T8 LED TUBE

MODEL: LEDT81200ALD

LED Tube Lighting is the most prevalent light source among

Residential, Industrial and Commercial buildings, perfect fits to any industry.

OVERVIEW

* LM80 approved Philips SMD2835 LEDs with lifetime more than 50,000 hours.

* High brightness, lumen efficacy up to 120-160Lm/W.

* Soft and homogenous light.

* Easy installation with fast connection

* Idea replacement for traditional fluorescent tube.

* 3 years warranty, more than 50,000 hours reliable lifespan.

* 1.5KV Surge Protection, avoiding damage caused by voltage fluctuation and Lightning Strike.

25.8mm
600 /1200mm

PHYSICAL DATA

Dimension	D25.8*1200 mm
Lamp N.W.	175 g
LED Chip PCB	Aluminum
Material	30% Aluminum + 70% PC Cover
IP Rating	IP20
Endcap	G13

ELECTRICAL DATA

Wattage	18W
Power Factor	PF>0.95
Voltage	100-277VAC
Driver	Flicking
Input	One-side
Surge Protection	>1.5KV

OPTICAL DATA

Lumen Flux	>2160LM
Lamp Efficacy	>120Lm/W
LEDs	Philips SMD2835 (LM80)
CRI	>80
CCT	3000K /4000K /5000K /6500K
SDCM	<3
Beam Angle	120 Degree

LIFE DATA & OPERATING DATA

Lifetime of Lamp	>50,000 hours (L70)
Lumen Maintenance	>95% after 10000 Hours
Warranty	3 Years
Working Temperature	-15℃+40℃
Recommend Install Height	<5M

PRODUCT STRUCTURE

LAMP BODY

30% Aluminum + 70% PC cover material

LED CHIP

Philips LEDs
High Efficacy, 120Lm/W
CRI>80 (CRI>90 /95 optional)

