


Certified LED Lights®

Product Data Sheet
LED Tubes



Product Overview

The Selectable Hybrid LED Tube (A+B) offers a flexible, energy-efficient, providing compatibility with both ballast-operated and ballast-bypass installations. This hybrid design allows the tube to operate with an existing compatible fluorescent ballast or, when desired, be installed directly to line voltage with the ballast removed or bypassed. The A+B configuration provides contractors and facility managers with greater installation flexibility.

These tubes features 4ft and 8ft, 5-field CCT selectable options, allowing users to customize the lighting environment to their preference. Additionally, it offers a 5-wattage selectable feature, providing flexibility in adjusting the brightness level. These options enable users to tailor lighting conditions to suit different settings and requirements, ensuring optimal ambiance and energy efficiency.

With a rated life of 50,000 hours, these tubes are built to last by making it a reliable and cost-effective solution for a wide range of applications. It carries a 5 year warranty.

Main Features

- * CCT: 5 color temperature selectable in the field
- * Wattage: 5 adjustable power selectable in the field
- * DLC 5.1 premium listed
- * ETL Listed
- * Damp location
- * FCC Part 15, class A
- * 150 to 163 lumens per watt
- * Long-life LEDs provide 50,000 hours of operation
- * Type A+B (Hybrid with or without a ballast)
- * 100-277V input double ended when ballast is bypassed.
- * Compatible with most instant and programmed-start electronic T8 ballasts
- * Easy installation in new construction or retrofit
- * Operating Temperatures -4°F to 131°F
- * Frosted cover

Applications



**Commercial
Buildings**



Healthcare



Offices



Schools



Product Warranty

Highlights and Certifications



DLC 5.1 Premium Listed



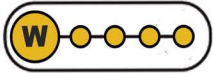
ETL Listed



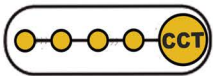
FCC class A



Damp Location



Field selectable wattage 5-way dip switch



Field selectable CCT 5-way dip switch

Key Specifications

* CCT: color temperature selectable 35K, 4K and 5K, 57K and 65K

* Adjustable power:

10W, 12W, 15W, 18W, 24W for the 4 ft models

24W, 30W, 36W, 42W, 48W for the 8ft models

* 4Ft is standard with G13 base

* 8Ft is standard with FA8 base (R17D base available)

* Power factor > 0.95

* CRI > 80

* THD < 20%

* Viewing angle: 120 degrees

Performance

4FT Tubes G13

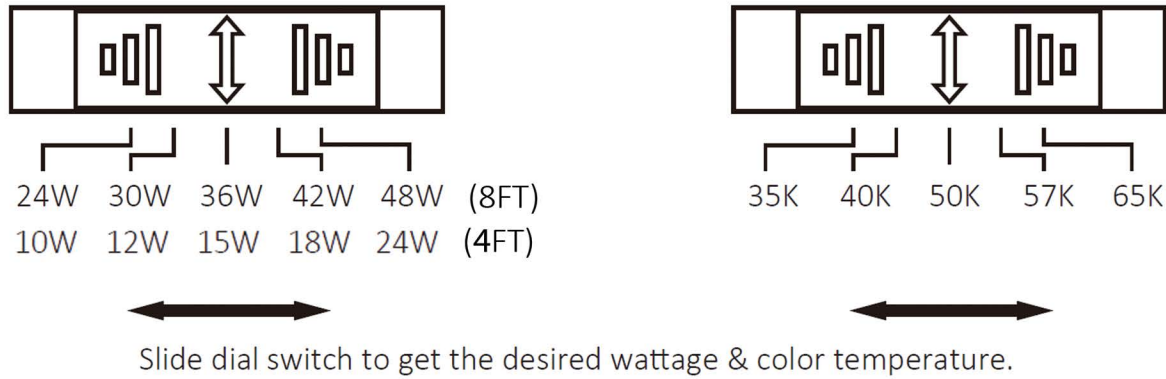
10W						12W						15W					
Color	3,500K	4,000K	5,000K	5,700K	6,500K	Color	3,500K	4,000K	5,000K	5,700K	6,500K	Color	3,500K	4,000K	5,000K	5,700K	6,500K
Lumens	1,610	1,640	1,650	1,630	1,600	Lumens	1,884	1,908	1,944	1,920	1,884	Lumens	2,340	2,370	2,400	2,370	2,340
Lumens/ Watt	161	164	165	163	160	Lumens/ Watt	157	159	162	160	157	Lumens/ Watt	156	158	160	158	156
18W						24W											
Color	3,500K	4,000K	5,000K	5,700K	6,500K	Color	3,500K	4,000K	5,000K	5,700K	6,500K						
Lumens	2,772	2,808	2,844	2,772	2,736	Lumens	3,048	3,048	3,048	3,048	3,048						
Lumens/ Watt	154	156	158	154	152	Lumens/ Watt	152	153	151	150	149						

