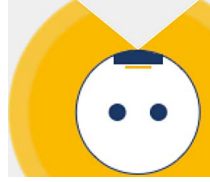




**310° Light Distribution**



**Product Series:** UNIVERSAL SMART8  
**Lamp Type:** LED T8 Type A+B  
**Base Type:** G13 Medium Bi-Pin  
**Wattage Eqv:** 32W (4FT)  
**CCT Options:** 3000K | **4100K** | 5000K  
**Operating Temp:** -20°C/-4°F to 45°C/113°F  
**Regulatory:** UL Damp Location  
**Warranty:** 5-Year, 50,000Hr

**KEY FEATURES**

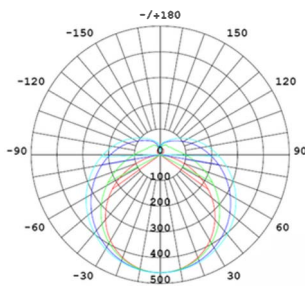
- ✓ Full Length Glass Lens with 310° Lighting Distribution
- ✓ Uniform, End-to-End Light Output w/ Zero Pixelation
- ✓ Universal Input Voltage: 120-277V
- ✓ Instant-ON w/ No Flicker
- ✓ Compatible to Wide-Range of Electronic Ballasts
- ✓ May also operate direct-wire from line voltage
- ✓ Operates Type-B Single-Ended or Double-Ended
- ✓ UL, DLC QPL, and NSF/ANSI Standard 2 Listed

**PERFORMANCE SPECIFICATIONS**

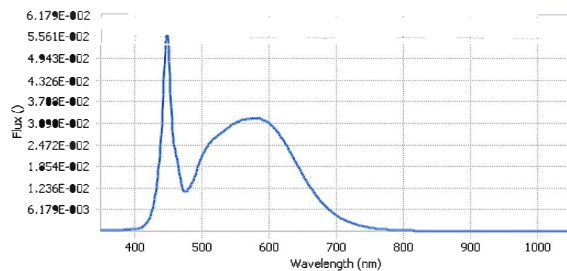
MODEL	LAMP TYPE	TUBE WATTAGE	EQUIV. WATTAGE	INPUT VOLTAGE*	NOMINAL LUMENS	CCT	CRI	THD	PF	CARTON QTY	LIGHT SPREAD
LBU8F214A	T8 1.4ft	14W	32W	120-277V, 347V	2,100LM	4100K	83	<15%	>0.95	16	310°

\* Ballast dependent

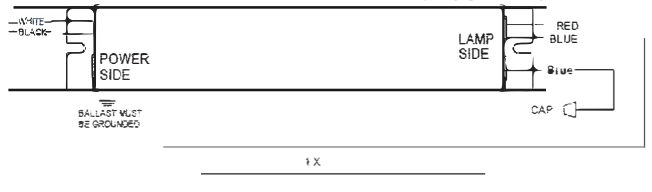
**POLAR CANDELA SPREAD**



**SPECTRAL POWER DISTRIBUTION**

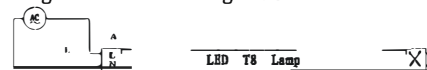


**BALLAST CONFIGURATION (Type-A)**



**DIRECT WIRING CONFIGURATION (Type-B)**

(A) Single-Ended Configuration

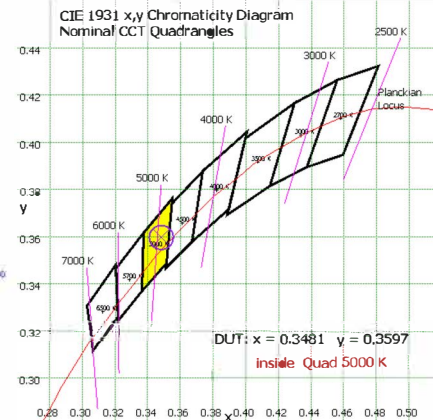
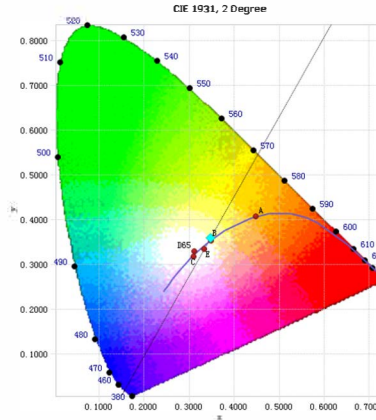


