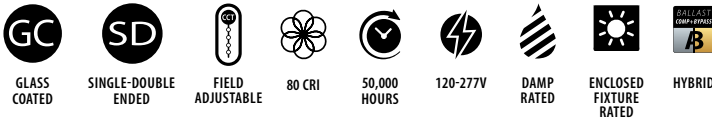


Shatter-Resistant, Field-Adjustable T8 Hybrid



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



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

Shatter-Resistant, Field-Adjustable T8 Hybrid



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	

TECHNICAL SPECIFICATIONS

CONSTRUCTION

Product Type

T8 UL Type A/B - PET Shatter-Resistant

Length

2 ft, 3 ft, 4 ft

Shape

T8

Enclosure Material

Shatter-resistant PET Coated Glass

Endcap Material

Plastic

Finish

Frosted white lens

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

LED CHARACTERISTICS (CONT'D.)

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 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.

COMPLIANCE

Listings

UL Listed, UL Classified

Environment

Suitable for use indoors in dry and damp environments.

Fixture Rating

Suitable for use in enclosed fixtures

DLC

This product family is listed with the DesignLights Consortium (DLC). Individual SKUs within this family may carry either a DLC Standard or DLC Premium qualification. Please refer to the individual product specification sheet or the DLC Qualified Products List (QPL) at designlights.org to confirm the qualification status of a specific SKU prior to specification or purchase.

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

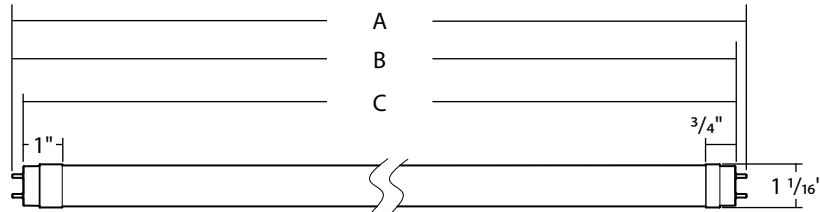
All values are typical (tolerance +/- 10%)

Shatter-Resistant, Field-Adjustable T8 Hybrid



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					

ACCESSORIES



DRI-10-EMGR-TYPE B



DRI-5-EMGR-T8

Catalog Number	UPC	Description
DRI-10-EMGR-TYPE B	192552000338	10W Emergency Driver Type B DE or SE
DRI-5-EMGR-T8	019813834467	5W Emergency Driver Type B DE or SE

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

Shatter-Resistant, Field-Adjustable T8 Hybrid



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	8CCT	Blank	Blank	HYB	Blank
10.5	10.5W (4 ft)	36G	3 ft GC	80CRI, CCT Adjustable	120-277V	Single & Double Ended	Hybrid	Frosted
11	11W (3 ft)	48G	4 ft	3000/3500/4000/5000/6500K				Clear*
12	12W (4 ft)							
15	15W (4 ft)							

*Clear lens finish only available on 15W glass option

Shatter-Resistant, Field-Adjustable T8 Hybrid

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

Shatter-Resistant, Field-Adjustable T8 Hybrid 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	ICN2P16HLLTLEDSC	IS	2	C	C	C	C
Philips Advance	ICN4P16HLLTLEDSC	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

Shatter-Resistant, Field-Adjustable T8 Hybrid Dimmer Compatibility List



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

Wiring Method	Dimming Method	Dimmers		Qty. of Lamps			
		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)					