



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

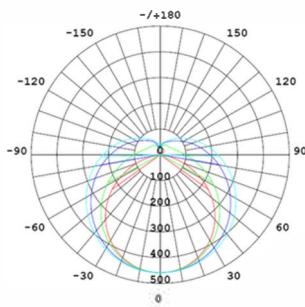
- ✓ Full Length Glass Lens with 310° Lighting Distribution
- ✓ Uniform, End-to-End Light Output w/ Zero Pixelation
- ✓ Universal Input Voltage: 120-277V
- ✓ Instant-ON w/ No Flicker
- ✓ Compatible to Wide-Range of Electronic Ballasts
- ✓ May also operate direct-wire from line voltage
- ✓ Operates Type-B Single-Ended or Double-Ended
- ✓ UL, DLC QPL, and NSF/ANSI Standard 2 Listed
- ✓ DLC® Part Number: LBU8F1841A

PERFORMANCE SPECIFICATIONS

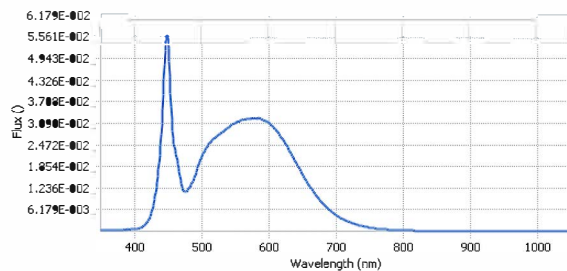
MODEL	LAMP TYPE	TUBE WATTAGE	EQUIV. WATTAGE	INPUT VOLTAGE*	NOMINAL LUMENS	CCT	CRI	THD	PF	CARTON QTY	LIGHT SPREAD	DLC QPL
LBU8F1841A	T8 4ft	12W	32W	120-277V, 347V	1,800LM	4100K	83	<15%	>0.95	16	310°	
LBU8F1850A	T8 4ft	12W	32W	120-277V, 347V	1,800LM	5000K	83	<15%	>0.95	16	310°	
LBU8F2241A	T8 4ft	14W	32W	120-277V, 347V	2,150LM	4100K	83	<15%	>0.95	16	310°	
LBU8F2250A	T8 4ft	14W	32W	120-277V, 347V	2,200LM	5000K	83	<15%	>0.95	16	310°	

* Ballast dependent

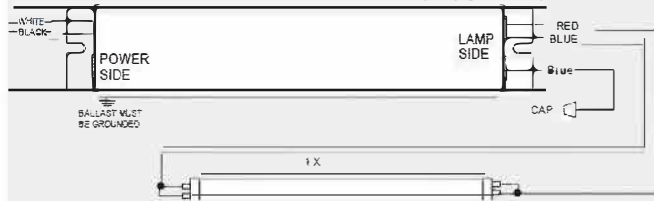
POLAR CANDELA SPREAD



SPECTRAL POWER DISTRIBUTION

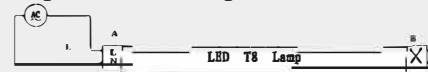


BALLAST CONFIGURATION (Type-A)

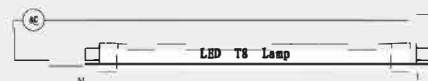


DIRECT WIRING CONFIGURATION (Type-B)

(A) Single-Ended Configuration

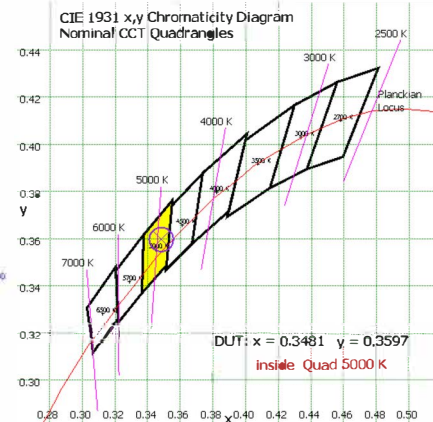
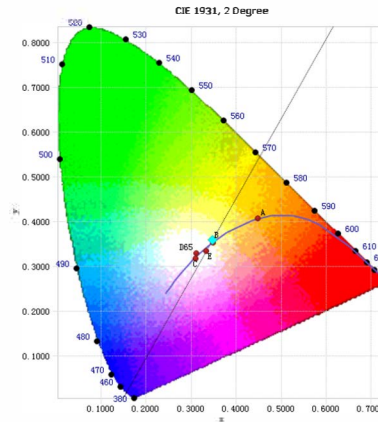


