

Project \_\_\_\_\_  
 Schedule \_\_\_\_\_ Date \_\_\_\_\_  
 Notes \_\_\_\_\_

**DESCRIPTION**

naturalLED<sup>®</sup> LED Integrated Driver T5/T8 Tubes are direct-wire installation to replace Fluorescent Tubes. Designed to be noise-free and non-flickering, our LED Tubes selections from 9W to 43W can replace 2ft, 3ft, 4ft, 8ft Fluorescent Tubes. DLC qualified LED tubes are designed to provide right amount of light levels while utilizing a dedicated internal driver. Our integrated tubes can provide up to 60% in energy savings compare to 4ft 32-watt fluorescent lamps. With excellent color consistency, and Glass Construction, our integrated driver design brings you the best retrofit solution.



Non-Dimmable  
 50,000 Long Life Hours  
 No Ballast Required  
 Single/Double Ended

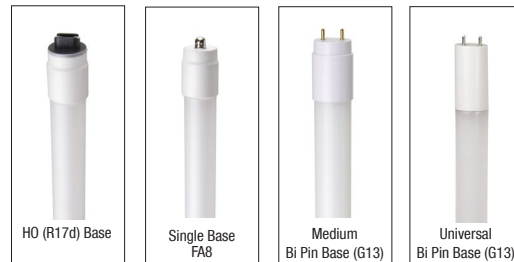


**FEATURES**

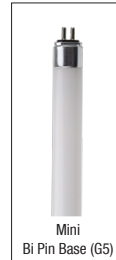
- DLC Qualified
- UL Damp
- Retrofit for T5/T8/T12 fluorescent tubes
- Ballast bypass design (UL Type B)  
Universal T8 designed for shunted/non-shunted tombstones sockets
- T5 designed for double sided wiring
- T8 designed for non-shunted tombstones sockets
- No flickering
- No ballast required
- Input Voltage: 120-277V
- Surge Protect Level: 1.5KV (all by-pass tubes)
- Operating temperature: -4°F - 113°F

**BASE TYPE**

**T8**



**T5**



**APPLICATIONS**

- Conference rooms
- Meeting rooms
- Factories
- Offices
- Schools / Universities
- Hospitalities
- Hospital

**WARRANTY**

- 5 Year Warranty

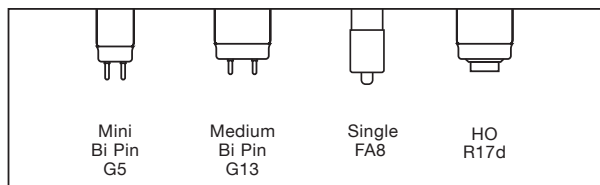
Ordering Information		EXAMPLE: LED9T8/24FR11/840/UNV				
LED	9	T8	24	FR11	840	UNV
	<b>Wattage</b>	<b>Style</b>	<b>Length</b>	<b>Lens/Lumens</b>	<b>Color Temp/ CRI</b>	
<b>LED</b>	9 9-Watts	<b>T8</b> T8 Tubes	<b>24</b> 24-inch	<b>FR</b> Frosted Lens <b>11</b> <1,100 lm	<b>8</b> CRI80 <b>40</b> 4000K	<b>UNV</b> Universal Driver

