

Glass T8, Type B - Single or Double Ended



PROJECT:

DATE:

TYPE:

PREPARED BY:



KEY FEATURES

- Replacement for conventional fluorescent T8 and T12 linear tubes
- Integral driver enables lamp to be wired directly to line voltage without need for an external driver or ballast
- Single-ended and double-ended wiring method
- Works with non-shunted sockets and shunted sockets
- Approximately 50% more energy efficient when compared to Fluorescent T8 Lamps
- Full glass housing: no aging, no yellowing, no bending

4 ft & 2 ft, LED T8 Type B 120-277V, Glass



PERFORMANCE

Catalog Number	Nominal Length	Equivalency	Input Wattage	Lumens	Efficacy	Color Temp	Beam Angle	L70 Lifespan	DLC ID
T8-8-48G-835-SD-BYP	4 ft	32W T8	8.5W	1,600 lm	188 lm/W	3500K	210°	50,000 hrs	S-WNBMNK
T8-8-48G-840-SD-BYP			8.5W	1,650 lm	194 lm/W	4000K			S-00GZN2
T8-8-48G-850-SD-BYP			8.5W	1,650 lm	194 lm/W	5000K			S-6NR8L7
T8-9.5-48G-830-SD-BYP/2			9.5W	1,550 lm	163 lm/W	3000K	230°		S-E5UXHI
T8-9.5-48G-835-SD-BYP/2			9.5W	1,550 lm	163 lm/W	3500K			S-I8BYLH
T8-9.5-48G-840-SD-BYP/2			9.5W	1,650 lm	174 lm/W	4000K			S-CTKWUQ
T8-9.5-48G-850-SD-BYP/2			9.5W	1,650 lm	174 lm/W	5000K			S-K37SEL
T8-10.5-48G-835-SD-BYP			10.5W	1,700 lm	160 lm/W	3500K			PLO4YVNCRS34
T8-10.5-48G-840-SD-BYP			10.5W	1,700 lm	160 lm/W	4000K			PLJCU2N7A1YY
T8-10.5-48G-850-SD-BYP			10.5W	1,700 lm	160 lm/W	5000K			PLLRSQSF99V5
T8-14-48G-830-SD-BYP			14W	1,700 lm	121 lm/W	3000K			PO5EJH1X
T8-14-48G-835-SD-BYP			14W	1,700 lm	121 lm/W	3500K			P228KRZ1
T8-14-48G-840-SD-BYP			14W	1,800 lm	129 lm/W	4000K	PNA89F5K		
T8-14-48G-850-SD-BYP			14W	1,800 lm	129 lm/W	5000K	P18N3BUA		
T8-13-48G-830-SD-BYP			13W	2,100 lm	162 lm/W	3000K	S-4R2IZL		

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PERFORMANCE (CONTINUED)

Catalog Number	Nominal Length	Equivalency	Input Wattage	Lumens	Efficacy	Color Temp	Beam Angle	L70 Lifespan	DLC ID
T8-13-48G-835-SD-BYP	4 ft	32WT8	13W	2,100 lm	162 lm/W	3500K	230°	50,000 hrs	S-19AKN1
T8-13-48G-840-SD-BYP			13W	2,200 lm	169 lm/W	4000K			S-OHXPCV
T8-13-48G-850-SD-BYP			13W	2,200 lm	169 lm/W	5000K			S-N7JWCA
T8-17-48G-830-SD-BYP			17W	2,100 lm	124 lm/W	3000K			P8NHRT2N
T8-17-48G-835-SD-BYP			17W	2,100 lm	124 lm/W	3500K			P6BANSI5
T8-17-48G-840-SD-BYP			17W	2,200 lm	129 lm/W	4000K			PLZWAF57
T8-17-48G-850-SD-BYP			17W	2,200 lm	129 lm/W	5000K			PRMKONCV
T8-17.5-48G-830-SD-BYP			17.5W	2,300 lm	131 lm/W	3000K			PO6FKUTW
T8-17.5-48G-835-SD-BYP			17.5W	2,400 lm	137 lm/W	3500K			PG7NBLAV
T8-17.5-48G-840-SD-BYP			17.5W	2,500 lm	143 lm/W	4000K			P36AOL1L
T8-17.5-48G-850-SD-BYP			17.5W	2,500 lm	143 lm/W	5000K			P3GJ2TYY
T8-9-24G-830-SD-BYP			2 ft	17WT8	9W	1,100 lm			122 lm/W
T8-9-24G-835-SD-BYP	9W	1,100 lm			122 lm/W	3500K	PTNK0MM7		
T8-9-24G-840-SD-BYP	9W	1,150 lm			128 lm/W	4000K	PROTUT1T		
T8-9-24G-850-SD-BYP	9W	1,150 lm			128 lm/W	5000K	PW8M78VM		