8FT Tubes FA8 + R17D

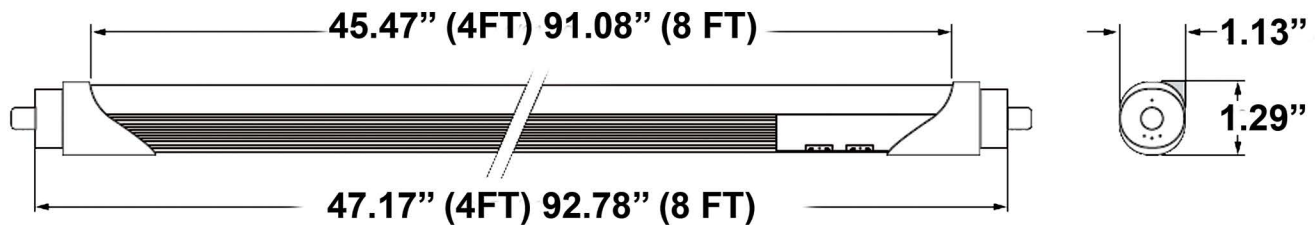
24W						30W						36W					
Color	3,500K	4,000K	5,000K	5,700K	6,500K	Color	3,500K	4,000K	5,000K	5,700K	6,500K	Color	3,500K	4,000K	5,000K	5,700K	6,500K
Lumens	3,864	3,936	3,960	3,912	3,840	Lumens	4,710	4,770	4,860	4,800	4,710	Lumens	5,616	5,688	5,760	5,688	5,616
Lumens/ Watt	161	164	165	163	160	Lumens/ Watt	157	159	162	160	157	Lumens/ Watt	156	158	160	158	156

42W						48W					
Color	3,500K	4,000K	5,000K	5,700K	6,500K	Color	3,500K	4,000K	5,000K	5,700K	6,500K
Lumens	6,468	6,552	6,636	6,468	6,384	Lumens	7,296	7,344	7,248	7,200	7,152
Lumens/ Watt	154	156	158	154	152	Lumens/ Watt	152	153	151	150	149