COVER

High quality PC cover
Uniform brightness
No dazzling, no light spot

DRIVER

Flicking (flicker-free optional)
PF>0.95, wide voltage design
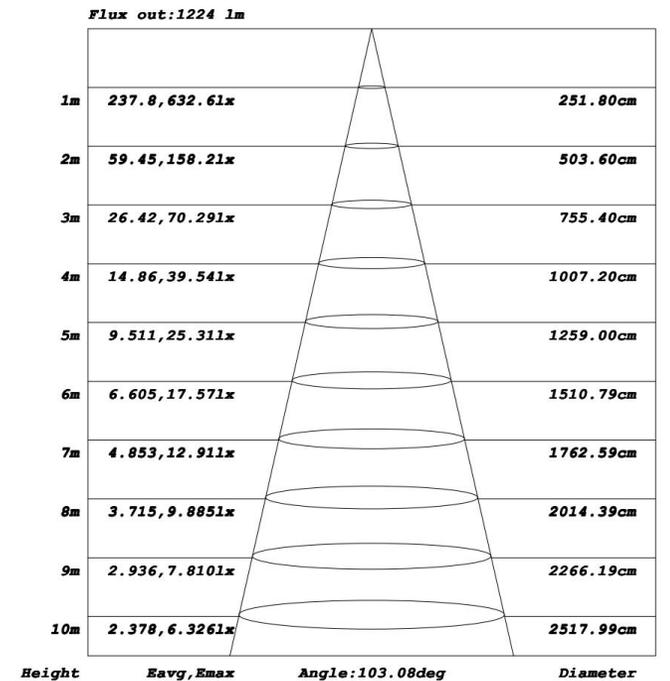