

# INTEGRATED TUBE



## Product Description

naturaLED® 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 Tube.

DLC qualified LED tube are designed to provide right amount of light levels while utilizing a dedicated internal driver. Our integrated tube can provide up to 60% in energy savings compare to 4ft 32-watt fluorescent lamps. With excellent color consistency, with Glass Construction, our integrated driver design brings you the best retrofit solution.



T5/T8 Direct Wire

Universal



## Features & Benefits

- ▶ DLC qualified
- ▶ UL damp
- ▶ Retrofit for T5/ T8/T12 fluorescent tube
- ▶ Excellent color consistency
- ▶ No flickering
- ▶ Noise free design
- ▶ No ballast required
- ▶ T5 is designed for double sided wiring
- ▶ T8 is designed for non-shunted tombstones socket
- ▶ Universal T8 is designed for shunted/non-shunted tombstones socket
- ▶ 50,000 hrs rated average life

## Specifications

- ▶ Input line voltage: 120-277V
- ▶ Ballast Bypass Design (UL Type B)
- ▶ Powerfactor: >0.9
- ▶ Operating temperature: -4°F - 113°F
- ▶ Finish: Frosted Glass

## Applications

- ▶ Conference Room
- ▶ Meeting Room
- ▶ Factory / Office
- ▶ School / University
- ▶ Hospital
- ▶ Hotel

## Base Type

### T8



### T5



Ordering Information

Code	Description	CCT	Watt	Lumen	Equip Wattage	Base	Wiring method	Length	Beam Angle	DLC
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T5- Double sided wiring

5943	LED25T5/FR35/850	5000K	25	3,500	54	Bi-Pin (G5)	II	4-ft /48"	325°	•
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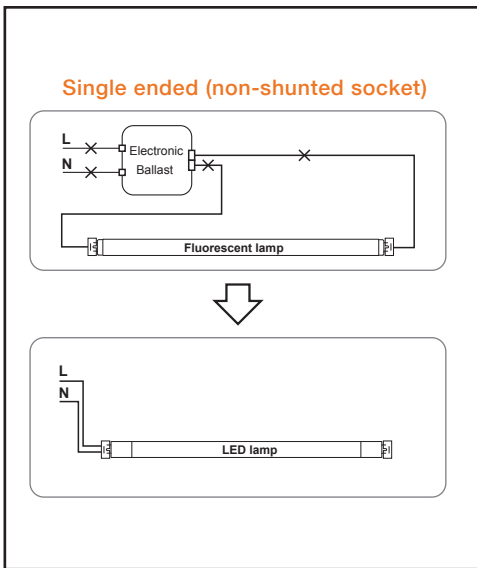
Universal- Shunted/ Non Shunted Universal Wiring

4556	LED9T8/24FR11/840/UNV	4000K	9	1,150	17	Bi-Pin (G13)	I or II	2-ft /24"	325°	•
4557	LED9T8/24FR11/850/UNV	5000K	9	1,150	17	Bi-Pin (G13)	I or II	2-ft /24"	325°	•
4538	LED14T8/FR18/840/UNV	4000K	14	1,800	32	Bi-Pin (G13)	I or II	4-ft /48"	325°	•
4539	LED14T8/FR18/850/UNV	5000K	14	1,800	32	Bi-Pin (G13)	I or II	4-ft /48"	325°	•

