



**NATIONSTAR**  
—SINCE 1969—



**NATIONSTAR**  
—SINCE 1969—

# **LED LIGHTING**

## CATALOGUE

### **FOSHAN NATIONSTAR OPTOELECTRONICS CO.,LTD**

Add: No.18 South Huabao Road, Chancheng District, Foshan,Guangdong,P.R.China  
Tel: 0086-757-82100230 82109310  
Fax: 0086-757-82100200  
P.C: 528000  
Web: [www.nationstar.com](http://www.nationstar.com)  
E-Mail: [ledsales@nationstar.com](mailto:ledsales@nationstar.com)

### **Nationstar GmbH**

Kurfürstenstraße 10, 40211, Düsseldorf, Germany  
Tel: +49 (0) 211 91366663  
Fax: +49 (0) 211 91366661  
E-Mail: [jonny@nationstar.com](mailto:jonny@nationstar.com)

# 2016

*NATIONSTAR, LIGHTING UP THE WORLD*



**NATIONSTAR**  
LIGHTING UP THE WORLD | **2016**

## 01 BRIEF INTRODUCTION

Foshan NationStar Optoelectronics Co.,Ltd has been specializing in LED industry for over 30 years, and started LED lighting manufacturing since 2004. With a strong R&D ability, reliable product quality and excellent after-sales service, NationStar becomes a leading manufacturer for chips, LEDs and LED lighting products.



### The Northern Area of The Headquarter

Land area: 26000 sqm.

Plant for LED components and devices

### The Southern Area of The Headquarter

Land area: 34600 sqm.

Production for LED and lighting products

Production capacity of LEDs: 4000KK per month



### Foshan NationStar Semiconductor Co.,Ltd.

Land area: 32000 sqm.

The production base of GaN LED chips for lighting

## 02 INDUSTRIAL CHAIN



Chip

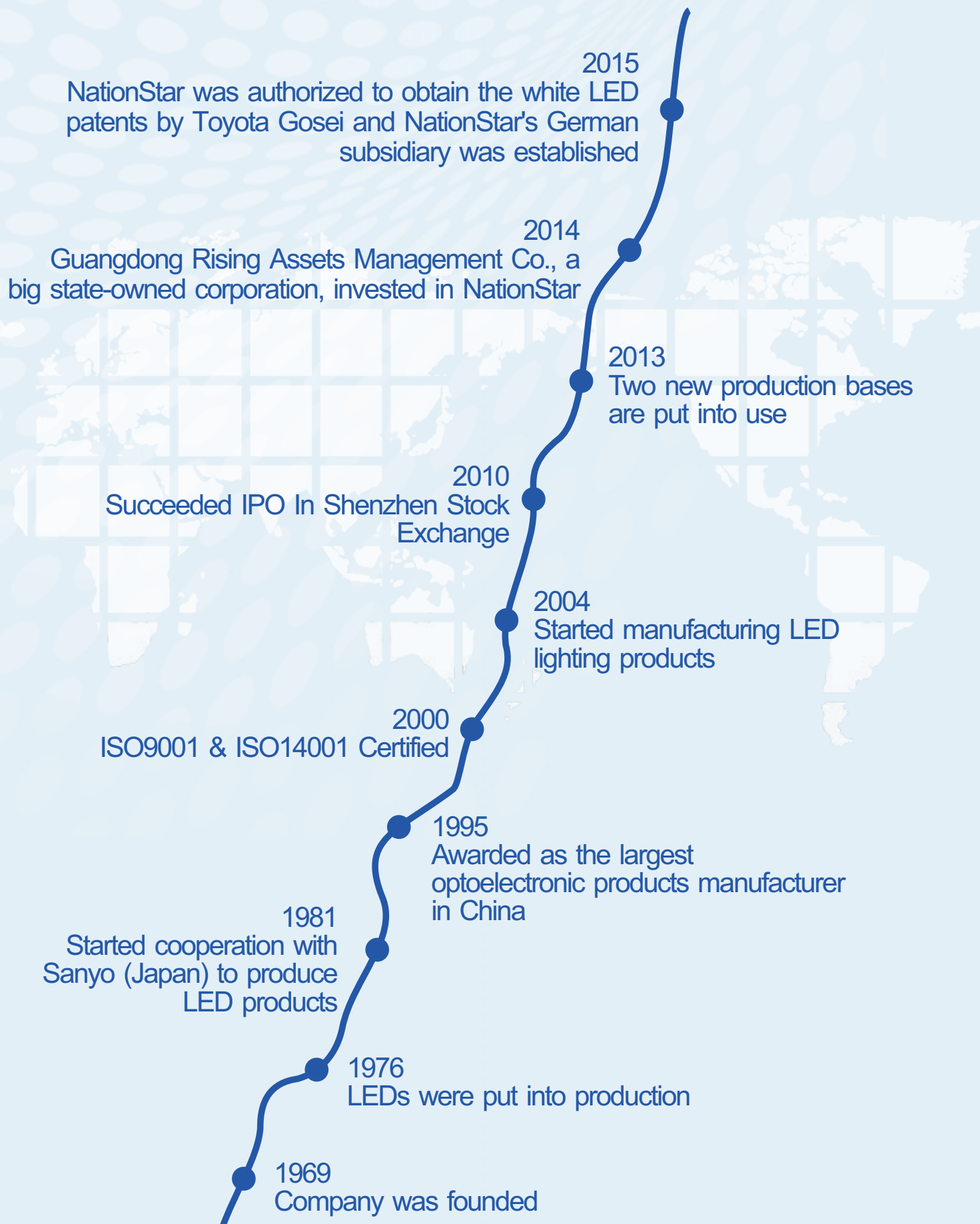


LED



Lighting product

## 03 HISTORY



## 04 PRODUCTION FACILITIES



Production Line for Chips



SMD LED Package



SMT Production Line



Automatic Production Line for Tubes



Aging Line for Tubes



2m Integrating Sphere

## 05 MANAGEMENT SYSTEMS

OHSAS18001  
occupation  
health and safety  
management systemISO9001  
quality management  
systemISO14001  
environmental  
management systemISO-TS16949  
quality management  
system

CONTENT

| 01 | LED TUBE                                | NS-T8  |
|----|-----------------------------------------|--------|
|    | T8-H Glass Tube (TUV)                   | 07     |
|    | T8-H Glass Tube (CE)                    | 08     |
|    | T8-H Glass Tube By Pass (cULus/DLC)     | 09     |
|    | T8-H Glass Tube Instant Fit (cULus/DLC) | 10     |
|    | T8-H Glass Tube (Inmetro)               | 11     |
|    | T8 Series 1/2 AL(CE)                    | 12     |
|    | T8 Series 1/2 AL                        | 13     |
|    | T8 Tube with IR Sensor                  | 14     |
|    | T8 Tubes Installation Instruction       | 15     |
|    | T5-JFE Series                           | 16     |
| 02 | LED PANEL                               | NS-PLS |
|    | PLS Series (GS)                         | 18     |
|    | PLS Series (CE)                         | 19     |
|    | PLS Series (cULus/DLC)                  | 20     |
|    | Troffer (cULus/DLC)                     | 21     |
|    | Slim Panel                              | 22     |
|    | PLS Lamp Installation Instruction (TUV) | 24     |
|    | PLS Lamp Installation Instruction (UL)  | 25     |



| 03 | LED CEILING LIGHT                           | NS-XDD   |
|----|---------------------------------------------|----------|
|    | B Series                                    | 27       |
| 04 | LED BULB                                    | NS-A60   |
|    | NS-A60-C7LS/C9LS/C12LS                      | 29       |
| 05 | LED DOWNLIGHT                               | NS-KD1-C |
|    | NS-KD1-C5/C9/C15                            | 31       |
|    | NS-KD1-C20/C30                              | 32       |
|    | NS-TD2.5-H5/NS-TD3-H7/NS-TD4-H10/NS-TD5-H15 | 33       |
|    | NS-TD6-H15/NS-TD6-H20                       | 34       |
|    | NS-TD8-H20/NS-TD8-H30                       | 35       |
|    | NS-TD2.5-P4/NS-TD3-P6/NS-TD4-P8/NS-TD6-P12  | 36       |





01 LED TUBE

02 LED PANEL

03 LED CEILING LIGHT

04 LED BULB

05 LED DOWNLIGHT



# LED TUBE

## T8-H Glass Tube (TUV)

### FEATURES

- Ultra bright SMD LED.
- Solutions for dimming system.
- TUV certified.

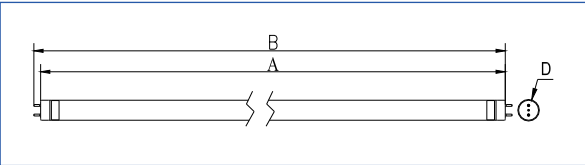
G13 caps

AC230V

300°

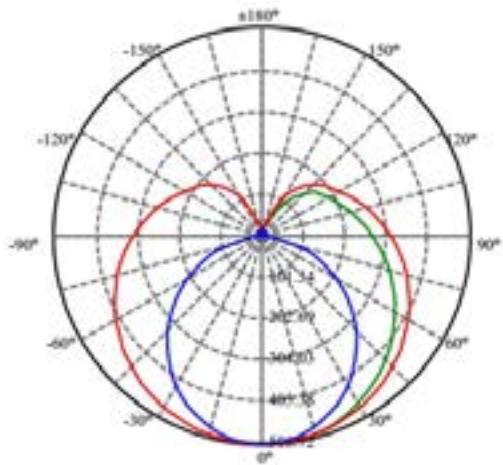
IP20

Dimensions: Unit:mm

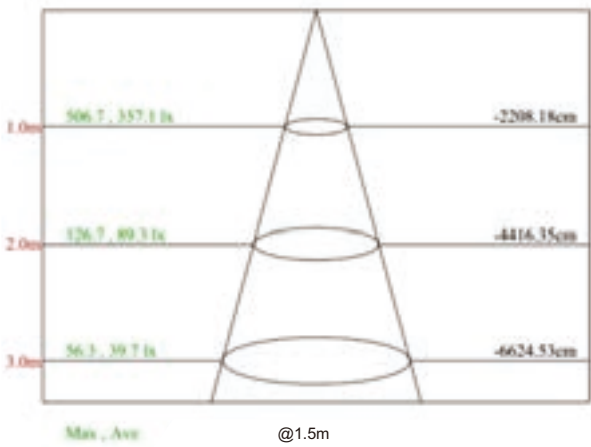


| Length | A     | B      |        | D   |
|--------|-------|--------|--------|-----|
|        | Max   | Min    | Max    |     |
| 0.6m   | 589.8 | 594.5  | 596.9  | Ø26 |
| 0.9m   | 894.6 | 899.5  | 901.5  | Ø26 |
| 1.2m   | 1199  | 1204.5 | 1206.5 | Ø26 |
| 1.5m   | 1499  | 1505   | 1507   | Ø26 |

Light distribution curve



Lux distance curve



### TECHNICAL PARAMETERS

| Order No.  | Length(mm) | Input voltage(V) | Power(W) | Lumen(lm) | CCT(K)         | CRI | PF  |
|------------|------------|------------------|----------|-----------|----------------|-----|-----|
| NS-T8-2H9  | 600        | AC 230           | 9        | 1000      | 3000/4000/6500 | ≥80 | 0.9 |
| NS-T8-3H15 | 900        | AC 230           | 15       | 1500      | 3000/4000/6500 | ≥80 | 0.9 |
| NS-T8-4H18 | 1200       | AC 230           | 18       | 1800      | 3000/4000/6500 | ≥80 | 0.9 |
| NS-T8-5H28 | 1500       | AC 230           | 28       | 2800      | 3000/4000/6500 | ≥80 | 0.9 |



# LED TUBE

## T8-H Glass Tube (CE)

### FEATURES

- Ultra bright SMD LED.
- Solutions for dimming system.
- CE & RoHS certified.