ORDERING

\*P= Premium DLC / \*S = Standard DLC

Watts (W)	Ordering Code	Description	Color Temp (K)	Lumens (lm)	Base	Equiv. Wattage (W)	Beam Angle	Wiring Methods	Damp Location	DLC (S/P)
25	5943	LED25T5/FR35/850	5000K	3,500	Bi-Pin (G5)	54	325°	II	•	S
9	4556	LED9T8/24FR11/840/UNV	4000K	1,150	Bi-Pin (G13)	17	325°	I or II	•	S
9	4557	LED9T8/24FR11/850/UNV	5000K	1,150	Bi-Pin (G13)	17	325°	I or II	•	S
14	4538	LED14T8/FR18/840/UNV	4000K	1,800	Bi-Pin (G13)	32	325°	I or II	•	S
14	4539	LED14T8/FR18/850/UNV	5000K	1,800	Bi-Pin (G13)	32	325°	I or II	•	S
9	5951	LED9T8/24FR10/840	4000K	1,119	Bi-Pin (G13)	17	325°	I	•	-
9	5952	LED9T8/24FR10/850	5000K	1,133	Bi-Pin (G13)	17	325°	I	•	-
15	5953	LED15T8/36FR16/840	4000K	1,600	Bi-Pin (G13)	25	325°	I	•	-
15	5954	LED15T8/36FR16/850	5000K	1,600	Bi-Pin (G13)	25	325°	I	•	-
15	5955	LED15T8/FR18/840G1	4000K	1,800	Bi-Pin (G13)	32	325°	I	•	S
15	5956	LED15T8/FR18/850G1	5000K	1,800	Bi-Pin (G13)	32	325°	I	•	S
43	5958	LED43T8/96FR55/840	4000K	5,500	Single Pin	110	325°	III	•	S
43	5959	LED43T8/96FR55/850	5000K	5,500	Single Pin	110	325°	III	•	S
43	5960	LED43T8/96FR55/R17D/840	4000K	5,500	R17d	110	325°	II	•	-
43	5961	LED43T8/96FR55/R17D/850	5000K	5,500	R17d	110	325°	II	•	-

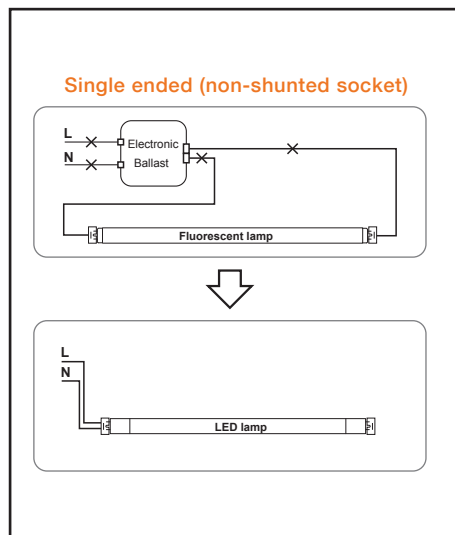
SPECIFICATIONS



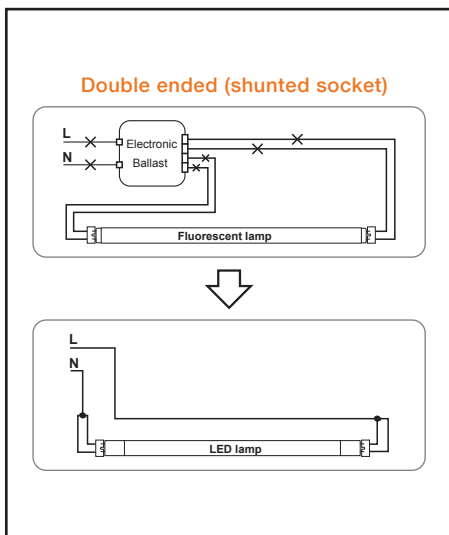
Style	Type	A (Diameter)	B (Length)	Weight (lbs)
T5	4-ft	0.63"(15.87mm)	48"(1219.2mm)	0.45
T8	2-ft	1.00" (25.4mm)	24"(609.6mm)	0.50
T8	3-ft	1.00" (25.4mm)	36"(914.4mm)	0.65
T8	4-ft	1.00" (25.4mm)	48" (1219.2mm)	0.80
T8 (FA8)	8-ft	1.00" (25.4mm)	96" (2438.4mm)	1.50
T8 (R17d)	8-ft	1.00" (25.4mm)	96" (2438.4mm)	1.50