(B) Double-Ended Configuration



SPHERE-SPECTRORADIOMETER METHOD (12W, 5000K)

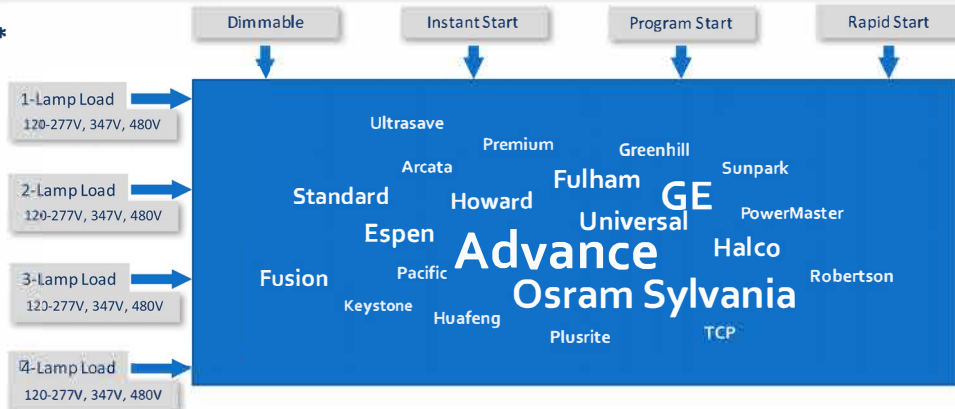
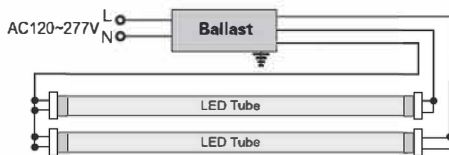
Parameter	Result	
Test Voltage (V)	120.0	277.0
Voltage frequency (Hz)	60	60
Test Current (A)	0.264	0.119
Power Factor	0.9976	0.9651
Test Power (W)2	15.79	15.89
THDA%	4.61	11.59
Luminous Efficacy (lm/W)	131.5	130.8
Total Luminous Flux (lm)	2076.0	2077.0
Color Rendering Index (CRI)	83.0	
R9	13.4	
Correlated 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

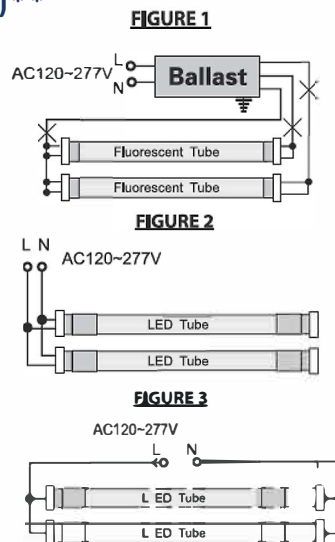
BALLAST COMPATIBILITY (Type-A)**

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.

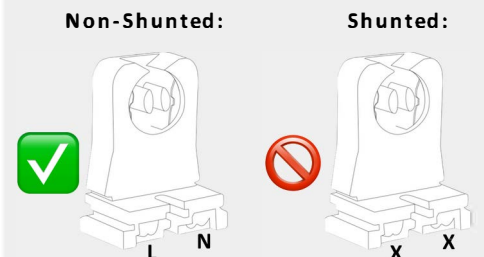


BYPASS WIRING DIAGRAMS (Type-B)**

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.archipelagoighting.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.