G13 caps

AC230V

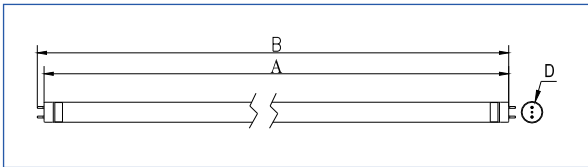
300°

IP20

NO Flicker

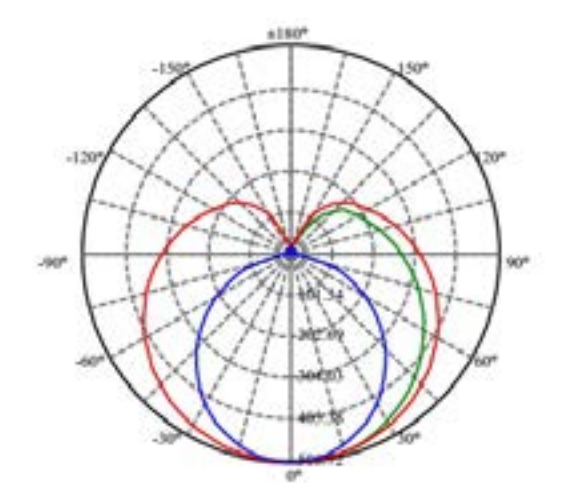


Dimensions: Unit:mm

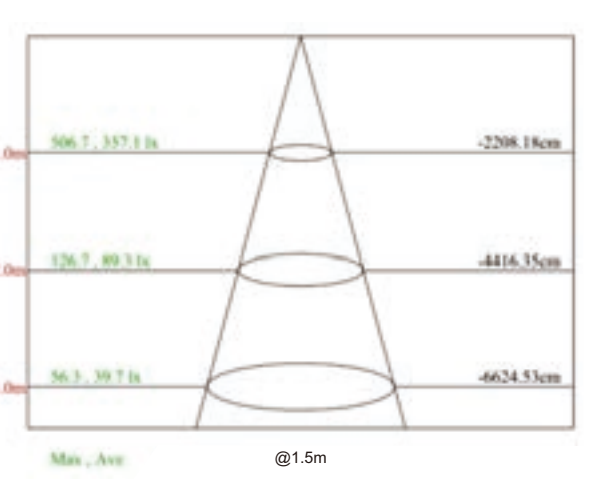


| Length | A     | B      |        | D   |
|--------|-------|--------|--------|-----|
|        | Max   | Min    | Max    |     |
| 0.6m   | 589.8 | 594.5  | 596.9  | Ø26 |
| 0.9m   | 894.6 | 899.5  | 901.5  | Ø26 |
| 1.2m   | 1199  | 1204.5 | 1206.5 | Ø26 |
| 1.5m   | 1499  | 1505   | 1507   | Ø26 |

Light distribution curve



Lux distance curve



### TECHNICAL PARAMETERS

| Order No.  | Length(mm) | Input voltage(V) | Power(W) | Lumen(lm) | CCT(K)         | CRI |
|------------|------------|------------------|----------|-----------|----------------|-----|
| NS-T8-2H9  | 600        | AC 230           | 9        | 1000      | 3000/4000/6500 | ≥80 |
| NS-T8-3H14 | 900        | AC 230           | 14       | 1400      | 3000/4000/6500 | ≥80 |
| NS-T8-4H18 | 1200       | AC 230           | 18       | 1800      | 3000/4000/6500 | ≥80 |
| NS-T8-5H24 | 1500       | AC 230           | 24       | 2400      | 3000/4000/6500 | ≥80 |



# LED TUBE

## T8-H Glass Tube By Pass (cULus/DLC)

### FEATURES

- Ultra bright SMD LED.
- high efficiency and perfect replacement of the traditional fluorescent tube.
- cULus/DLC certified.

G13 caps

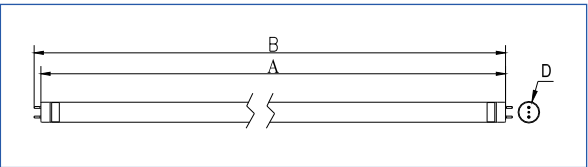
AC100-277V

300°

IP20

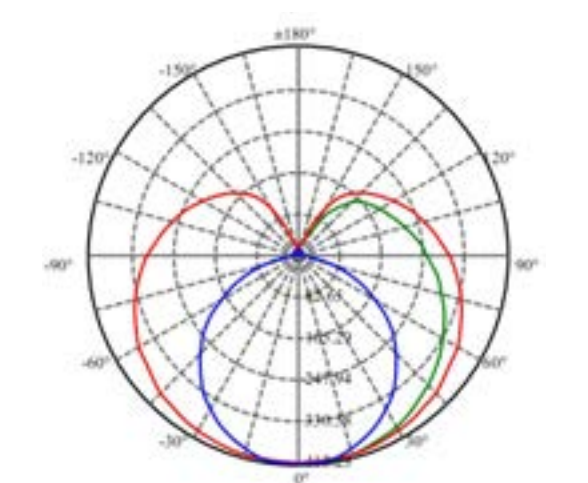


Dimensions: Unit:mm

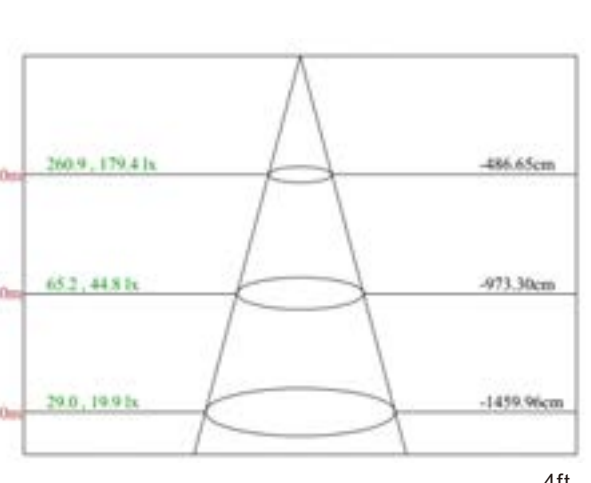


| Length | A     | B      |        | D   |
|--------|-------|--------|--------|-----|
|        | Max   | Min    | Max    |     |
| 0.6m   | 589.8 | 594.5  | 596.9  | Ø26 |
| 0.9m   | 894.6 | 899.5  | 901.5  | Ø26 |
| 1.2m   | 1199  | 1204.5 | 1206.5 | Ø26 |
| 1.5m   | 1499  | 1505   | 1507   | Ø26 |

Light distribution curve



Lux distance curve



### TECHNICAL PARAMETERS

| Order No.  | Length(ft) | Input voltage(V) | Power(W) | Lumen(lm) | CCT(K)                   | CRI | PF   |
|------------|------------|------------------|----------|-----------|--------------------------|-----|------|
| NS-T8-2H9  | 2          | AC 100-277       | 9        | 1000      | 3000/3500/4000/5000/6500 | ≥80 | >0.9 |
| NS-T8-3H15 | 3          | AC 100-277       | 15       | 1600      | 3000/3500/4000/5000/6500 | ≥80 | >0.9 |
| NS-T8-4H18 | 4          | AC 100-277       | 18       | 2000      | 3000/3500/4000/5000/6500 | ≥80 | >0.9 |
| NS-T8-5H28 | 4          | AC 100-277       | 28       | 2800      | 3000/3500/4000/5000/6500 | ≥80 | >0.9 |



# LED TUBE

## T8-H Glass Tube Instant Fit (cULus/DLC)

FEATURES

- Ultra bright SMD LED.
- Compatible with most instant start electronic T8 ballasts.
- Not compatible with magnetic ballast and mains.
- cULus/DLC certified.

G13 caps

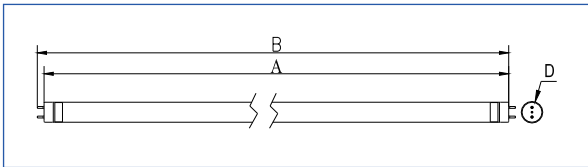
AC120-277V

300°

IP20

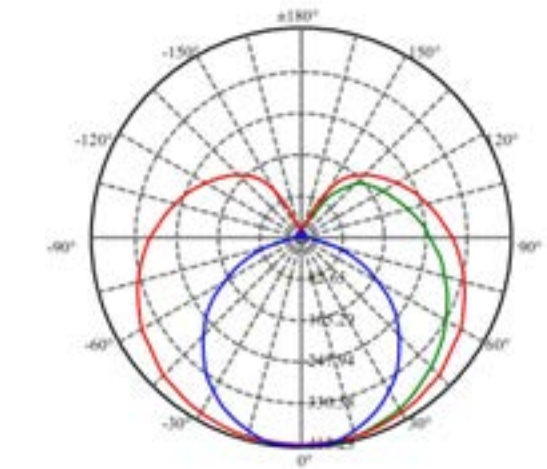


Dimensions: Unit:mm

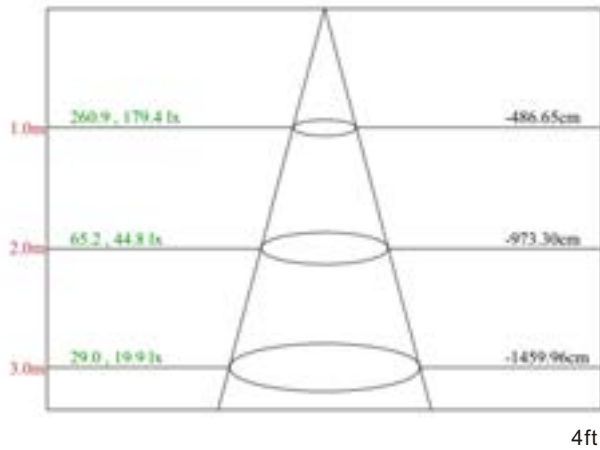


| Length | A     | B      |        | D   |
|--------|-------|--------|--------|-----|
|        | Max   | Min    | Max    |     |
| 0.6m   | 589.8 | 594.5  | 596.9  | Ø26 |
| 1.2m   | 1199  | 1204.5 | 1206.5 | Ø26 |

Light distribution curve



Lux distance curve



TECHNICAL PARAMETERS

| Order No. | Length (ft) | CCT(K)                   | CRI | Bare Lamp Watts(W)        |                              | Average System Watts(W)   |                              | Initial Lumens (lm)       |                              |
|-----------|-------------|--------------------------|-----|---------------------------|------------------------------|---------------------------|------------------------------|---------------------------|------------------------------|
|           |             |                          |     | Low Ballast Factor (0.78) | Normal Ballast Factor (0.88) | Low Ballast Factor (0.78) | Normal Ballast Factor (0.88) | Low Ballast Factor (0.78) | Normal Ballast Factor (0.88) |
| NS-T8-2HB | 2           | 3000/3500/4000/5000/6500 | ≥80 | 7                         | 8                            | 9                         | 10                           | 900                       | 1000                         |
| NS-T8-4HB | 4           | 3000/3500/4000/5000/6500 | ≥80 | 10                        | 12                           | 13                        | 15                           | 1600                      | 1700                         |



# LED TUBE

## T8-H Glass Tube (Inmetro)

FEATURES

- Ultra bright SMD LED.
- high efficiency and perfect replacement of the traditional fluorescent tube.
- Inmetro certified.