Field Selectable



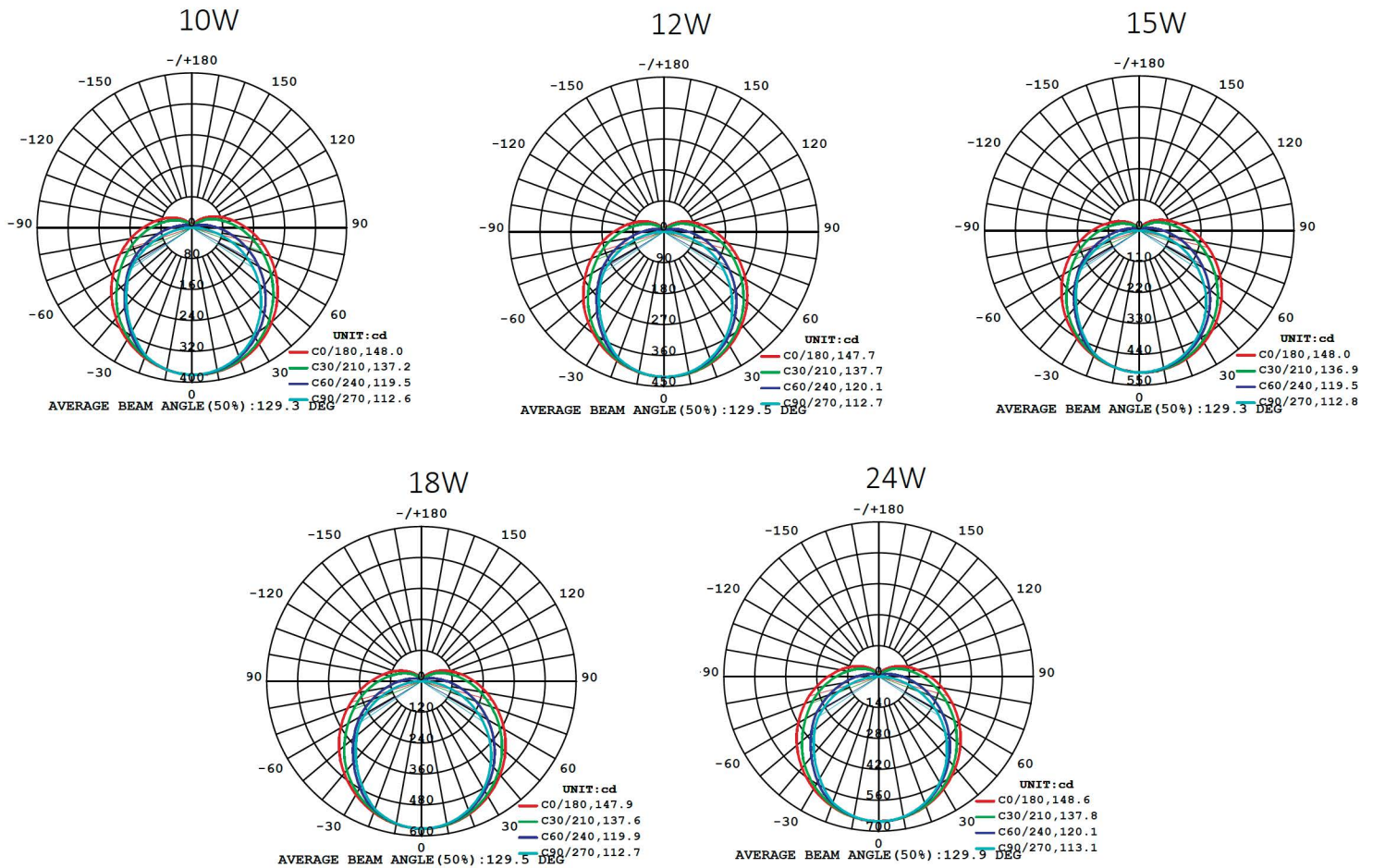
Dimensions



Ordering Guide

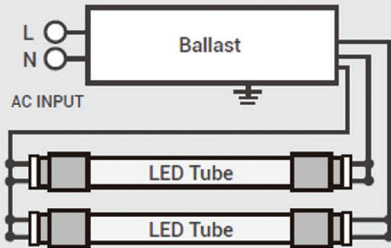
PART #	Color Temp	Lumens	Lens	Lumen/watt	Wattage	Pin/ base option	Length
NC-T84F-M24W-CCT-AB	3.5K, 4K, 5K, 5.7K, 6.5K	1,600 -3,048	Frosted	149 – 165	10,12,15,18,24W	G13 Double pin	4ft
NC-T88F-M48W-CCT-AB	3.5K, 4K, 5K, 5.7K, 6.5K	3,840 – 7,344	Frosted	149 – 165	24,30,36,42,48W	FA8 Single pin	8ft
R17D-T88F-M48W-CCT-AB	3.5K, 4K, 5K, 5.7K, 6.5K	3,840 – 7,344	Frosted	149 – 165	24,30,36,42,48W	R17D"HO" pin	8ft

Photometric Data



Installation Instructions

PLUG & PLAY



TYPE A INSTALLATION DIRECT REPLACEMENT (WITH EXISTING BALLAST)

*** Warning: Check Ballast Compatibility List before installation**

1. Turn power off.
2. Remove lens or diffuser, if applicable.
3. Remove existing fluorescent lamp(s) from the luminaire.
4. Install the LED replacement lamp(s), one lamp for each fluorescent lamp removed.
5. Replace lens or diffuser back in place, if applicable.
6. Turn power back on.

TYPE B INSTALLATION BY-PASS REPLACEMENT (WITHOUT BALLAST)

1. Disconnect power from fixture.
2. Remove fluorescent lamps.
3. Remove lens and wiring compartment, if applicable.
4. Cut all wires connected to ballast (see Figure A: Typical Ballast Configurations).

Figure A