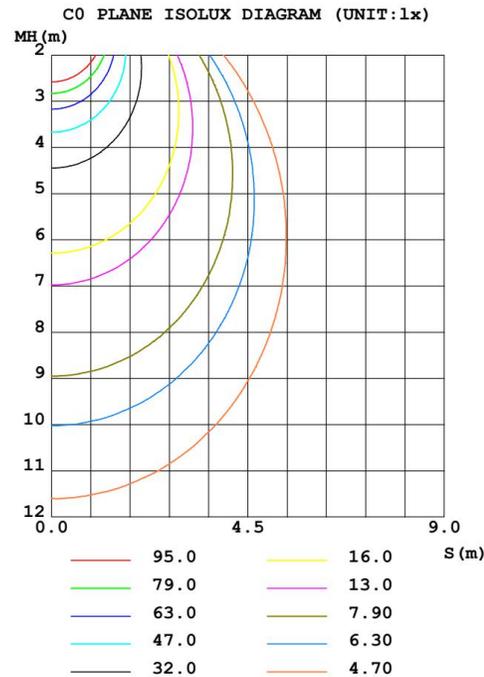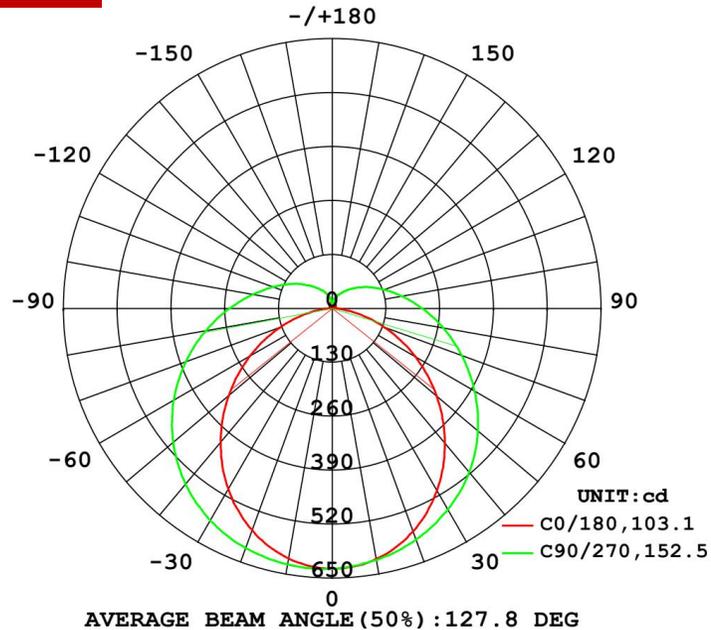1.5KV surge protection, stable output
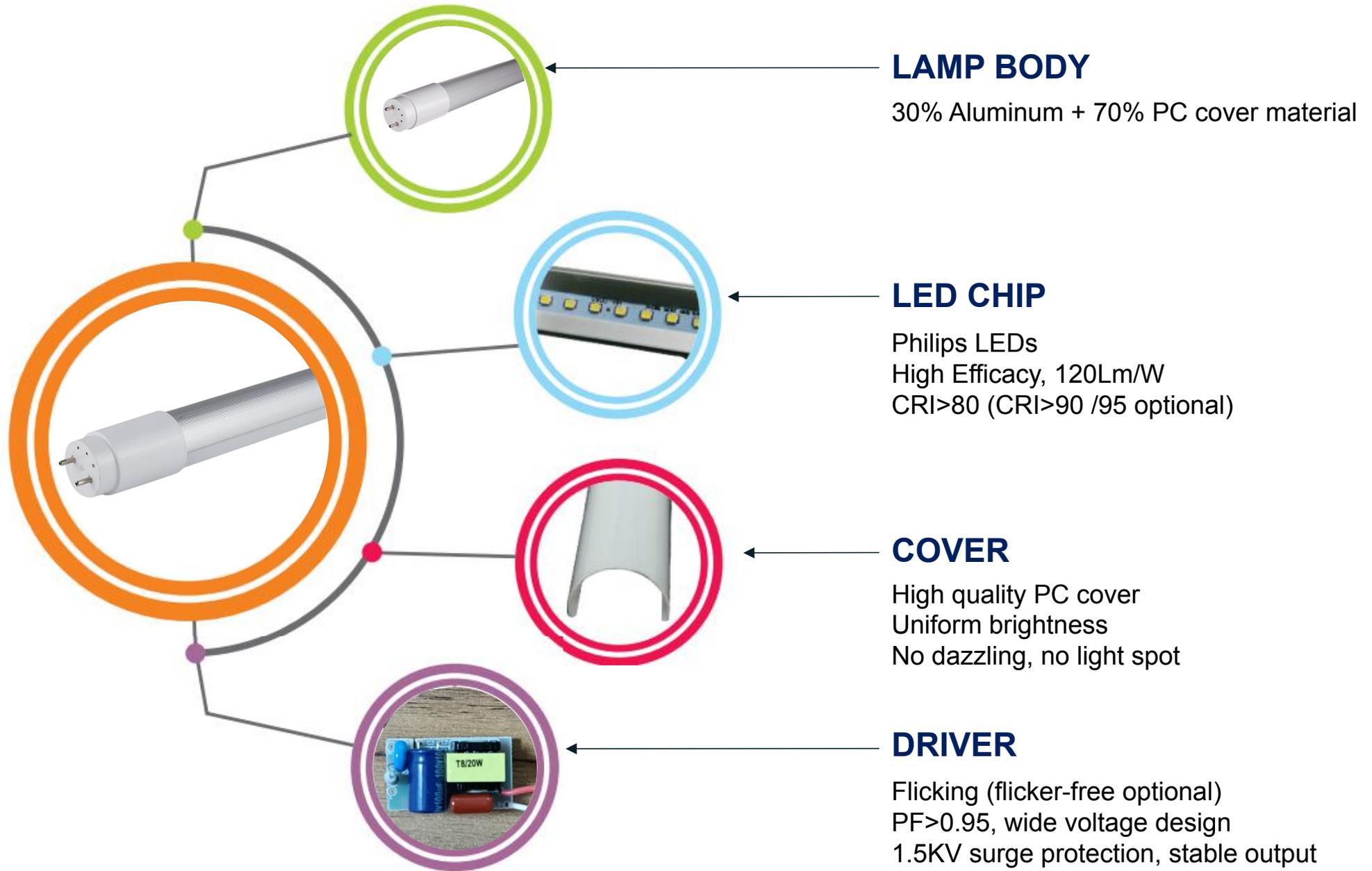
APPLICATION