TECHNICAL SPECIFICATIONS

CONSTRUCTION

Product Type
LED Linear T8

Length (Nominal)
2ft & 4ft

Bulb Shape
T8

Enclosure Material
Glass

Endcap Material
Plastic

Base Type
G13

Lens Finish
Frosted

Beam Angle
230°

ELECTRICAL

Dimmable
Yes, but not recommended for dimming applications.

THD
<20%

Power Factor
>0.9

Input Voltage
120-277V

Operating Frequency
50/60 Hz

Operating Temperature
-4°F to 113°F (-20°C to 45°C)

TECHNICAL SPECIFICATIONS (CONTINUED)

COMPLIANCE

NSF Listing

Meets NSF/ANSI standards for use in Food Zone (non-contact), Splash, and Non-Food Zones. Tube guard required in open fixtures.

RoHS

Mercury and UV free. RoHS-compliant components.

FCC

Complies with Part 15 of the FCC Rules.

DLC Listed

This product is on the Design Lights Consortium (DLC) Qualified Products List and is eligible for rebates from DLC Member Utilities. Designed to meet DLC 5.1 requirements.

Listing

UL Classified, UL Recognized

Environment

Suitable for use in dry and damp environments.

Fixture Rating

Suitable for use in enclosed fixtures

California Energy Commission (CEC) Status

Lawful for sales in California

INSTALLATION

Installation Method

UL Type B, Ballast Bypass - directly wire to line voltage

Wiring Method

Single or Double ended wiring

Compatible Sockets

Can be installed on shunted (double-ended) or non-shunted sockets (single-ended)

LED CHARACTERISTICS

Beam Angle

210° Color Temperature
3000K*, 3500K, 4000K, 5000K

**3000K available on select models*

Color Accuracy (CRI)

>80

R9 Value

High color performance with R9 greater than 0

Color Consistency

<5-step MacAdam Ellipse binning to achieve consistent fixture-to-fixture color

Color Stability

LED color temperature is warranted to shift no more than 200K in color temperature over a 5-year period.

Color Uniformity

RAB's range of Correlated Color Temperature follows the guidelines of the American National Standard for Specifications for the Chromaticity of Solid State Lighting (SSL) Products, ANSI C78.377-2017.

OTHER

Warranty

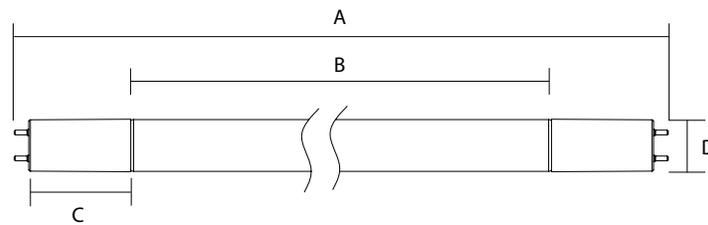
RAB warrants that our LED products will be free from defects in materials and workmanship for a period of five (5) years from the date of delivery to the end user, including coverage of light output, color stability, driver performance and fixture finish.

RAB's warranty is subject to all terms and conditions found at rablighting.com/warranty.