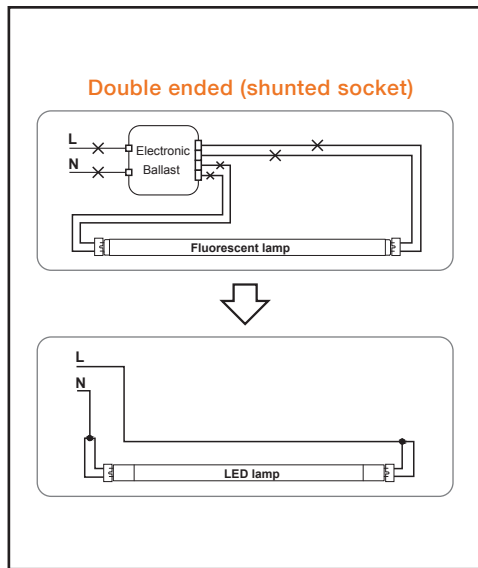
T8- Non Shunted Wiring

5951	LED9T8/24FR10/840	4000K	9	1,119	17	Bi-Pin (G13)	I	2-ft /24"	325°	
5952	LED9T8/24FR10/850	5000K	9	1,133	17	Bi-Pin (G13)	I	2-ft /24"	325°	
5953	LED15T8/36FR16/840	4000K	15	1,600	25	Bi-Pin (G13)	I	3-ft /36"	325°	
5954	LED15T8/36FR16/850	5000K	15	1,600	25	Bi-Pin (G13)	I	3-ft /36"	325°	
5955	LED15T8/FR18/840G1	4000K	15	1,960	32	Bi-Pin (G13)	I	4-ft /48"	325°	•
5956	LED15T8/FR18/850G1	5000K	15	1,945	32	Bi-Pin (G13)	I	4-ft /48"	325°	•
5958	LED43T8/96FR55/840	4000K	43	5,500	110	Single Pin	III	8-ft /96"	325°	•
5959	LED43T8/96FR55/850	5000K	43	5,500	110	Single Pin	III	8-ft /96"	325°	•
5960	LED43T8/96FR55/R17D/840	4000K	43	5,500	110	R17d	II	8-ft /96"	325°	
5961	LED43T8/96FR55/R17D/850	5000K	43	5,500	110	R17d	II	8-ft /96"	325°	

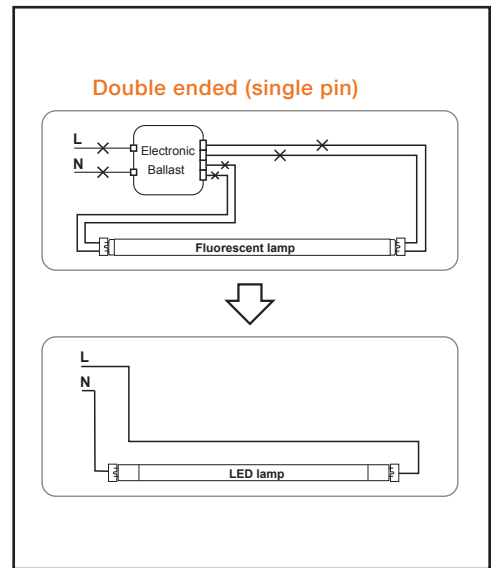
Wiring method - I



Wiring method - II

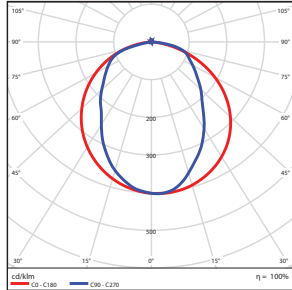


Wiring method - III



Photometric Data

T5- 4ft - 25W



Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	3759.22	29.60
0-40	5951.55	46.90
0-60	9962.64	78.60
60-80	2411.29	19.00
70-80	945.41	7.50
90-120	27.53	0.20
90-180	94.45	0.70
0-180	12682.38	100.00

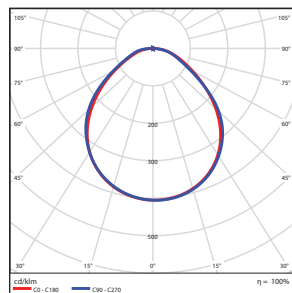
Total Luminaire Efficiency = 100.00%

Illuminance at a Distance

	Center Beam fc	Beam Width	
5.0ft	204 fc	15.4 ft	8.9 ft
10.0ft	50.9 fc	30.9 ft	17.9 ft
15.0ft	22.6 fc	46.3 ft	26.8 ft
20.0ft	12.7 fc	61.8 ft	35.7 ft
25.0ft	8.15 fc	77.2 ft	44.7 ft
30.0ft	5.66 fc	92.7 ft	53.6 ft

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

T8- 4ft - 14W



Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	918.44	31.30
0-40	1487.21	50.70
0-60	2462.88	83.90
60-80	415.52	14.20
70-80	152.45	5.20
90-120	1.00	0.00
90-180	2.80	0.10
0-180	2935.11	100.00