Surface Mount Kit Dimension

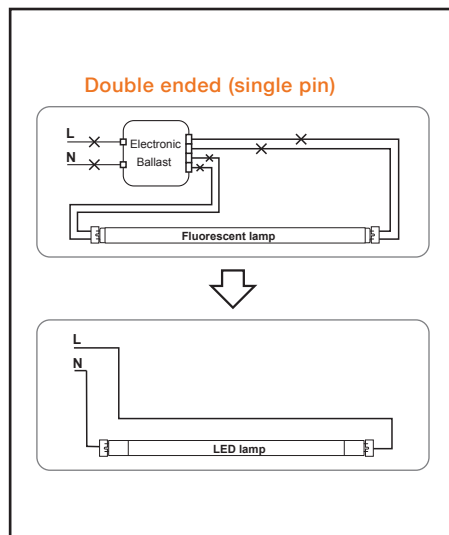
Wiring method - I



Wiring method - II



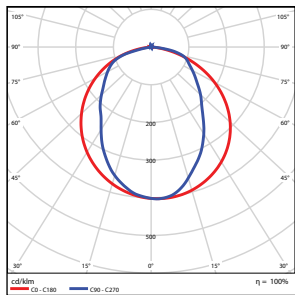
Wiring method - III



# PHOTOMETRICS CHART

## T5 25W (4-ft)

DLC Standard



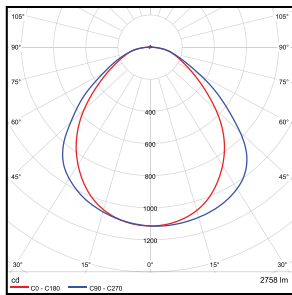
**Illuminance at a Distance**

Center Beam fc	Beam Width	
2.5R	815 fc	7.7 ft 4.5 ft
5.0R	204 fc	15.4 ft 8.9 ft
7.5R	90.6 fc	23.2 ft 13.4 ft
10.0R	50.9 fc	30.9 ft 17.9 ft
12.5R	32.6 fc	38.6 ft 22.3 ft
15.0R	22.6 fc	46.3 ft 26.8 ft

■ Vert. Spread: 114.2°  
■ Horiz. Spread: 83.6°

## T8 9W (2-ft)

DLC Standard



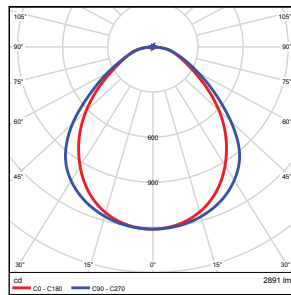
**Illuminance at a Distance**

Center Beam fc	Beam Width	
2.5R	178 fc	5.4 ft 6.5 ft
5.0R	44.5 fc	10.7 ft 13.1 ft
7.5R	19.8 fc	16.1 ft 19.6 ft
10.0R	11.1 fc	21.4 ft 26.1 ft
12.5R	7.13 fc	26.8 ft 32.7 ft
15.0R	4.95 fc	32.2 ft 39.2 ft

■ Vert. Spread: 94.0°  
■ Horiz. Spread: 105.2°

## T8 15W (4-ft)

DLC Standard



**Illuminance at a Distance**

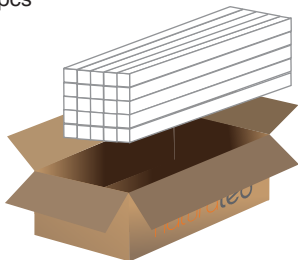
Center Beam fc	Beam Width	
2.5R	197 fc	5.5 ft 6.3 ft
5.0R	49.3 fc	11.0 ft 12.7 ft
7.5R	21.9 fc	16.5 ft 19.0 ft
10.0R	12.3 fc	22.0 ft 25.3 ft
12.5R	7.88 fc	27.5 ft 31.7 ft
15.0R	5.47 fc	33.0 ft 38.0 ft

■ Vert. Spread: 95.5°  
■ Horiz. Spread: 103.4°

## PACKAGE

Master Pack: 25 pcs

For T5, T8



Master Pack: 10 pcs

For T8/8-ft