Lighting area like the home lighting, industrial lighting-warehouse, factory, or commercial lighting-supermarket, restaurant

LIGHT DISTRIBUTION

UNIT:cd
C0/180,103.1
C90/270,152.5

AVERAGE BEAM ANGLE(50%):127.8 DEG

C0 PLANE ISOLUX DIAGRAM (UNIT:lx)
MH(m)
S(m)

95.0		16.0	
79.0		13.0	
63.0		7.90	
47.0		6.30	
32.0		4.70	

Flux out:1224 lm

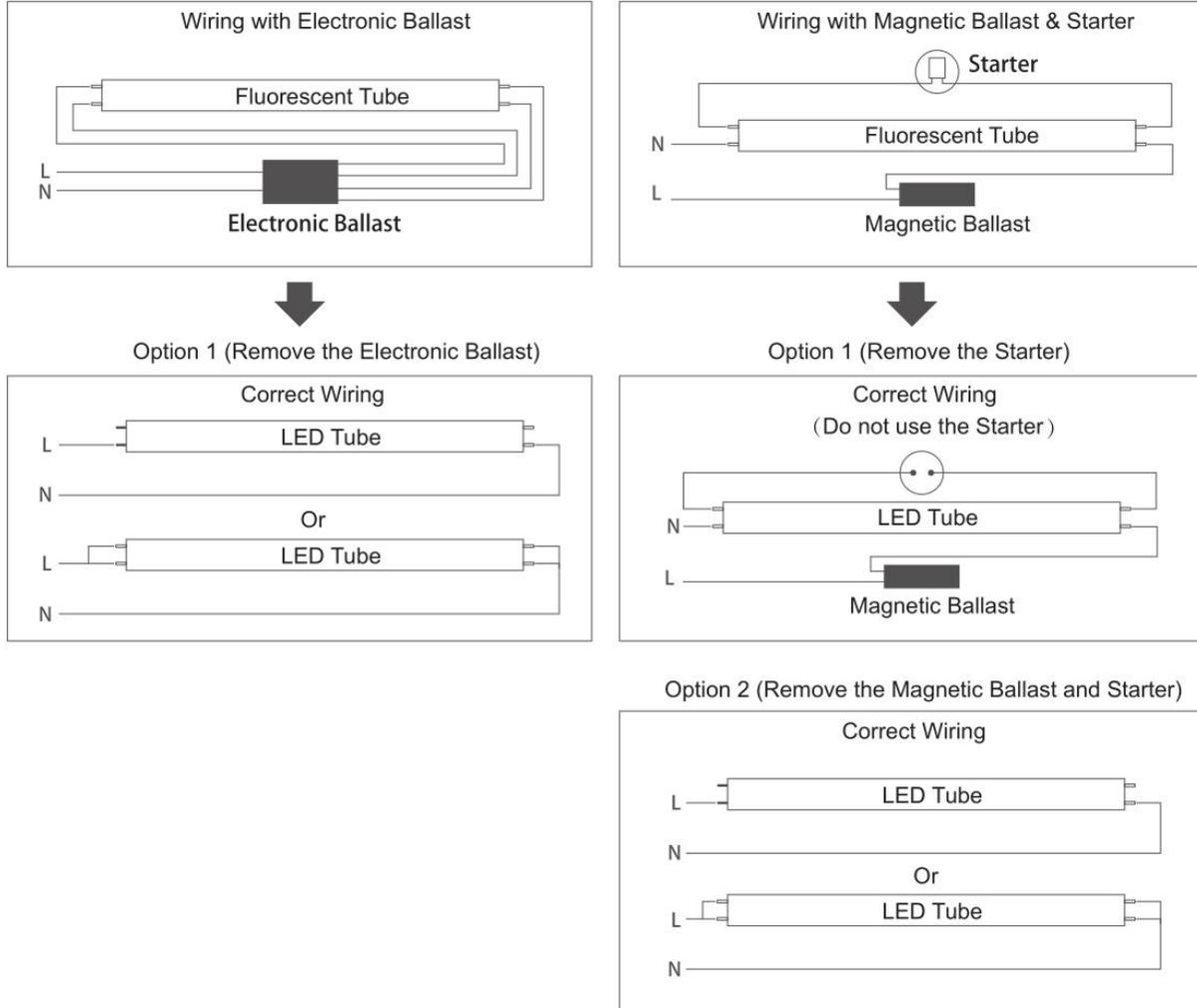| Height	Eavg,Emax	Diameter
1m	237.8,632.61x	251.80cm
2m	59.45,158.21x	503.60cm
3m	26.42,70.291x	755.40cm
4m	14.86,39.541x	1007.20cm
5m	9.511,25.311x	1259.00cm
6m	6.605,17.571x	1510.79cm
7m	4.853,12.911x	1762.59cm
8m	3.715,9.8851x	2014.39cm
9m	2.936,7.8101x	2266.19cm
10m	2.378,6.3261x	2517.99cm

Angle:103.08deg

Remark: Above test data base on 18W 120Lm/W CCT 5000K @AC220V testing environment.

INSTALLATION

1. Before installation, power supply must be shut down to ensure safety.
2. Do not operate with traditional dimmer, electric switches and remote controls.
3. Use only in specified nominal voltage and temperature range.

PACKING

Size	QTY/CTN	Box Size	CTN Size	N.W./CTN	G.W./CTN
1200 MM	30 PCS	28*28*1219 MM	122.6*19.5*16.5 CM	5.24 KG	7.63 KG

TWO-SIDES POWER SUPPLY TUBE

Wiring with Electronic Ballast

Fluorescent Tube

L
N

Electronic Ballast

Wiring with Magnetic Ballast & Starter

Starter

N

Fluorescent Tube

L

Magnetic Ballast

Option 1 (Remove the Electronic Ballast)

Correct Wiring

L

LED Tube

N

Or

L

LED Tube

N

Option 1 (Remove the Starter)

Correct Wiring
（Do not use the Starter）

N

LED Tube

L

Magnetic Ballast

Option 2 (Remove the Magnetic Ballast and Starter)

Correct Wiring

L

LED Tube

N

Or

L

LED Tube

N

ONE-SIDE POWER SUPPLY TUBE

Wiring with Electronic Ballast

Fluorescent Tube

L
N

Electronic Ballast

Wiring with Magnetic Ballast & Starter

Starter

N

Fluorescent Tube

L

Magnetic Ballast

Option 1 (Remove the Electronic Ballast)

Correct Wiring

L

LED Tube

N

Option 1 (Replace the Starter with Fuse)

Correct Wiring

Fuse

N

LED Tube

L

Magnetic Ballast

Option 2 (Remove the Magnetic Ballast and Starter)

Correct Wiring

L

LED Tube

N