

Shatter-Resistant, Field-Adjustable T8 Hybrid



4 ft, 3 ft, 2 ft T8 Hybrid UL Type A/B,
CCT-Adjustable, PET Shatter-Resistant Coating


GLASS
COATED


SINGLE-DOUBLE
ENDED


FIELD
ADJUSTABLE


80 CRI


50,000
HOURS


120-277V


DAMP
RATED


OPEN
FIXTURE
RATED


HYBRID

PROJECT: _____

DATE: _____

TYPE: _____

PREPARED BY: _____



KEY FEATURES

- Direct replacement for fluorescent lamps: F32T8/32W, F32T8/30W, F32T8/28W, F32T8/25W
- TYPE A - Plug-and-play compatible with most common commercial T8 electronic ballasts
- TYPE B - Can be wired directly to line voltage 120-277V. Can be wired using single- or double-ended method
- Shatter-resistant PET coating makes these tubes perfect for demanding applications
- 5 color temperatures in 1 SKU (3000/3500/4000/5000/6500K)

PERFORMANCE

Catalog Number	Length	Wattage Equivalency	Input Wattage	Lumens	Efficacy	Input Voltage	Beam Angle	Color Temperature	CRI	L70 Lifespan	Base Type	DLC ID
T8-7.5-24GC-8CCT-HYB	2 ft	17W Fluorescent	7.5W	1,150 lm	153 lm/W	120-277V	220°	Field-adjustable via dip switch 3000/3500/4000/ 5000/6500K	80	50,000 Hrs	G13	CS
T8-11-36GC-8CCT-HYB	3 ft	25W Fluorescent	11W	1,500 lm	136 lm/W							CS
T8-10.5-48GC-8CCT-HYB	4 ft	32W Fluorescent	10.5W	1,650 lm	157 lm/W							CS
T8-12-48GC-8CCT-HYB	4 ft	32W Fluorescent	12W	1,650 lm	138 lm/W							CS
T8-15-48GC-8CCT-HYB	4 ft	32W Fluorescent	15W	2,100 lm	140 lm/W							CS

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Catalog Number	Lamp Wattage Type B (W)	System Wattage with Ballast Type A (W)	CCT (K)	Lumens (lm)	Efficacy (lm/W)	Equivalency Wattage (W)
T8-10.5-48GC-8CCT-HYB	10.5W	13.4W	3000K	1,677	115	32W Fluorescent
			3500K	1,708	117	
			4000K	1,737	119	
			5000K	1,758	120	
			6500K	1,742	119	
T8-12-48GC-8CCT-HYB	11.3W	12.9W	3000K	1,600	141	32W Fluorescent
			3500K	1,647	146	
			4000K	1,663	147	
			5000K	1,679	148	
			6500K	1,609	142	
T8-15-48GC-8CCT-HYB	14.6W	16.5W	3000K	2,124	145	32W Fluorescent
			3500K	2,186	149	
			4000K	2,200	150	
			5000K	2,218	151	
			6500K	2,133	146	
T8-11-36GC-8CCT-HYB	10.8W	12.2W	3000K	1,527	141	25W Fluorescent
			3500K	1,580	146	
			4000K	1,612	149	
			5000K	1,636	151	
			6500K	1,612	149	
T8-7.5-24GC-8CCT-HYB	7.7W	8.8W	3000K	1,081	140	17W Fluorescent
			3500K	1,111	144	
			4000K	1,133	147	
			5000K	1,146	149	
			6500K	1,137	148	

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TECHNICAL SPECIFICATIONS

CONSTRUCTION

Product Type T8 UL Type A/B - PET Shatter-Resistant	Endcap Material Plastic
Length 2 ft, 3 ft, 4 ft	Finish Frosted white lens
Shape T8	
Enclosure Material Shatter-resistant PET Coated Glass	