G13 caps

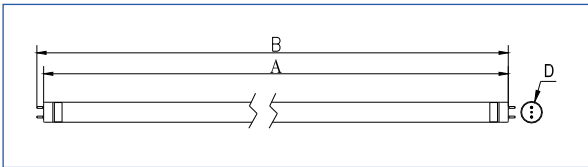
AC100-240V

300°

IP20

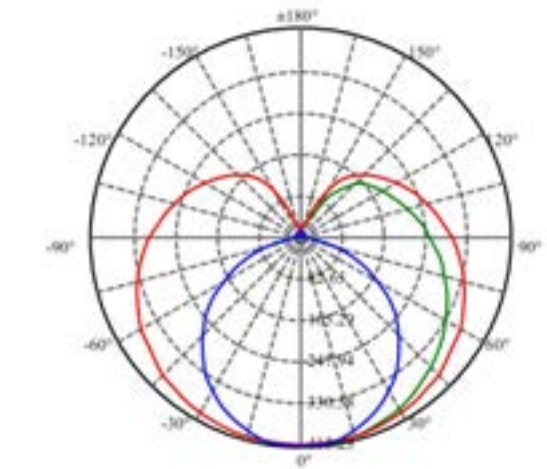


Dimensions: Unit:mm

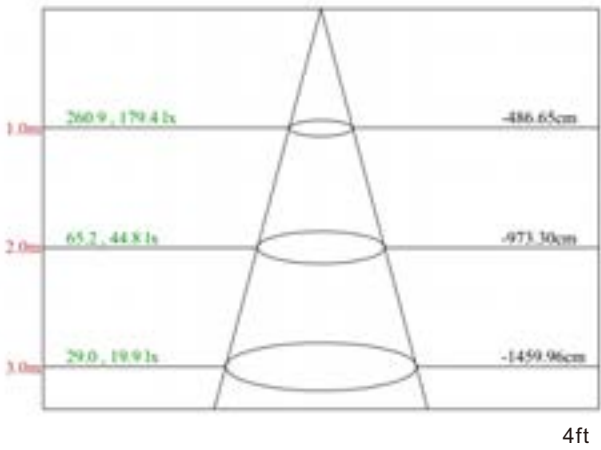


| Length | A     | B      |        | D   |
|--------|-------|--------|--------|-----|
|        | Max   | Min    | Max    |     |
| 0.6m   | 589.8 | 594.5  | 596.9  | Ø26 |
| 1.2m   | 1199  | 1204.5 | 1206.5 | Ø26 |

Light distribution curve



Lux distance curve



TECHNICAL PARAMETERS

| Order No.  | Length(mm) | Input voltage(V) | Power(W) | Lumen(lm) | CCT(K)              | CRI | PF    |
|------------|------------|------------------|----------|-----------|---------------------|-----|-------|
| NS-T8-2H9  | 600        | AC 100-240       | 10       | 900       | 3000/4000/5000/6500 | ≥80 | >0.92 |
| NS-T8-4H18 | 1200       | AC 100-240       | 18       | 1850      | 3000/4000/5000/6500 | ≥80 | >0.92 |



# LED TUBE

## T8 Series-1/2 AL(CE)

### FEATURES

- Ultra bright SMD LED.
- Solutions for dimming system, electronic ballast system.
- Coated with plastic and aluminum frame, with a good dissipation performance.

G13 caps

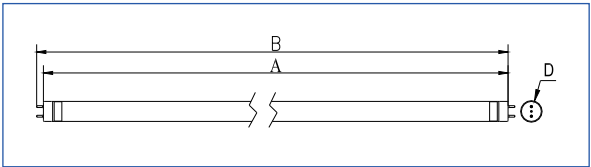
AC230V

120°

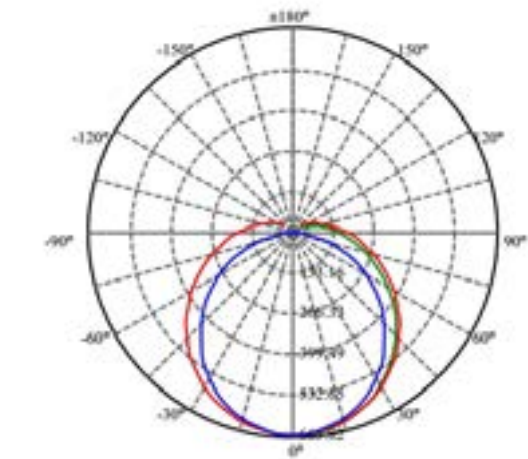
IP20



Dimensions: Unit:mm



Light distribution curve

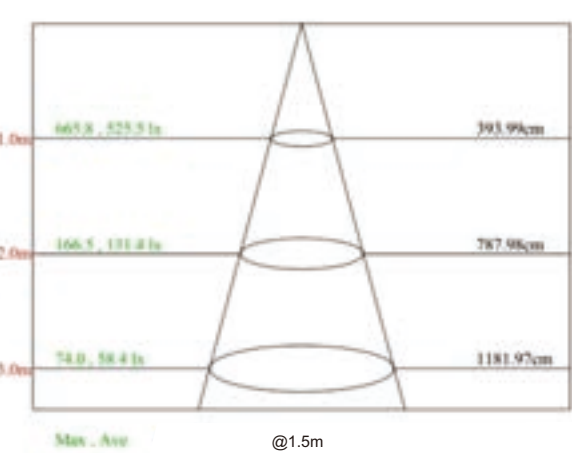


### TECHNICAL PARAMETERS

| Order No. | Length(mm) | Power(W) | Lumen(lm) | CCT(K)              | CRI | PF  |
|-----------|------------|----------|-----------|---------------------|-----|-----|
| NS-T8-2   | 600        | 9        | 1000      | 3000/4000/5000/6500 | ≥80 | 0.9 |
| NS-T8-3   | 900        | 15       | 1500      | 3000/4000/5000/6500 | ≥80 | 0.9 |
| NS-T8-4   | 1200       | 18       | 1800      | 3000/4000/5000/6500 | ≥80 | 0.9 |
| NS-T8-5   | 1500       | 28       | 2800      | 3000/4000/5000/6500 | ≥80 | 0.9 |

| Length | A     | B      |        | D   |
|--------|-------|--------|--------|-----|
|        | Max   | Min    | Max    |     |
| 0.6m   | 589.8 | 594.5  | 596.9  | Ø26 |
| 0.9m   | 894.6 | 899.5  | 901.5  | Ø26 |
| 1.2m   | 1199  | 1204.5 | 1206.5 | Ø26 |
| 1.5m   | 1499  | 1505   | 1507   | Ø26 |

Lux distance curve



# LED TUBE

## T8 Series-1/2 AL

### FEATURES

- Ultra bright SMD LED.
- Solutions for dimming system, electronic ballast system.

G13 caps

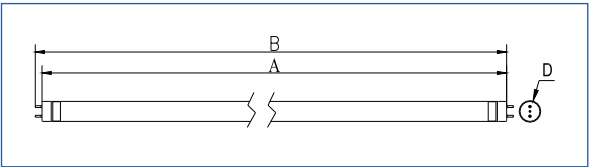
AC230V

120°

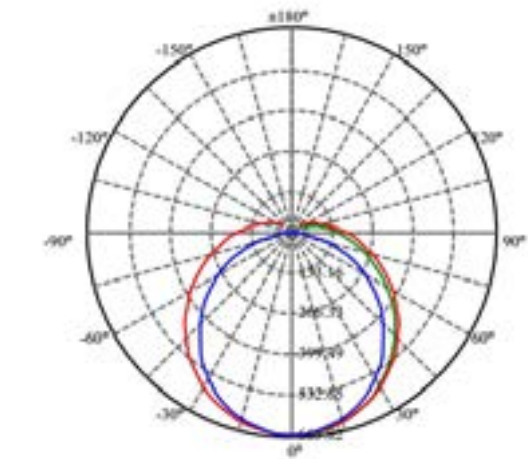
IP20



Dimensions: Unit:mm



Light distribution curve

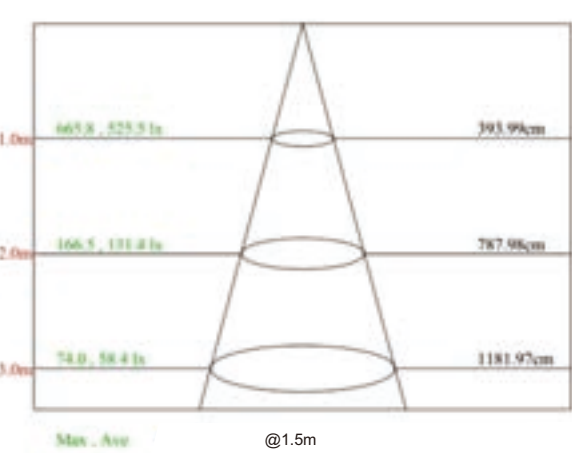


### TECHNICAL PARAMETERS

| Order No. | Length(mm) | Power(W) | Lumen(lm) | CCT(K)              | CRI | PF  |
|-----------|------------|----------|-----------|---------------------|-----|-----|
| NS-T8-2-B | 600        | 9        | 1000      | 3000/4000/5000/6500 | ≥80 | 0.9 |
| NS-T8-3   | 900        | 15       | 1500      | 3000/4000/5000/6500 | ≥80 | 0.9 |
| NS-T8-4   | 1200       | 18       | 1800      | 3000/4000/5000/6500 | ≥80 | 0.9 |
| NS-T8-5   | 1500       | 22       | 2200      | 3000/4000/5000/6500 | ≥80 | 0.9 |
| NS-T8-5-B | 1500       | 28       | 2800      | 3000/4000/5000/6500 | ≥80 | 0.9 |

| Length | A     | B      |        | D   |
|--------|-------|--------|--------|-----|
|        | Max   | Min    | Max    |     |
| 0.6m   | 589.8 | 594.5  | 596.9  | Ø26 |
| 0.9m   | 894.6 | 899.5  | 901.5  | Ø26 |
| 1.2m   | 1199  | 1204.5 | 1206.5 | Ø26 |
| 1.5m   | 1499  | 1505   | 1507   | Ø26 |

Lux distance curve



# LED TUBE

## T8 Tube with IR Sensor

### FEATURES

- Energy savings with IR detective function. Lamps are 100% on when people come, and only 1/3 power consumption after people leave.
- Quick, simple and safe replacement for T8 or T10 fluorescent tubes without rewiring on magnetic ballast luminaries.
- Robust and durable structure with AL heatsink.

G13 caps

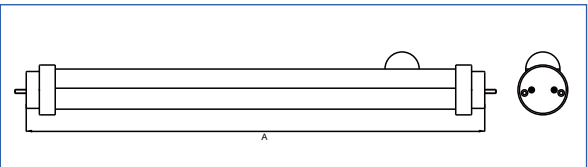
AC100-240V

120°

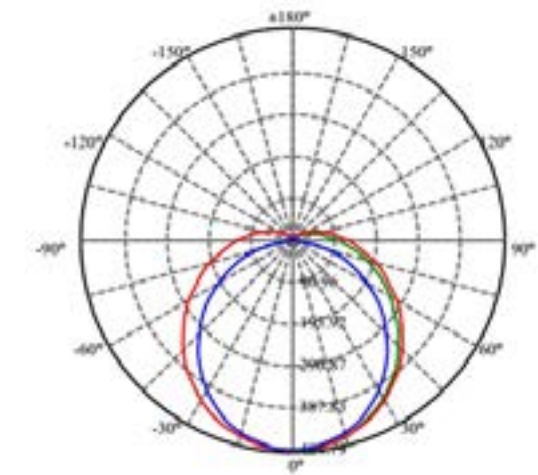
IP20



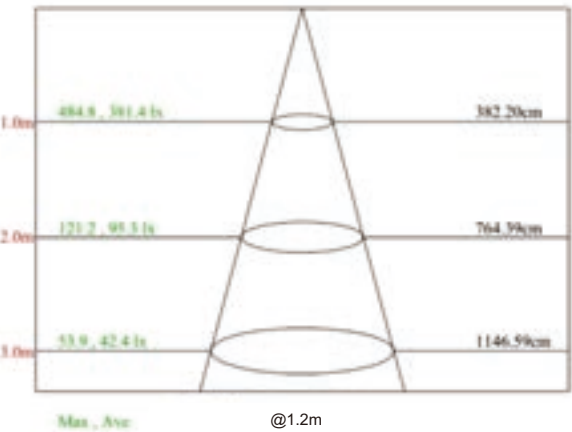
Dimensions: Unit:mm



Light distribution curve



Lux distance curve



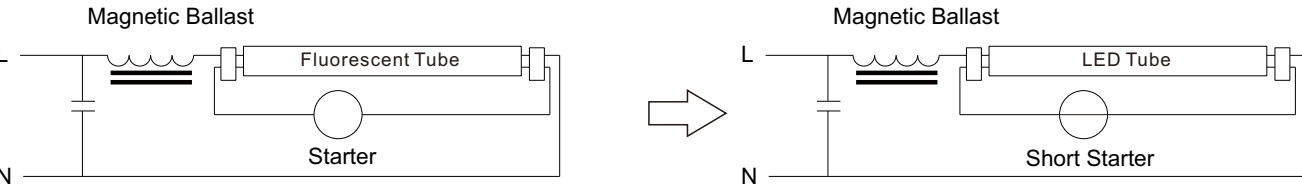
### TECHNICAL PARAMETERS

| Order No.      | Length(mm) | Power(W) | Lumen(lm) | CCT(K) | CRI | PF   | Certification |
|----------------|------------|----------|-----------|--------|-----|------|---------------|
| NS-T8-4B18(CW) | 1200       | 18       | 1800      | 6500   | ≥80 | >0.9 | CE            |
| NS-T8-4B18(NW) | 1200       | 18       | 1800      | 4000   | ≥80 | >0.9 | CE            |
| NS-T8-4B18(WW) | 1200       | 18       | 1650      | 3000   | ≥80 | >0.9 | CE            |