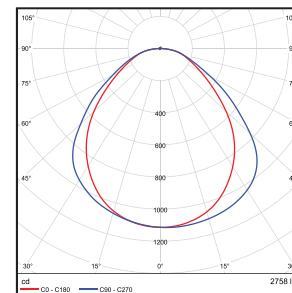
Total Luminaire Efficiency = 100.00%

Illuminance at a Distance

	Center Beam fc	Beam Width	
5.0ft	47.6 fc	11.7 ft	12.2 ft
10.0ft	11.9 fc	23.3 ft	24.3 ft
15.0ft	5.29 fc	35.0 ft	36.5 ft
20.0ft	2.97 fc	46.7 ft	48.7 ft
25.0ft	1.90 fc	58.3 ft	60.9 ft
30.0ft	1.32 fc	70.0 ft	73.0 ft

■ Vert. Spread: 98.8°  
■ Horiz. Spread: 101.2°

T8- 2ft - 9W



Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	869.70	31.50
0-40	1417.43	51.40
0-60	2333.3	84.60
60-80	373.27	13.50
70-80	137.76	5.00
90-120	2.29	0.10
90-180	5.86	0.20
0-180	2758.28	100.00

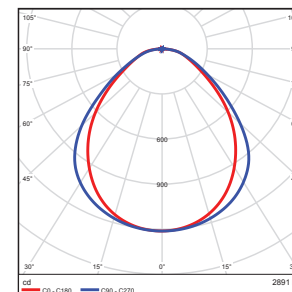
Total Luminaire Efficiency = 100.00%

Illuminance at a Distance

	Center Beam fc	Beam Width	
5.0ft	44.5 fc	10.7 ft	13.1 ft
10.0ft	11.1 fc	21.4 ft	26.1 ft
15.0ft	4.95 fc	32.2 ft	39.2 ft
20.0ft	2.78 fc	42.9 ft	52.3 ft
25.0ft	1.78 fc	53.6 ft	65.3 ft
30.0ft	1.24 fc	64.3 ft	78.4 ft

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

T8 - 4ft - 15W



Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	959.89	31.50
0-40	1560.06	51.20
0-60	2567.65	84.20
60-80	428.29	14.00
70-80	159.90	5.20
90-120	0.00	0.00
90-180	0.00	0.00
0-180	3048.52	100.00

Total Luminaire Efficiency = 100.00%

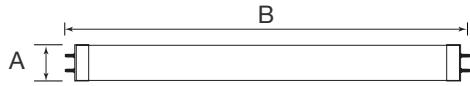
Illuminance at a Distance

	Center Beam fc	Beam Width	
5.0ft	204 fc	15.4 ft	8.9 ft
10.0ft	50.9 fc	30.9 ft	17.9 ft
15.0ft	22.6 fc	46.3 ft	26.8 ft
20.0ft	12.7 fc	61.8 ft	35.7 ft
25.0ft	8.15 fc	77.2 ft	44.7 ft
30.0ft	5.66 fc	92.7 ft	53.6 ft

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

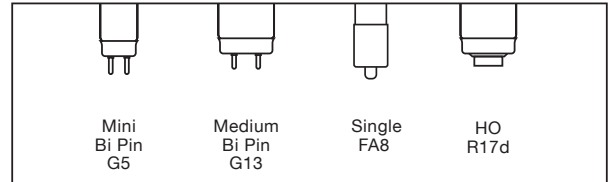
Product Dimensions

Tubes



Style	Length	A (Diameter)	B (Length)	Weight (lbs)
T5	4-ft	0.625" (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

Base



Package

T5  
T8 Universal

Package (Master)  
25

An illustration of a brown cardboard box with its top flaps open. Inside the box, a stack of 25 white tubes is visible, arranged in a grid of 5 rows and 5 columns. The tubes are standing upright.

T8 - 8ft

Package (Master)  
10

An illustration of a brown cardboard box with its top flaps open. Inside the box, a stack of 10 white tubes is visible, arranged in a single row of 10 tubes. The tubes are standing upright.