

Project Name:

Notes:

Distribution Partner:



320° Light Distribution



Product Series:	Tubul®RCH
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

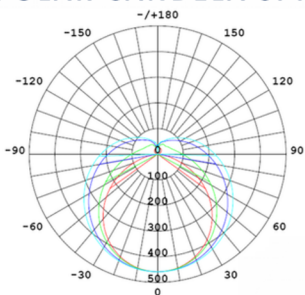
- ✓ Full Length Glass Lens with 320° Lighting Distribution
- ✓ Uniform, End-to-End Light Output w/ Zero Pixelation
- ✓ Universal Input Voltage: 120-277V
- ✓ Instant-ON w/ No Flicker
- ✓ Compatible to Wide-Range of Electronic Ballasts
- ✓ May also operate direct-wire from line voltage
- ✓ Operates Type-B Single-Ended or Double-Ended
- ✓ UL, DLC QPL, and ETL Sanitation Listed

PERFORMANCE SPECIFICATIONS

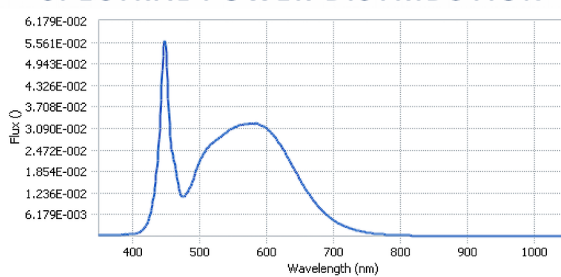
MODEL	LAMP TYPE	BARE LAMP / SYSTEM (W)*	EQUIV. WATTAGE	INPUT VOLTAGE*	NOMINAL LUMENS	CCT	CRI	THD	PF	CARTON QTY	LIGHT SPREAD	DLC QPL
LT8F41230U4	T8 4ft	12W / 15W	32W	120-277V, 347V	1,850LM	3000K	83	<15%	>0.95	25	320°	
LT8F41241U4	T8 4ft	12W / 15W	32W	120-277V, 347V	1,900LM	4100K	83	<15%	>0.95	25	320°	
LT8F41250U4	T8 4ft	12W / 15W	32W	120-277V, 347V	1,900LM	5000K	83	<15%	>0.95	25	320°	
LT8F41430U4	T8 4ft	14W / 17W	32W	120-277V, 347V	2,100LM	3000K	83	<15%	>0.95	25	320°	
LT8F41441U4	T8 4ft	14W / 17W	32W	120-277V, 347V	2,100LM	4100K	83	<15%	>0.95	25	320°	
LT8F41450U4	T8 4ft	14W / 17W	32W	120-277V, 347V	2,200LM	5000K	83	<15%	>0.95	25	320°	

* Ballast dependent

POLAR CANDELA SPREAD



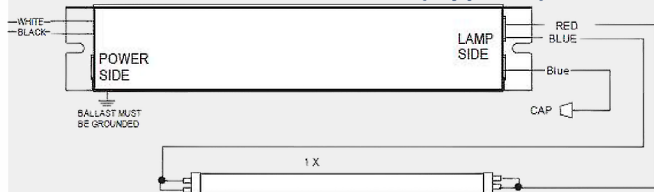
SPECTRAL POWER DISTRIBUTION



MODEL NUMBER SYNTAX

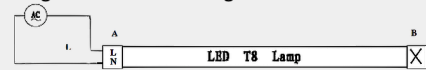
LT8F 4 14 50 U4
LED T8 | Length (ft) | Watt | CCT | Generation Code

BALLAST CONFIGURATION (Type-A)

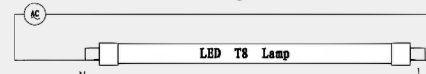


DIRECT WIRING CONFIGURATION (Type-B)

(A) Single-Ended Configuration



(B) Double-Ended Configuration



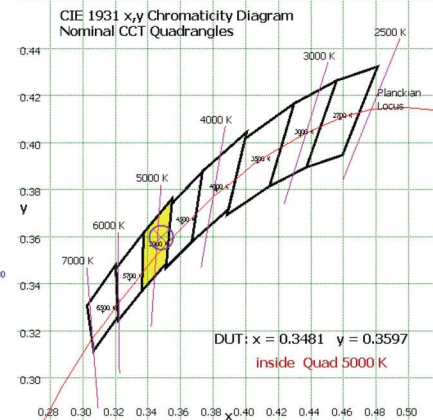
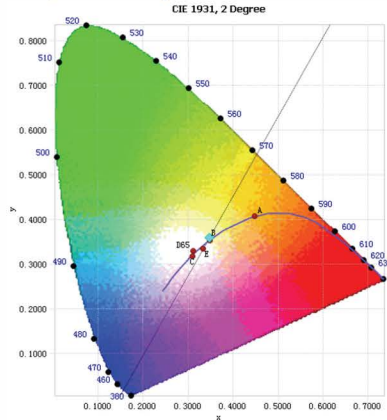
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SPHERE-SPECTRORADIOMETER METHOD (12W, 5000K)

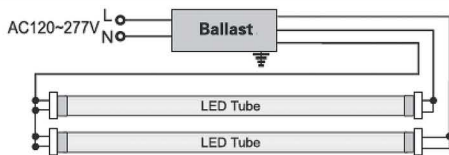
Parameter	Result	
Test Voltage (V)	120.0	277.0
Voltage frequency (Hz)	60	60
Test Current (A)	0.264	0.119
Power Factor	0.9976	0.9651
Test Power (W)/2	15.79	15.89
THD A%	4.61	11.59
Luminous Efficacy (lm/W)	131.5	130.8
Total Luminous Flux (lm)	2076.0	2077.0
Color Rendering Index (CRI)	83.0	
R9	13.4	
Correlated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

Advance

Osram Sylvania

GE

Fulham

Universal

Halco

PowerMaster

Sunpark

Robertson

TCP

Plusrite

Huafeng

Keystone

Fusion

Espen

Pacific

Howard

Arcata

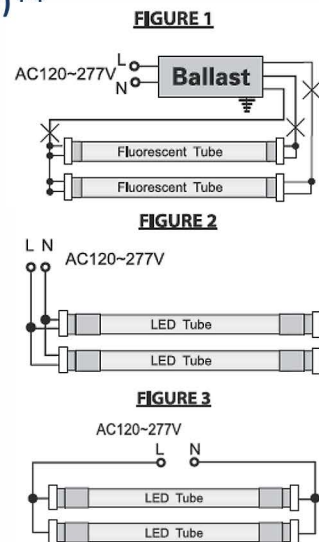
Premium

Greenhill

Ultrasave

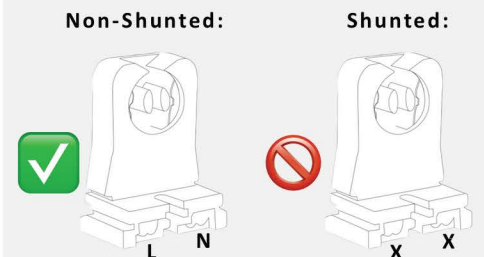
BYPASS WIRING DIAGRAMS (Type-B)**

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 TubulARCH 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.



** Visit 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.

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.