## T8 Tubes Installation Instruction

### 01 Single-end Tube Installation for TUV, SAA,UL(110V/277V),VDE tubes

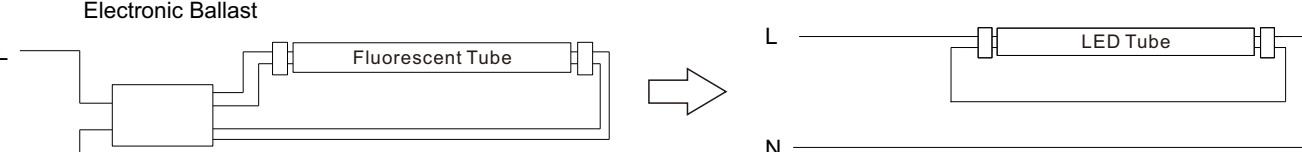
#### 1. Magnetic Ballast System



Steps:

- \* Cut off power supply
- \* Remove fluorescent tube and starter
- \* Install short starter and LED tube

#### 2. Electronic Ballast System

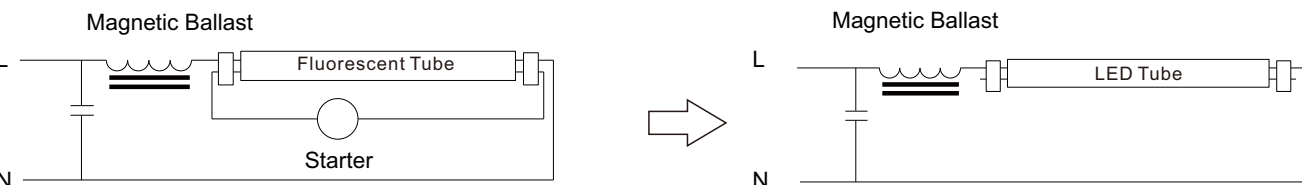


Steps:

- \* Cut off power supply
- \* Remove electronic ballast and do wiring as per above diagram
- \* Replace fluorescent tube with LED tube

### 02 Two-end Tube Installation for CE tubes

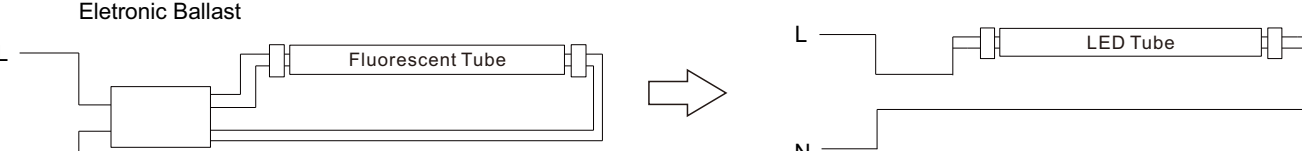
#### 1. Magnetic Ballast System



Steps:

- \* Cut off power supply
- \* Remove fluorescent tube and starter
- \* Install LED tube

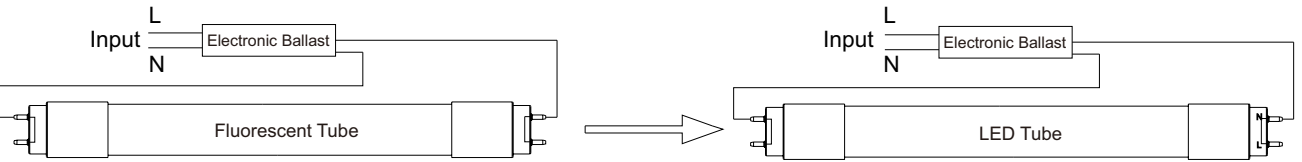
#### 2. Electronic Ballast System



Steps:

- \* Cut off power supply
- \* Remove electronic ballast and do wiring as per above diagram
- \* Replace fluorescent tube with LED tube

### 03 Two-end Tube Installation for Instant fit tubes





# LED TUBE

## T5-JFE Series

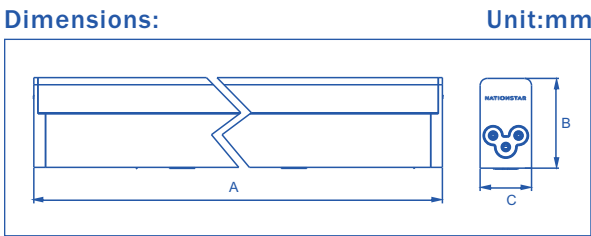
### FEATURES

- Ultra bright SMD LED as light source.
- All-plastic holder.
- Can be connected with each other with connectors.

AC230V

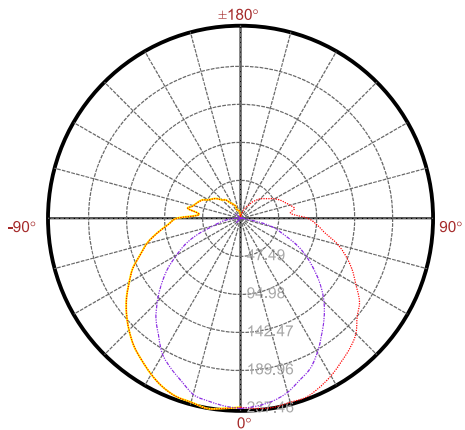
150°

IP20

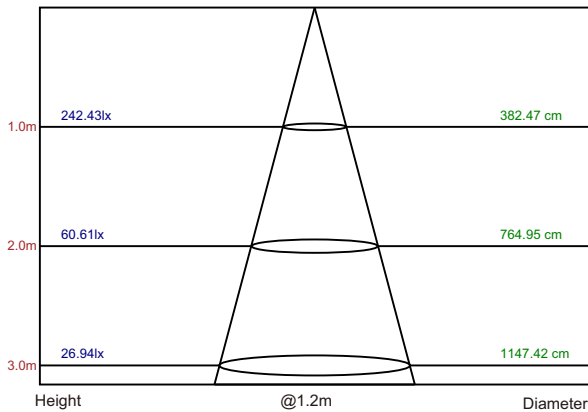


| Length | A    | B    | C    |
|--------|------|------|------|
| 0.3m   | 273  | 34.5 | 21.5 |
| 0.6m   | 573  | 34.5 | 21.5 |
| 0.9m   | 873  | 34.5 | 21.5 |
| 1.2m   | 1173 | 34.5 | 21.5 |

Light distribution curve



Lux distance curve



### TECHNICAL PARAMETERS

| Order No.  | Input voltage(V) | Power(W) | Lumen(lm) | CCT(K)              | CRI |
|------------|------------------|----------|-----------|---------------------|-----|
| NS-T5-1J4  | AC 230           | 4        | 400       | 3000/4000/5000/6500 | ≥80 |
| NS-T5-2J8  | AC 230           | 8        | 800       | 3000/4000/5000/6500 | ≥80 |
| NS-T5-3J12 | AC 230           | 12       | 1200      | 3000/4000/5000/6500 | ≥80 |
| NS-T5-4J16 | AC 230           | 16       | 1600      | 3000/4000/5000/6500 | ≥80 |



- 01 LED T8 TUBE
- 02 LED PANEL
- 03 LED CEILING LIGHT
- 04 LED BULB
- 05 LED DOWNLIGHT



LED PANEL

PLS Series(GS)

FEATURES

- High brightness SMD LED as light source.
- Thin lamp body, flexible installation.
- Constant current driver.

AC230V

120°

0-10V  
Optional

DALI  
Optional

IP20

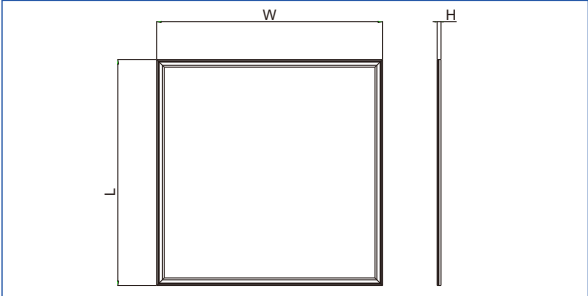
UGR<19  
available

No flicker  
Optional

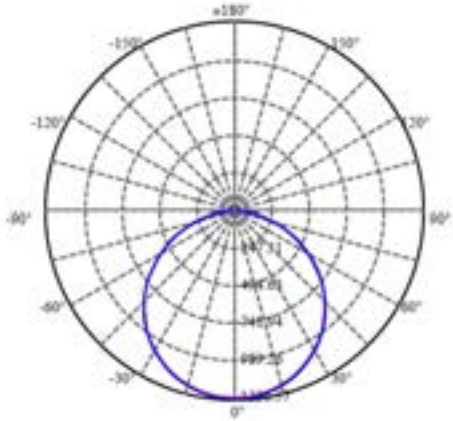
Motion sensor  
available



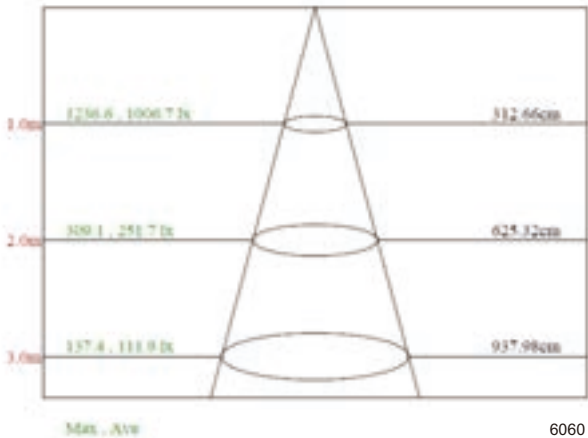
Dimensions: Unit:mm



Light distribution curve



Lux distance curve



TECHNICAL PARAMETERS

| Order No.        | Input voltage(V) | Power(W) | Lumen(lm) | CCT(K)         | CRI | PF  | Dimension(mm)      |
|------------------|------------------|----------|-----------|----------------|-----|-----|--------------------|
| NS-PLS4-6060B40  | AC 230           | 40       | 3800      | 3000/4000/6500 | 80  | 0.9 | L595 / W595 / H10  |
| NS-PLS2-30120B40 | AC 230           | 40       | 3600      | 3000/4000/6500 | 80  | 0.9 | L295 / W1195 / H10 |



LED PANEL

PLS Series(CE)

FEATURES

- High brightness SMD LED as light source.
- Thin lamp body, flexible installation.
- Constant current driver.