INSTALLATION

Installation Method UL Type A+B, Hybrid
Base Type G13

ELECTRICAL

Dimmable Type B: Triac Dimming @ 120V only with compatible dimmers Type A: 0-10V dimming with compatible dimmable fluorescent ballast and 0-10V Dimmer
Driver Constant Power 120-277V; 50/60 Hz
Input Voltage 120-277V
Operating Frequency 50/60 Hz
Operating Temperature -4°F to 113°F (-20°C to 45°C)
THD ≤25%
Power Factor >0.9
Flicker <40%

LED CHARACTERISTICS

Beam Angle 220°
Color Temperature Field-adjustable via dip switch 3000/3500/4000/5000/6500K
Color Accuracy (CRI) >80
R9 Value High color performance with R9 greater than 0
Color Consistency <7-step MacAdam Ellipse binning to achieve consistent fixture-to-fixture color
Color Stability LED color temperature is warrantied 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.

COMPLIANCE

Listings UL Listed, UL Classified
Environment Suitable for use indoors in dry and damp environments.
Fixture Rating Suitable for use in open fixtures
DLC 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.
California Energy Commission (CEC) Status Lawful for Sale in California
NSF Listed 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.

OTHER

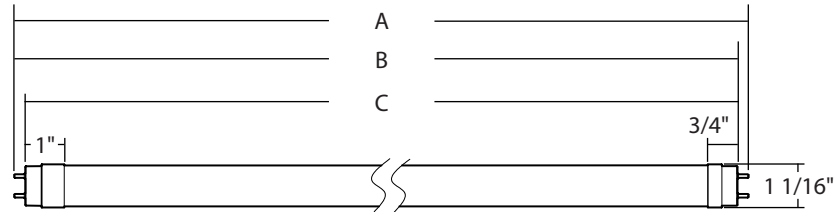
Warranty RAB warrants that our LED products will be free from defects in materials and workmanship for a period of five (5) years from the date of delivery to the end user, including coverage of light output, color stability, driver performance and fixture finish. RAB's warranty is subject to all terms and conditions found at rablighting.com/warranty .
Note All values are typical (<i>tolerance +/- 10%</i>)

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DIMENSIONS

T8 Hybrid field-adjustable tube



Catalog Number	Length	Weight	A	B	C
T8-7.5-24GC-8CCT-HYB	2 ft	0.26 lb	23 3/4"	23 7/16"	23 3/16"
T8-11-36GC-8CCT-HYB	3 ft	0.35 lb	35 3/4"	35 7/16"	35 3/16"
T8-10.5-48GC-8CCT-HYB	4 ft	0.41 lb	47 5/16"	50 4/16"	51 3/16"
T8-12-48GC-8CCT-HYB					
T8-15-48GC-8CCT-HYB					

ORDERING INFO

Catalog Number	Model Number	UPC	Case Pack
T8-7.5-24GC-8CCT-HYB	T8-7.5-24GC-8CCT-HYB	192552045582	25
T8-11-36GC-8CCT-HYB	T8-11-36GC-8CCT-HYB	192552045599	25
T8-10.5-48GC-8CCT-HYB	T8-10.5-48GC-8CCT-HYB	192552045605	25
T8-12-48GC-8CCT-HYB	T8-12-48GC-8CCT-HYB	192552045612	25
T8-15-48GC-8CCT-HYB	T8-15-48GC-8CCT-HYB	192552045629	25

ORDERING MATRIX

Family	Wattage	Length	Material	CRI/Color Temp	Driver	Wiring Method	Installation Type	Lens Finish
T8	-	-	-	8CCT	-	-	HYB	-
	7.5 7.5W (2 ft)	24G 2 ft	G Glass	8CCT 80CRI, CCT Adjustable	Blank 120-277V	Blank Single & Double Ended	HYB Hybrid	Blank Frosted Clear*
	10.5 10.5W (4 ft)	36G 3 ft	GC Coated Glass	3000/3500/4000/5000/6500K				
	11 11W (3 ft)	48G 4 ft						
	12 12W (4 ft)							
	15 15W (4 ft)							