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DIMENSIONS



Catalog Number	A	B	C	D
T8-14-48G-8XX-SD-BYP	47 3/16"	43 1/4"	4 15/16"	1"
T8-17-48G-8XX-SD-BYP	47 3/16"	43 1/4"	4 15/16"	1"
T8-9-24G-8XX-SD-BYP	23 3/16"	19 1/4"	4 15/16"	1"
T8-10.5-48G-8XX-SD-BYP	47 3/16"	43 1/4"	4 15/16"	1"
T8-17.5-48G-8XX-SD-BYP	47 3/4"	45"	2 3/4"	1"
T8-9.5-48G-8XX-SD-BYP/2	47 3/4"	45"	2 3/4"	1 1/8"
T8-13-48G-8XX-SD-BYP	47 3/4"	45 1/2"	2 1/4"	1"

ORDERING INFO

Catalog Number	Model Number (DLC/Energy Star)	UPC	Case Pack
T8-14-48G-830-SD-BYP	T8-14-48G-830-SD-BYP	019813751795	25
T8-14-48G-835-SD-BYP	T8-14-48G-835-SD-BYP	019813751801	25
T8-14-48G-840-SD-BYP	T8-14-48G-840-SD-BYP	019813751818	25
T8-14-48G-850-SD-BYP	T8-14-48G-850-SD-BYP	019813751825	25
T8-17-48G-830-SD-BYP	T8-17-48G-830-SD-BYP	019813751832	25
T8-17-48G-835-SD-BYP	T8-17-48G-835-SD-BYP	019813751849	25
T8-17-48G-840-SD-BYP	T8-17-48G-840-SD-BYP	019813751856	25
T8-17-48G-850-SD-BYP	T8-17-48G-850-SD-BYP	019813751863	25
T8-9-24G-830-SD-BYP	T8-9-24G-830-SD-BYP	019813751757	25
T8-9-24G-835-SD-BYP	T8-9-24G-835-SD-BYP	019813751764	25
T8-9-24G-840-SD-BYP	T8-9-24G-840-SD-BYP	019813751771	25
T8-9-24G-850-SD-BYP	T8-9-24G-850-SD-BYP	019813751788	25
T8-10.5-48G-835-SD-BYP	T10046	019813833361	25
T8-10.5-48G-840-SD-BYP	T10047	019813833378	25
T8-10.5-48G-850-SD-BYP	T10048	019813833385	25

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ORDERING INFO (CONTINUED)

Catalog Number	Model Number (DLC/Energy Star)	UPC	Case Pack
T8-17.5-48G-830-SD-BYP	T10313(T8-17.5-48G-830-SD-BYP)	192552004893	25
T8-17.5-48G-835-SD-BYP	T10314(T8-17.5-48G-835-SD-BYP)	192552004909	25
T8-17.5-48G-840-SD-BYP	T10315(T8-17.5-48G-840-SD-BYP)	192552004916	25
T8-17.5-48G-850-SD-BYP	T10316(T8-17.5-48G-850-SD-BYP)	192552004923	25
T8-9.5-48G-830-SD-BYP/2	T20073(T8-9.5-48G-830-SD-BYP/2)	192552004855	25
T8-9.5-48G-835-SD-BYP/2	T20074(T8-9.5-48G-835-SD-BYP/2)	192552004862	25
T8-9.5-48G-840-SD-BYP/2	T20075(T8-9.5-48G-840-SD-BYP/2)	192552004879	25
T8-9.5-48G-850-SD-BYP/2	T20076(T8-9.5-48G-850-SD-BYP/2)	192552004886	25
T8-13-48G-830-SD-BYP	T20077(T8-13-48G-830-SD-BYP)	192552004930	25
T8-13-48G-835-SD-BYP	T20078(T8-13-48G-835-SD-BYP)	192552004947	25
T8-13-48G-840-SD-BYP	T20079(T8-13-48G-840-SD-BYP)	192552004954	25
T8-13-48G-850-SD-BYP	T20080(T8-13-48G-850-SD-BYP)	192552004961	25

ORDERING MATRIX

Family	Wattage	Length	Material	CRI/Color Temp	Wiring Method	Installation Type	Generation
T8	-	-	G	-	SD	BYP	
	8 8.5W 9 9W 9.5 9.5W 10.5 10.5W 12 12W 13 13W 14 14W 17 17W 17.5 17.5W	24 2 ft 48 4 ft	G Glass	830 80 CRI, 3000K 835 80 CRI, 3500K 840 80 CRI, 4000K 850 80 CRI, 5000K	SD Single/ Double Ended	BYP Type B, Ballast Bypass	Blank Generation 1 /2 Generation 2*

Notes

2 ft only available in 9W

4 ft only available in 9.5W, 10.5W, 12W, 13W, 14W, 17W, 17.5W

*Gen 2 is 9.5W 4 ft only