AC230V

120°

0-10V  
Optional

DALI  
Optional

IP20

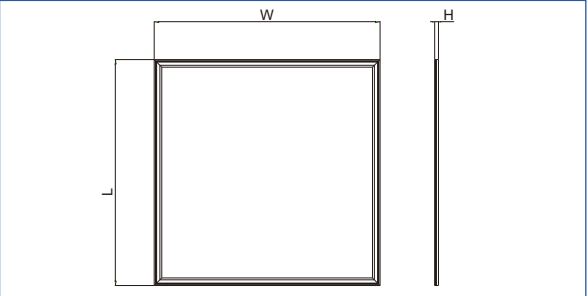
120lm/w  
available

No flicker  
Optional

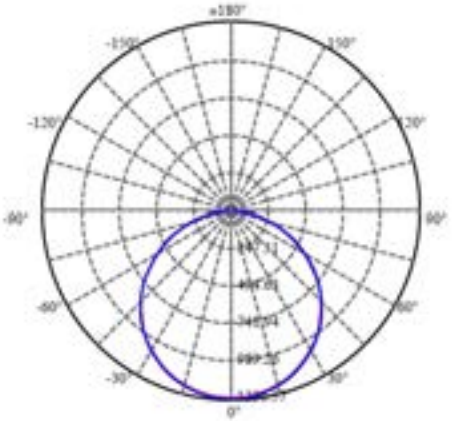
Motion sensor  
available



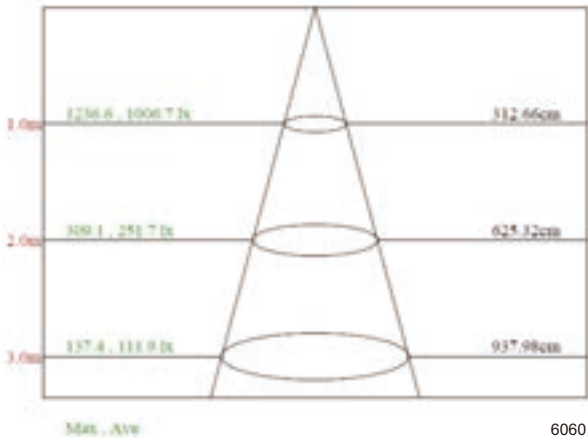
Dimensions: Unit:mm



Light distribution curve



Lux distance curve



TECHNICAL PARAMETERS

| Order No.     | Input voltage(V) | Power(W) | Lumen(lm) | CCT(K)         | CRI | PF  | Dimension(mm)      |
|---------------|------------------|----------|-----------|----------------|-----|-----|--------------------|
| NS-PLS2-6060  | AC 230           | 40       | 3800      | 3000/4000/6500 | 80  | 0.9 | L595 / W595 / H10  |
| NS-PLS2-6262  | AC 230           | 40       | 3800      | 3000/4000/6500 | 80  | 0.9 | L620 / W620 / H10  |
| NS-PLS2-30120 | AC 230           | 40       | 3600      | 3000/4000/6500 | 80  | 0.9 | L295 / W1195 / H10 |
| NS-PLS2-60120 | AC 230           | 72       | 5400      | 3000/4000/6500 | 80  | 0.9 | L595 / W1195 / H10 |



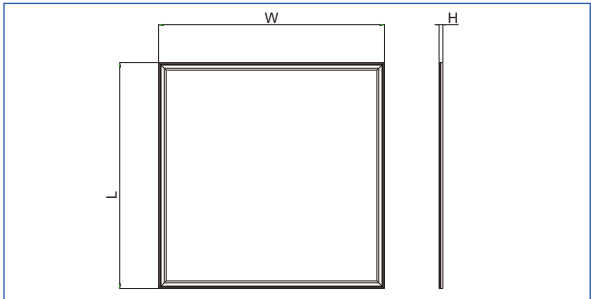
# LED PANEL

## PLS Series (cULus/DLC)

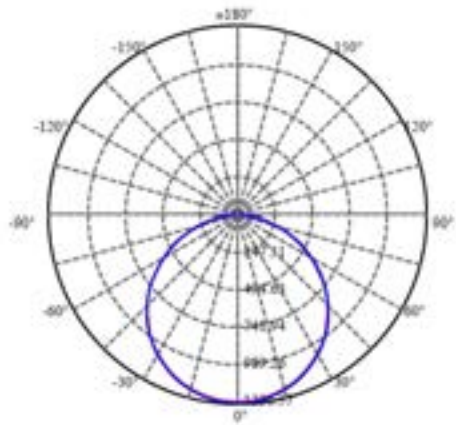
### FEATURES

- Edge lit LED panel with ultra bright SMD LED.
- non-dimmable or 0-10V dimmable available.
- Aluminum finish or white painted available.
- Can be recessed, pendant mounted or surface mounted.

Dimensions: Unit:mm



Light distribution curve



### TECHNICAL PARAMETERS

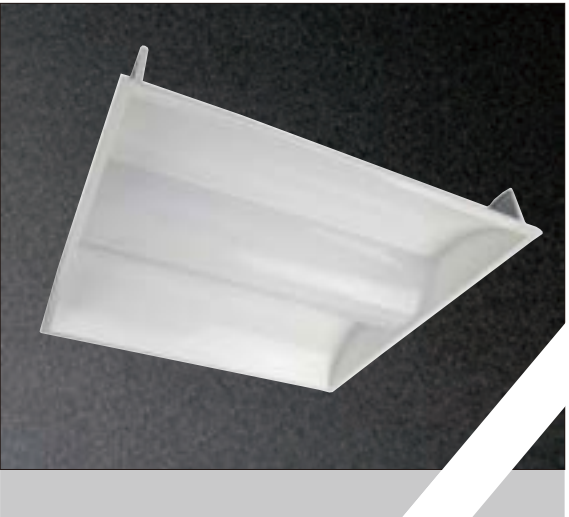
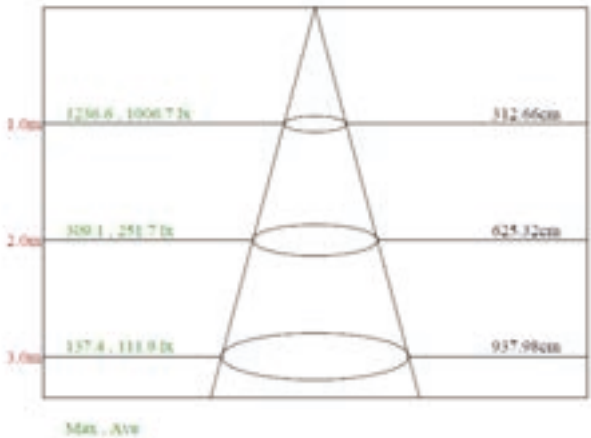
| Order No.      | Input voltage(V) | Power(W) | Lumen(lm) | CCT(K)                   | CRI | PF   | Dimension(in)    |
|----------------|------------------|----------|-----------|--------------------------|-----|------|------------------|
| NS-PLS-6060XW  | AC100-277        | 40       | 3800      | 3000/3500/4000/5000/6500 | ≥80 | >0.9 | 23.75*23.75*0.39 |
|                | AC100-277        | 50       | 4750      | 3000/3500/4000/5000/6500 | ≥80 | >0.9 | 23.75*23.75*0.39 |
| NS-PLS-30120XW | AC100-277        | 40       | 3600      | 3000/3500/4000/5000/6500 | ≥80 | >0.9 | 11.75*47.75*0.39 |
|                | AC100-277        | 50       | 4500      | 3000/3500/4000/5000/6500 | ≥80 | >0.9 | 11.75*47.75*0.39 |
| NS-PLS-60120XW | AC100-277        | 50       | 4500      | 3000/3500/4000/5000/6500 | ≥80 | >0.9 | 23.75*47.75*0.39 |
|                | AC100-277        | 60       | 5400      | 3000/3500/4000/5000/6500 | ≥80 | >0.9 | 23.75*47.75*0.39 |
|                | AC100-277        | 72       | 6480      | 3000/3500/4000/5000/6500 | ≥80 | >0.9 | 23.75*47.75*0.39 |

### APPLICATIONS

Widely used in offices, hotels, meeting rooms, schools, houses and other indoor places for high brightness lighting and energy-saving.



Lux distance curve



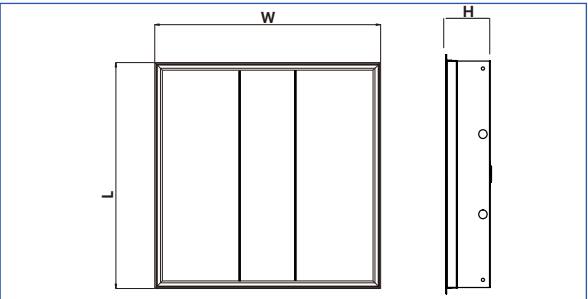
# LED PANEL

## Troffer (cULus/DLC)

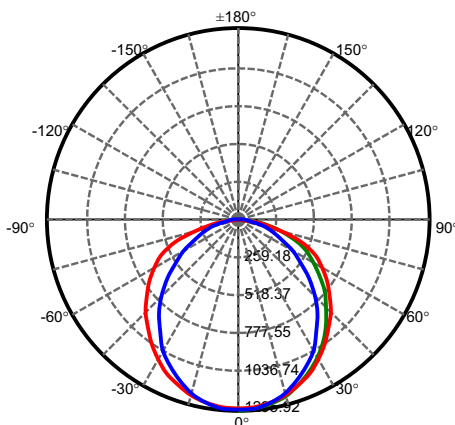
### FEATURES

- Direct lit LED troffer with ultra bright SMD LED.
- non-dimmable or 0-10V dimmable available.
- high efficiency and perfect replacement for fluorescent troffers in new or remodel construction.
- Can be recessed or pendant mounted.

Dimensions: Unit:mm



Light distribution curve



### TECHNICAL PARAMETERS

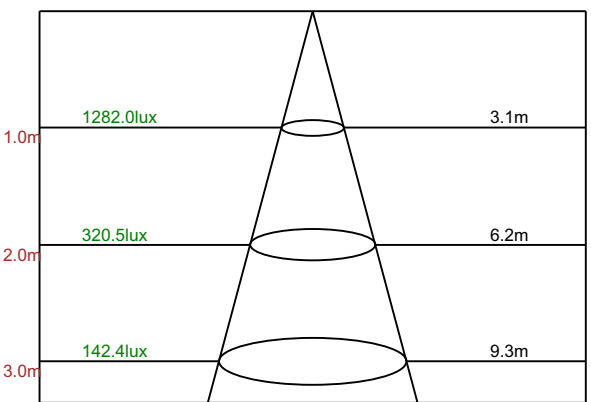
| Order No.       | Input voltage(V) | Power(W) | Lumen(lm) | CCT(K)                   | CRI | PF   | Dimension(in)    |
|-----------------|------------------|----------|-----------|--------------------------|-----|------|------------------|
| NS-PLD-6060D40  | AC 100-277       | 40       | 3600      | 3000/3500/4000/5000/6000 | ≥80 | >0.9 | 23.75*23.75*4.92 |
| NS-PLD-60120D60 | AC 100-277       | 60       | 5700      | 3000/3500/4000/5000/6000 | ≥80 | >0.9 | 23.75*47.75*4.92 |

### APPLICATIONS

Widely used in offices, hotels, meeting rooms, schools, houses and other indoor places for high brightness lighting and energy-saving.



Lux distance curve





LED SLIM PANEL

PLS-E Series

FEATURES

- Super-slim heatsink with great dissipation performance.
- High brightness SMD LED as light source.
- Well-distributed light rays and high efficiency.
- High stability, long life-span, good reliability.
- No lead, mercury etc.

APPLICATIONS

Widely used in offices, hotels, meeting rooms, schools, houses and other indoor places for high brightness lighting and energy-saving.