(B) Double-Ended Configuration



### SPHERE-SPECTRORADIOMETER METHOD (12W, 5000K)

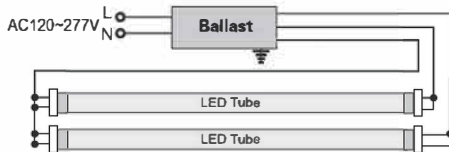
Parameter	Result	
Test Voltage (V)	120.0	277.0
Voltage frequency (Hz)	60	60
Test Current (A)	0.264	0.119
Power Factor	0.9976	0.9651
Test Power (W)2	15.79	15.89
THDA%	4.61	11.59
Luminous Efficacy (lm/W)	131.5	130.8
Total Luminous Flux (lm)	2076.0	2077.0
Color Rendering Index (CRI)	83.0	
R9	13.4	
Correlated Color Temperature (CCT)(K)	4915	
Chromaticity Chroma x	0.3481	
Chromaticity Chroma y	0.3597	
Chromaticity Chroma u	0.2103	
Chromaticity Chroma v	0.3260	
Duv	0.0028	
Chromaticity Chroma u'	0.2103	
Chromaticity Chroma v'	0.4890	



Special Color Rendering Indices													
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
81	86.9	91.5	83.2	81.4	81.7	88.5	69.9	13.4	69.2	82.1	59.3	82.2	95.4

### BALLAST COMPATIBILITY (Type-A)\*\*

1. Disconnect the power to the light fixture.
2. Remove the existing fluorescent lamps.
3. Install the Tubul@RCH SMART8 lamps.
4. Reconnect the power to the light fixture.



Dimmable
Instant Start
Program Start
Rapid Start

1-Lamp Load  
120-277V, 347V, 480V

2-Lamp Load  
120-277V, 347V, 480V

3-Lamp Load  
120-277V, 347V, 480V

4-Lamp Load  
120-277V, 347V, 480V

Ultrasave Premium Greenhill Sunpark

Arcata Fulham GE PowerMaster

Standard Howard Universal Halco

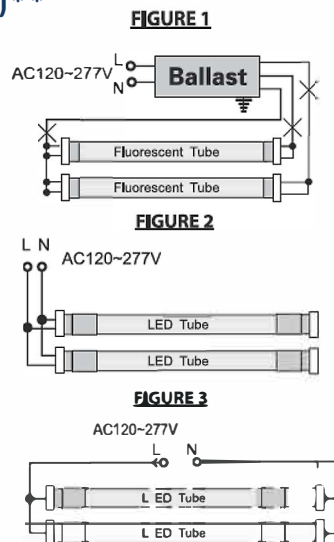
Espen Advance Pacific Robertson

Fusion Keystone Huafeng Osram Sylvania

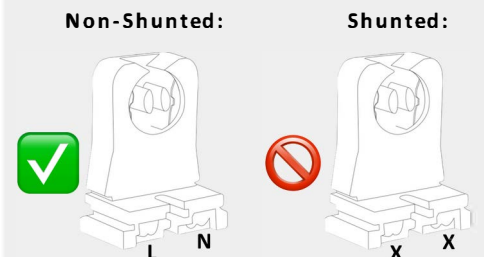
Plusrite TCP

### BYPASS WIRING DIAGRAMS (Type-B)\*\*

1. Disconnect the power to the light fixture.
2. Remove the existing fluorescent lamps.
3. Cut the wires as shown by the "X" in Figure 1.
4. Install the Tubul@RCH SMART8 lamps in either:
  - a) Single-ended input\*\*\* per Figure 2, or
  - b) Double-ended input per Figure 3
5. Reconnect the power to the light fixture.



**CAUTION:** Single-ended input CANNOT be used with shunted lampholders



**WARNING** – To prevent wiring damage or abrasion, do not expose wiring to edges of sheet metal or other sharp objects.

**WARNING** – To avoid potential fire or shock hazard, do not use this retrofit kit in luminaires employing shunted bi-pin lamp holders. Note: Shunted lamp holders are found only in fluorescent luminaires with Instant-Start ballasts.

\*\* Visit [www.archipelagolighting.com](http://www.archipelagolighting.com) for the full up-to-date installation guide and ballast compatibility list.  
 \*\*\* Single-ended input CANNOT be used with shunted lampholders. If you are unsure, proceed with b) Double-ended input wiring method.