*Clear lens finish only available on 15W glass option

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Ballast Compatibility List



High Frequency (Electronics) Ballast Description				Compatibility Results			
Ballast Brand	Part Number	Start Method	Number of Lamps	N Lamp		N-1 Lamp	
		PS/IS/RS/PRS	1/2/3/4	120	277	120	277
Philips Advance	ICN-1P32-N	IS	1	C	C	N/A	N/A
Philips Advance	ICN-2P32-N	IS	2	C	C	C	C
Philips Advance	ICN-3P32-N	IS	3	C	C	C	C
Philips Advance	ICN-4P32-N	IS	4	C	C	C	C
Philips Advance	IOPA-1P32-N	IS	1	C	C	N/A	N/A
Philips Advance	IOPA-2P32-N	IS	2	C	C	C	C
Philips Advance	IOPA-3P32-N	IS	3	C	C	C	C
Philips Advance	IOPA-4P32-N	IS	4	C	C	C	C
Philips Advance	IOPA-1P32-LW-N	IS	1	C	C	N/A	N/A
Philips Advance	IOPA-2P32-LW-N	IS	2	C	C	C	C
Philips Advance	IOPA-3P32-LW-N	IS	3	C	C	C	C
Philips Advance	IOPA-4P32-LW-N	IS	4	C	C	C	C
Philips Advance	IOPA-1P32-HL-N	IS	1	C	C		
Philips Advance	IOPA-2P32-HL-N	IS	2	C	C	C	C
Philips Advance	IOP-2P32-N	IS	2	C	C	C	C
Philips Advance	IOP-4P32-N	IS	4	C	C	C	C
Philips Advance	IOP-2P32-LW-N	IS	2	C	C	C	C
Philips Advance	IOP-2P32-HL-N	IS	2	C	C	C	C
Philips Advance	IOP-4P32-HL-SC	IS	4	C	C	C	C
Universal Lighting	B132IUNVHP-N	IS	1	C	C	N/A	N/A
Universal Lighting	B232IUNVHP-N	IS	2	C	C	C	C
Universal Lighting	B332IUNVHP-A	IS	3	C	C	C	C
Universal Lighting	B432IUNVHP-A	IS	4	C	C	C	C
Universal Lighting	B232IUNVHE-A	IS	3	C	C	C	C
Universal Lighting	B332IUNVHE-A	IS	3	C	C	C	C
Universal Lighting	B432IUNVHE-A	IS	4	C	C	C	C
Universal Lighting	B232IUNVEL-A	IS	2	C	C	C	C
Universal Lighting	B432IUNVEL-A	IS	4	C	C	C	C
Universal Lighting	B232IUNVHEH-A	IS	2	C	C	C	C
General Electric	GE-232-MV-N-DIY	IS	2	C	C	C	C
General Electric	GE-432-MV-N-DIY	IS	4	C	C	C	C
General Electric	GE232MAX-N/ULTRA	IS	2	C	C	C	C
General Electric	GE332MAX-N/ULTRA	IS	3	C	C	C	C
Osram Sylvania	QTP 1X32T8/UNV ISN-SC	IS	1	C	C	N/A	N/A
Osram Sylvania	QTP 2X32T8/UNV ISN-SC	IS	2	C	C	C	C
Osram Sylvania	QTP 3X32T8/UNV ISN-SC	IS	3	C	C	C	C
Osram Sylvania	QTP 4X32T8/UNV ISN-SC	IS	4	C	C	C	C
Osram Sylvania	QTP 2X32T8/347 ISN-SC	IS	2	C	C	C	C
Osram Sylvania	QHE 2X32T8/UNV ISN-SC	IS	2	C	C	C	C

KEY: C = Compatible N/A = Not applicable N = Not Compatible

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Ballast Compatibility List (cont'd.)