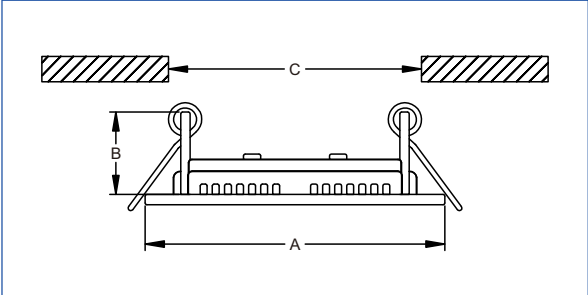
AC100-240V

110°

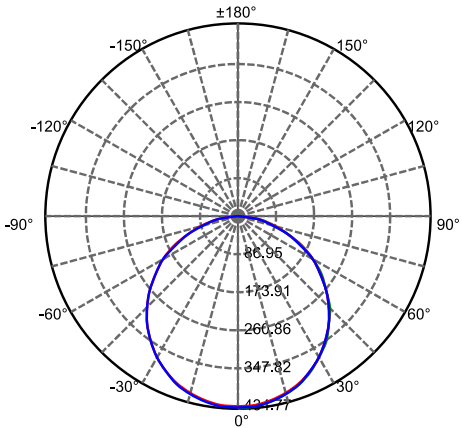
IP20

| Type           | A   | B  | C   |
|----------------|-----|----|-----|
| NS-PLS-1212E6  | 120 | 20 | 102 |
| NS-PLS-1515E9  | 145 | 20 | 131 |
| NS-PLS-1717E12 | 174 | 20 | 153 |

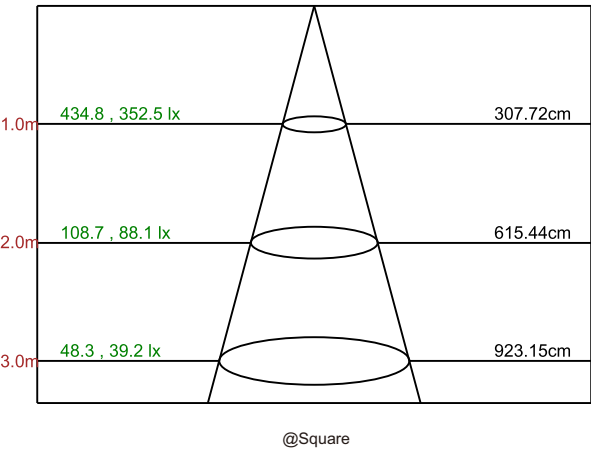
Dimensions: Unit:mm



Light distribution curve



Lux distance curve



TECHNICAL PARAMETERS

| Order No.      | Input voltage(V) | Power(W) | Lumen(lm) | CCT(K)         | CRI | PF   |
|----------------|------------------|----------|-----------|----------------|-----|------|
| NS-PLS-1212E6  | AC 100-240       | 6        | 360       | 3000/4000/6500 | 80  | >0.5 |
| NS-PLS-1515E9  | AC 100-240       | 9        | 540       | 3000/4000/6500 | 80  | >0.5 |
| NS-PLS-1717E12 | AC 100-240       | 12       | 720       | 3000/4000/6500 | 80  | >0.5 |



LED SLIM PANEL

PLS-DE Series

FEATURES

- Super-slim heatsink with great dissipation performance.
- High brightness SMD LED as light source.
- Well-distributed light rays and high efficiency.
- High stability, long life-span, good reliability.
- No lead, mercury etc.

APPLICATIONS

Widely used in offices, hotels, meeting rooms, schools, houses and other indoor places for high brightness lighting and energy-saving.

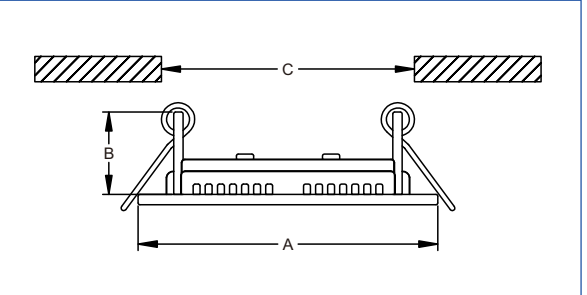
AC100-240V

110°

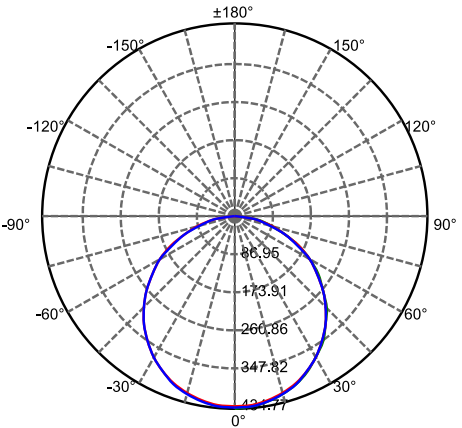
IP20

| Type          | A    | B  | C    |
|---------------|------|----|------|
| NS-PLS-D12E6  | Ø120 | 20 | Ø102 |
| NS-PLS-D15E9  | Ø145 | 20 | Ø131 |
| NS-PLS-D17E12 | Ø174 | 20 | Ø153 |

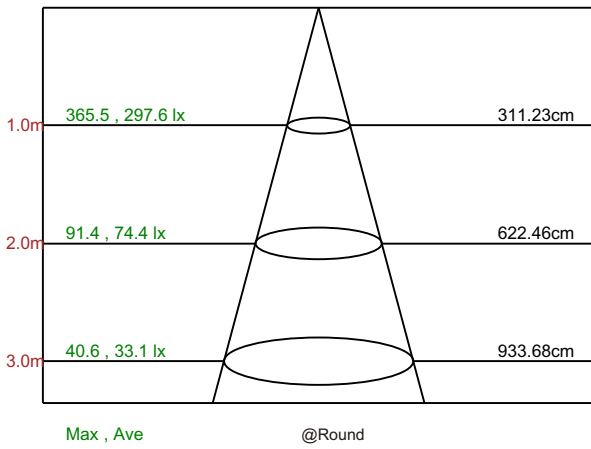
Dimensions: Unit:mm



Light distribution curve



Lux distance curve

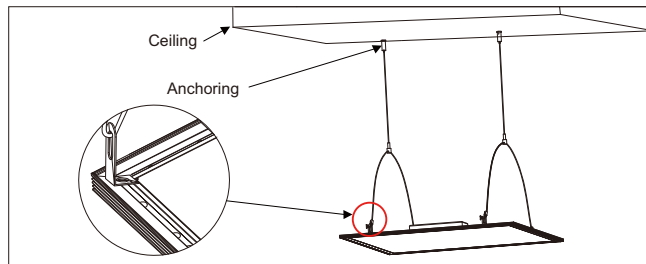


TECHNICAL PARAMETERS

| Order No.     | Input voltage(V) | Power(W) | Lumen(lm) | CCT(K)         | CRI | PF   |
|---------------|------------------|----------|-----------|----------------|-----|------|
| NS-PLS-D12E6  | AC 100-240       | 6        | 360       | 3000/4000/6500 | 80  | >0.5 |
| NS-PLS-D15E9  | AC 100-240       | 9        | 540       | 3000/4000/6500 | 80  | >0.5 |
| NS-PLS-D17E12 | AC 100-240       | 12       | 720       | 3000/4000/6500 | 80  | >0.5 |

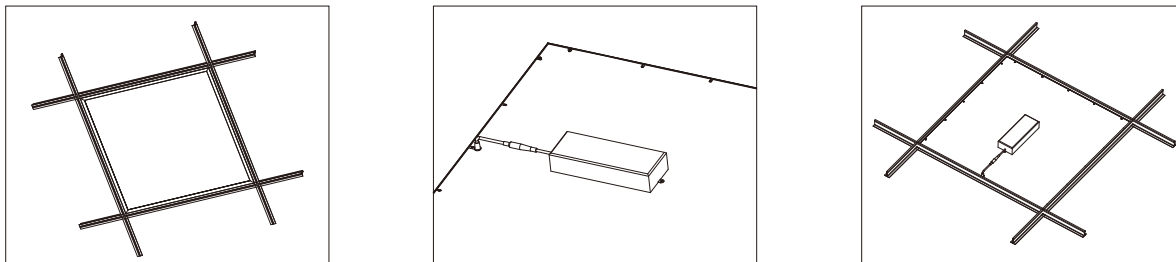
## PLS Lamp Installation Instruction (TUV)

### 01 Suspending



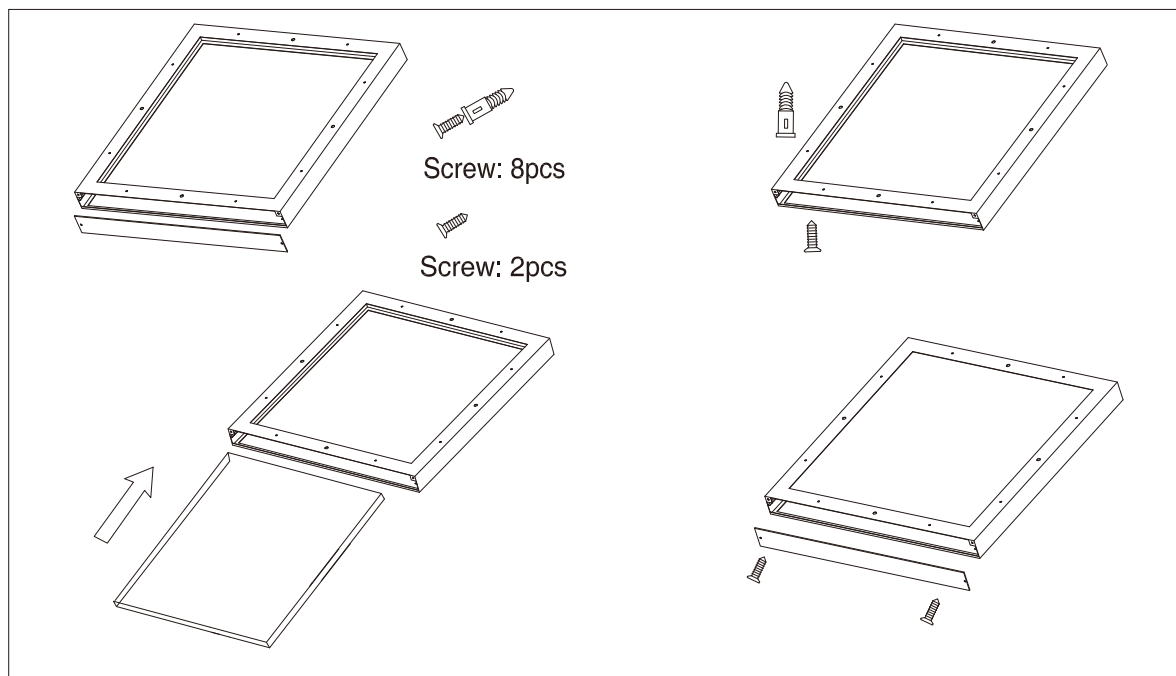
Make the hanging wires through the holes on fittings. Fix the anchoring onto the ceiling.

### 02 N-built



Clear the keel and connect AC end with user AC end. install the lamp into the keel as illustrated.

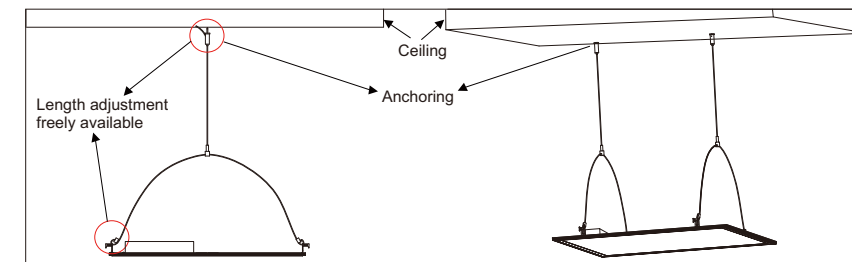
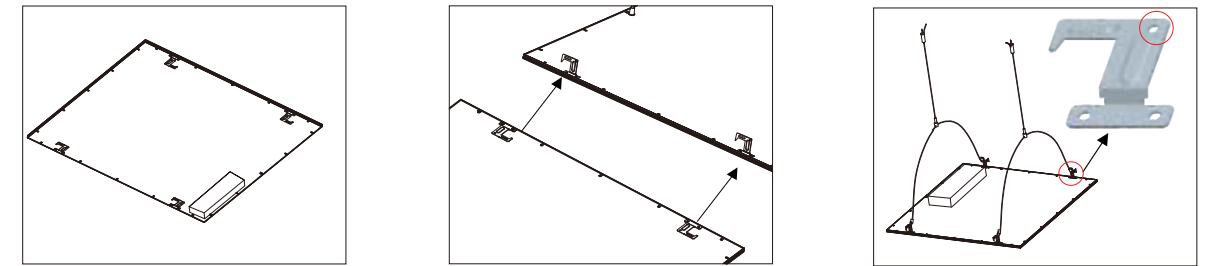
### 03 Mounting



Remove the roll top from mounting frame, fix the frame onto the ceiling with anchorings. Insert the lamp into the frame and then put the roll top back, fixed with screws.

