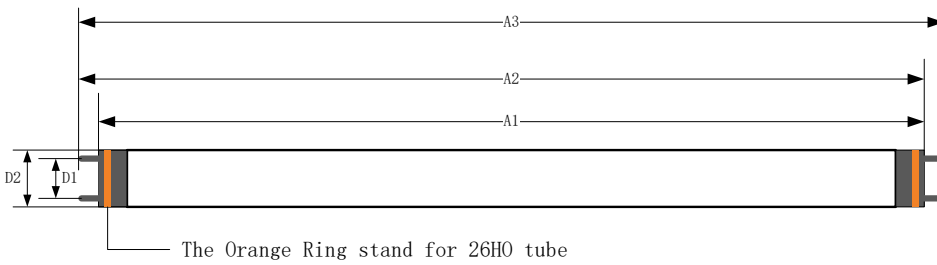
① ② ③ ④ ⑤ ⑥ ⑦ ⑧

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; FA8SG stands for FA8 Single Pin; 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

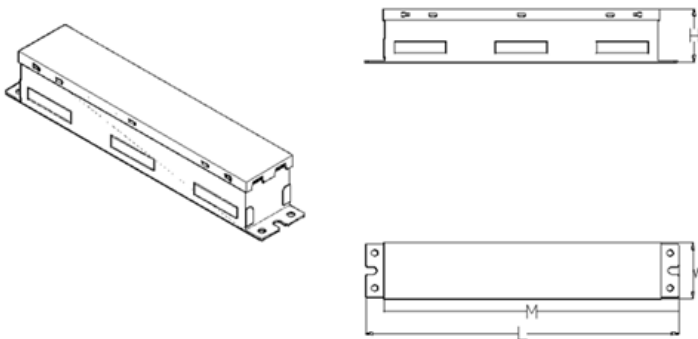
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LED Tube Profile and Installation Dimensions



Items	Dimension (mm)
A1	1168
A2	1155
A3	1148
D1	5.0
D2	19.0

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