High Frequency (Electronics) Ballast Description				Compatibility Results			
Ballast Brand	Part Number	Start Method	Number of Lamps	N Lamp		N-1 Lamp	
		PS/IS/RS/PRS	1/2/3/4	120	277	120	277
Osram Sylvania	QHE 3x32T8/UNV ISN-SC	IS	3	C	C	C	C
Osram Sylvania	QHE 4X32T8/UNV ISN-SC	IS	4	C	C	C	C
Osram Sylvania	QHE 2X32T8/UNV ISL-SC	IS	2	C	C	C	C
Osram Sylvania	QHE 3x32T8/UNV ISL-SC	IS	3	C	C	C	C
Osram Sylvania	QHE 4X32T8/UNV ISL-SC	IS	4	C	C	C	C
Osram Sylvania	QHE 2x32T8/UNV ISH-SC	IS	2	C	C	C	C
Osram Sylvania	QHE 4x32T8/UNV ISH	IS	4	C	C	C	C
Osram Sylvania	QHE 1X32T8/UNV ISH HT SC	IS	1	C	C	N/A	N/A
Osram Sylvania	QHE 2X32T8/UNV ISH HT SC	IS	2	C	C	C	C
Osram Sylvania	QHE 3x32T8/UNV ISL-SC-1	IS	3	C	C	C	C
Osram Sylvania	QHE 4x32T8/UNV ISL-SC-1	IS	4	C	C	C	C
Philips Advance	REB-2P32-N	IS	2	C	N/A	C	N/A
Philips Advance	ICN2P16TLEDN	IS	2	C	C	C	C
Philips Advance	ICN2P16HLTLEDSC	IS	2	C	C	C	C
Philips Advance	ICN4P16HLTLEDSC	IS	4	C	C	C	C
Philips Advance	IZT-2P16-TLED-SC	IS	2	C	C	C	C
Philips Advance	IZT-4P16-TLED-SC	IS	4	C	C	C	C
Philips Advance	ICN2P16TLEDELN	IS	2	C	C	C	C
Philips Advance	IOP-2PSP32-LW-N	PS	2	C	C	C	C
Philips Advance	IZT-2PSP32-SC	PS	2	C	C	C	C
Philips Advance	IOP-4PSP32-LW-SC	PS	4	C	C	C	C
Philips Advance	IOP-1PSP32-N	PS	1	C	C	N/A	N/A
Philips Advance	IOP-2PSP32-N	PS	2	C	C	C	C
Philips Advance	REZ-3S32-SC	PS	3	C	N/A	C	N/A
Philips Advance	IOP-3S32-SC	PS	2	C	C	C	C
Philips Advance	IOP-1S32-LW-SC	PS	1	C	C	N/A	N/A
Philips Advance	IOP-2S32-LW-SC	PS	2	C	C	C	C

KEY: C = Compatible N/A = Not applicable N = Not Compatible

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Dimmer Compatibility List



Visit www.rablighting.com for periodic updates to this list or contact us at 888-722-1000 for questions or comments.

		Dimmers		Qty. of Lamps			
Wiring Method	Dimming Method	Dimmer Brand	Dimmer Model	1	4	8	10
Type B -Ballast Bypass	Triac Dimming @120V with compatible Triac dimmer	LUTRON	NTELV-300	Yes	Yes	Yes	Yes
		LUTRON	SELV-300P	Yes	Yes	Yes	Yes
		LUTRON	CTELV-303P	Yes	Yes	Yes	Yes
		LUTRON	DVELV-303P	Yes	Yes	Yes	Yes
Type A - Ballast Compatible	0-10V @120V&277V with compatible dimming fluorescent ballast & compatible 0-10V dimmer	1. Ballast: IZT-4P16-TLED-SC/QHE 2x32T8 UNV DIM-TC Dimmer: (Lutron: DVSTV-WH)					
		2. Sylvania Elogic 45167 :ELMC-SL3W-TVWBX/UNV Dimmer: (Lutron: DVSTV-WH)					