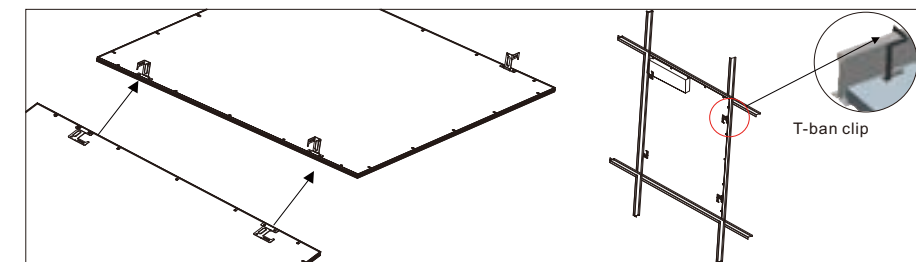
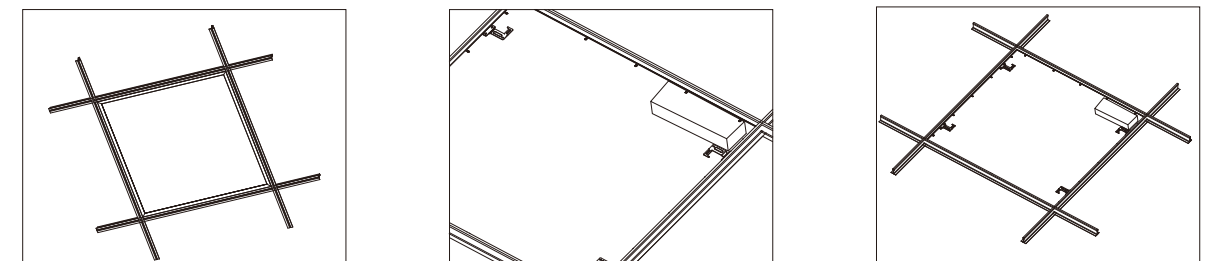
## PLS Lamp Installation Instruction (UL)

### 01 Suspending



Tilt fixture and insert through opening in ceiling grid, facing down. When fixture is above the ceiling grid, position it so the frame of the fixture is flat, level and supported by the T-bar grid. Rotate T-bar clips counter clockwise (90 degrees) to secure panels.

### 02 N-built



Bend the T-bar clips vertical on the back of the panel and attach the anchoring on the ceiling. Feed ropes through the hole of each T-bar clip and the anchoring. Measure desired rope length and then feed ropes through each wire gripper at the same direction. Level the panel by fine tuning the length of the rope by pressing the strain reliefs and feed the wires in or out as necessary. Cut excess rope after final adjustment.



- 01 LED TUBE
- 02 LED PANEL
- 03 LED CEILING LIGHT
- 04 LED BULB
- 05 LED DOWNLIGHT



LED CEILING LIGHT

B Series

- FEATURES
- High brightness SMD LED, high efficiency.

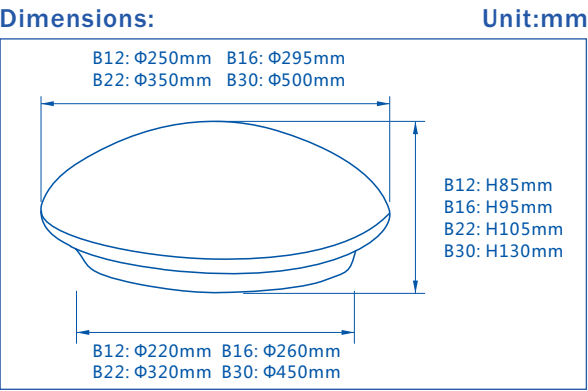
· Flexible installation, without opening hole.

· Constant current driver, stable performance and long lifespan.

· Tailor-made functions including dimming, motion sensor etc.

APPLICATION

Widely used in offices, hotels, meeting rooms, schools, home lighting and other indoor dry places.





- 01 LED TUBE
- 02 LED PANEL
- 03 LED CEILING LIGHT
- 04 LED BULB
- 05 LED DOWNLIGHT



# LED BULB

## NS-A60-C7LS/C9LS/C12LS

### FEATURES

- Ultra bright SMD LED.
- Plastic coated aluminum heatsink with good dissipation performance.
- 250° Wide angel.
- Dimming function available.

AC100-240V

250°

IP20

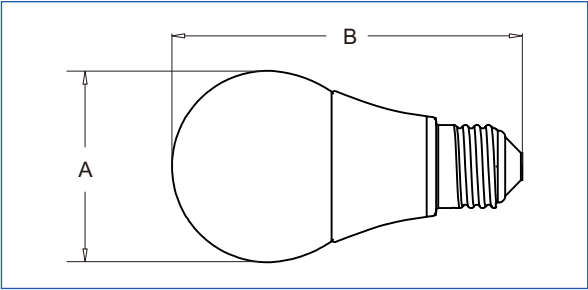
7w=40w  
9w=60w  
12W=100w  
incandescent

E26/E27  
base

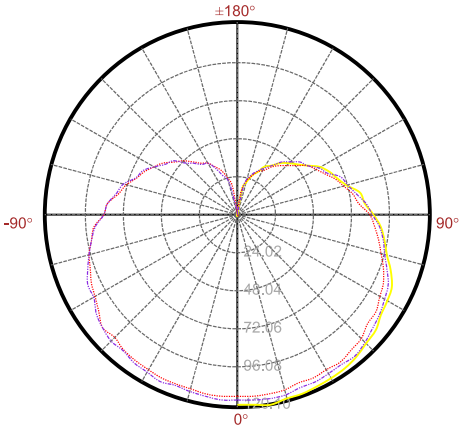


| Type         | A   | B   |
|--------------|-----|-----|
| NS-A60-C7LS  | 60  | 65  |
| NS-A60-C9LS  | 60  | 65  |
| NS-A60-C12LS | 110 | 125 |

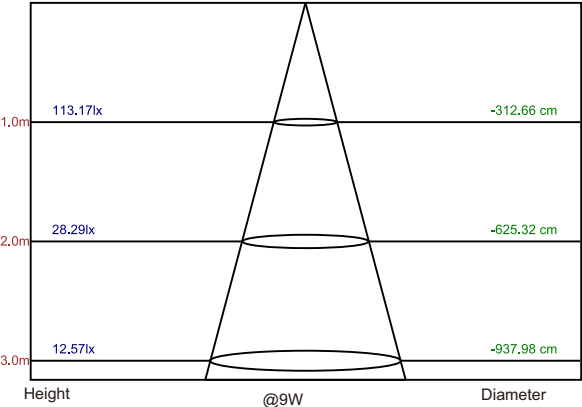
Dimensions: Unit:mm



Light distribution curve

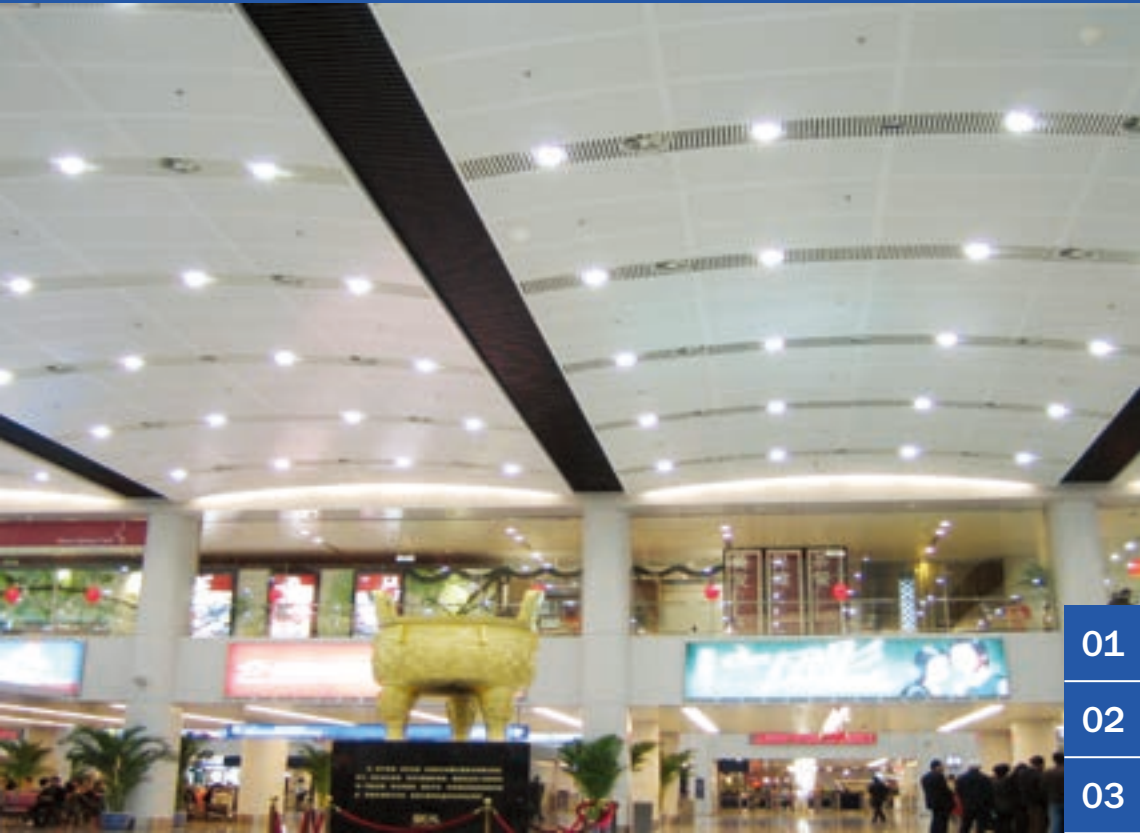


Lux distance curve



### TECHNICAL PARAMETERS

| Order No.    | Input voltage(V) | Power(W) | Lumen(lm) | CCT(K)              | CRI | PF   |
|--------------|------------------|----------|-----------|---------------------|-----|------|
| NS-A60-C7LS  | AC 100-240       | 7        | 650/600   | 2700/3000/4000/6500 | ≥80 | >0.9 |
| NS-A60-C9LS  | AC 100-240       | 9        | 860/800   | 2700/3000/4000/6500 | ≥80 | >0.9 |
| NS-A60-C12LS | AC 100-240       | 12       | 1100/1000 | 2700/4000/6500      | ≥80 | >0.9 |



- 01 LED TUBE
- 02 LED PANEL
- 03 LED CEILING LIGHT
- 04 LED BULB
- 05 LED DOWNLIGHT



# LED RECESSED DOWNLIGHT

## NS-KD1-C5/C9/C15

### FEATURES

- Low decay, high efficiency and high brightness COB LED.
- Delicate and unique embedded design.
- Low power consumption long lifespan, reliable and safe.

### APPLICATIONS

Widely used in offices, libraries, museums, lounges, shops, and hotels, exhibition halls and showcase, discos, pubs, restaurants and home lighting.

AC100-240V

36°

Ip20

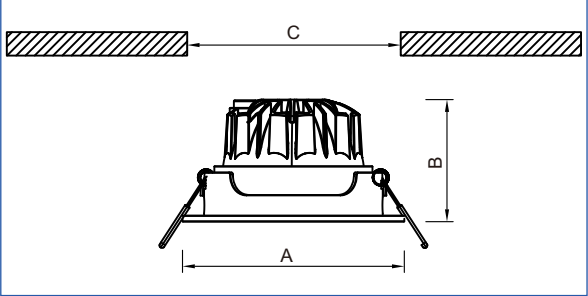
UVSTOP

COB LED

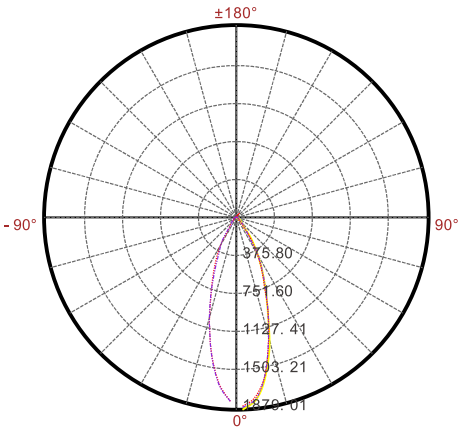


| Type       | A   | B  | C   |
|------------|-----|----|-----|
| NS-KD1-C5  | 90  | 49 | 75  |
| NS-KD1-C9  | 110 | 54 | 95  |
| NS-KD1-C15 | 138 | 65 | 125 |

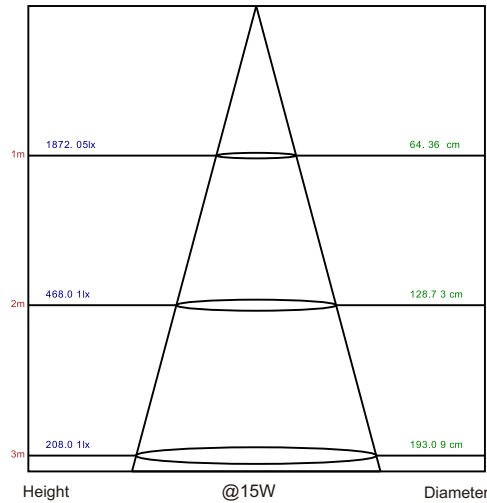
Dimensions: Unit:mm



Light distribution curve



Lux distance curve



### TECHNICAL PARAMETERS

| Order No.           | Input voltage(V) | Power(W) | Lumen(lm)     | CCT(K)         | CRI | PF  | Viewing Angle |
|---------------------|------------------|----------|---------------|----------------|-----|-----|---------------|
| NS-KD1-C5-CW/NW/WW  | AC 100-240       | 5        | 350/330/300   | 6000/4000/3000 | 80  | 0.9 | 36°           |
| NS-KD1-C9-CW/NW/WW  | AC 100-240       | 9        | 650/630/585   | 6000/4000/3000 | 80  | 0.9 | 36°           |
| NS-KD1-C15-CW/NW/WW | AC 100-240       | 15       | 1100/1080/990 | 6000/4000/3000 | 80  | 0.9 | 36°           |



# LED RECESSED DOWNLIGHT

## NS-KD1-C20/C30

### FEATURES

- Low decay, high efficiency and high brightness COB LED.
- Delicate and unique embedded design.
- Low power consumption, long lifespan, reliable and safe.

### APPLICATIONS

Widely used in offices, libraries, museums, lounges, shops, and hotels, exhibition halls and showcase, discos, pubs, restaurants and home lighting.

AC100-240V

36°

IP20

UVSTOP

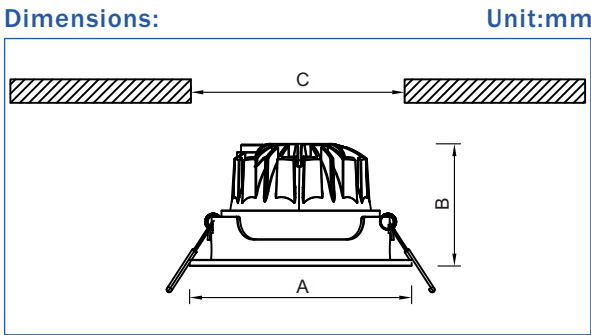
COB LED

CE

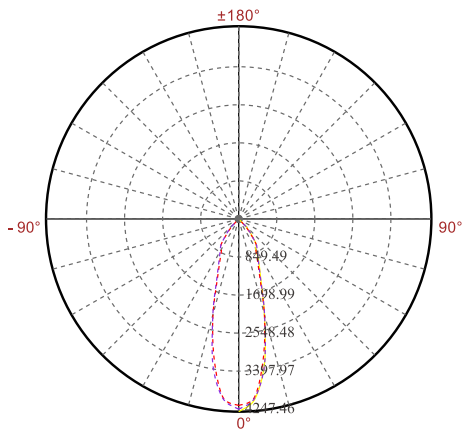
F

RoHS COMPLIANT

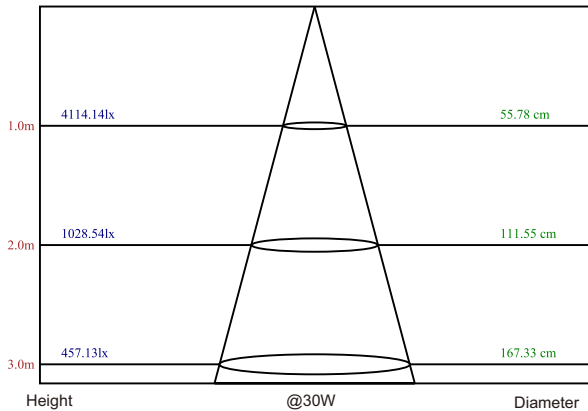
| Type       | A   | B   | C   |
|------------|-----|-----|-----|
| NS-KD1-C20 | 138 | 100 | 125 |
| NS-KD1-C30 | 138 | 100 | 125 |



Light distribution curve



Lux distance curve



### TECHNICAL PARAMETERS

| Order No.           | Input voltage(V) | Power(W) | Lumen(lm)      | CCT(K)         | CRI | PF   | Viewing Angle |
|---------------------|------------------|----------|----------------|----------------|-----|------|---------------|
| NS-KD1-C20-CW/NW/WW | AC 100-240       | 20       | 1500/1500/1350 | 6000/4000/3000 | 80  | 0.95 | 36°           |
| NS-KD1-C30-CW/NW/WW | AC 100-240       | 30       | 2300/2300/2070 | 6000/4000/3000 | 80  | 0.95 | 36°           |



# LED DOWNLIGHT

## NS-TD2.5-H5/NS-TD3-H7 NS-TD4-H10/NS-TD5-H12

### FEATURES

- Low decay, high efficiency and high brightness LED.
- Delicate and unique embedded design.
- Low power consumption, long lifespan, reliable and safe.

### APPLICATIONS

Widely used in offices, libraries, museums, lounges, shops, and hotels, exhibition halls and showcase, discos, pubs, restaurants and home lighting.

AC100-240V

110°

IP20

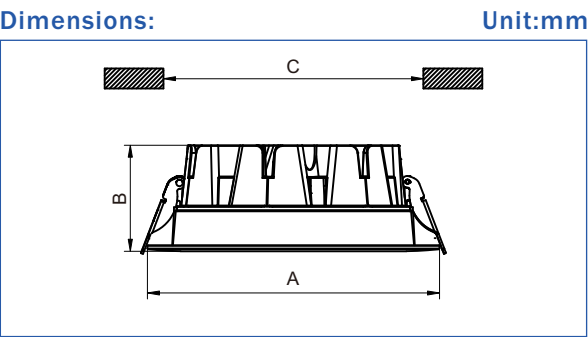
UVSTOP

CE

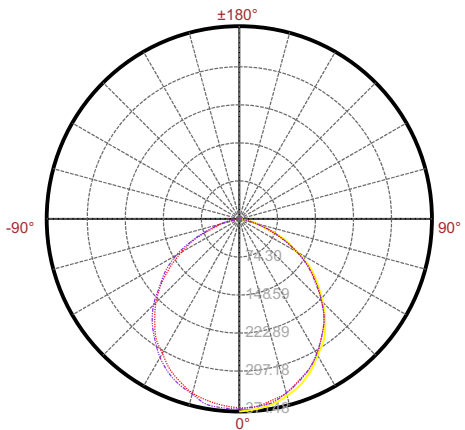
F

RoHS COMPLIANT

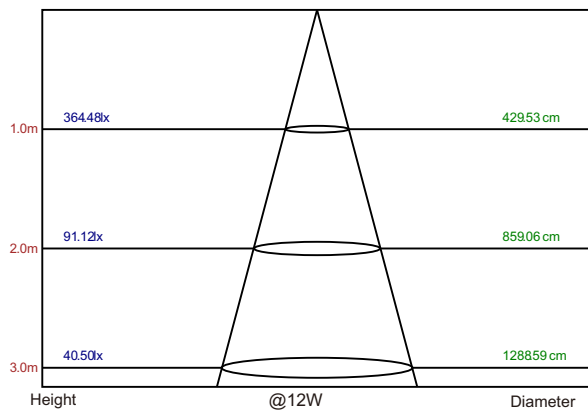
| Type        | A   | B  | C   |
|-------------|-----|----|-----|
| NS-TD2.5-H5 | 100 | 40 | 85  |
| NS-TD3-H7   | 114 | 40 | 95  |
| NS-TD4-H10  | 146 | 53 | 130 |
| NS-TD5-H12  | 173 | 56 | 150 |



Light distribution curve



Lux distance curve



### TECHNICAL PARAMETERS

| Order No.            | Input voltage(V) | Power(W) | Lumen(lm)   | CCT(K)         | CRI | PF  | Viewing Angle |
|----------------------|------------------|----------|-------------|----------------|-----|-----|---------------|
| NS-TD2.5-H5-CW/NW/WW | AC 100-240       | 5        | 350/330/300 | 6000/4000/3000 | 80  | 0.5 | 110°          |
| NS-TD3-H7-CW/NW/WW   | AC 100-240       | 7        | 500/480/450 | 6000/4000/3000 | 80  | 0.5 | 110°          |
| NS-TD4-H10-CW/NW/WW  | AC 100-240       | 10       | 750/730/700 | 6000/4000/3000 | 80  | 0.8 | 110°          |
| NS-TD5-H12-CW/NW/WW  | AC 100-240       | 12       | 900/880/850 | 6000/4000/3000 | 80  | 0.8 | 110°          |



# LED DOWNLIGHT

NS-TD6-H15/NS-TD6-H20

## FEATURES

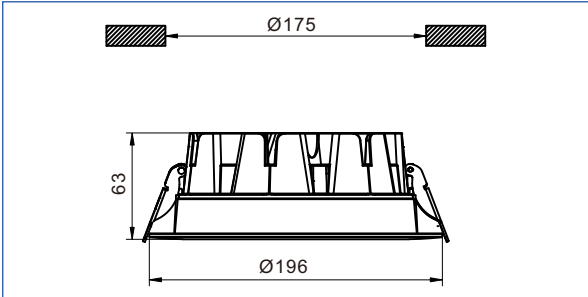
- Low decay, high efficiency and high brightness SMD LED.
- Delicate and unique embedded design.
- Low power consumption, long lifespan, reliable and safe.

## APPLICATIONS

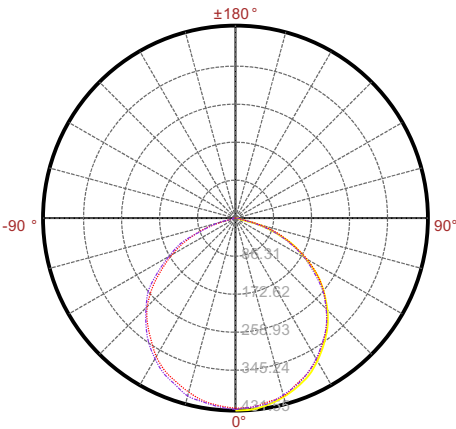
Widely used in offices, libraries, museums, lounges, shops, and hotels, exhibition halls and showcase, discos, pubs, restaurants and home lighting.



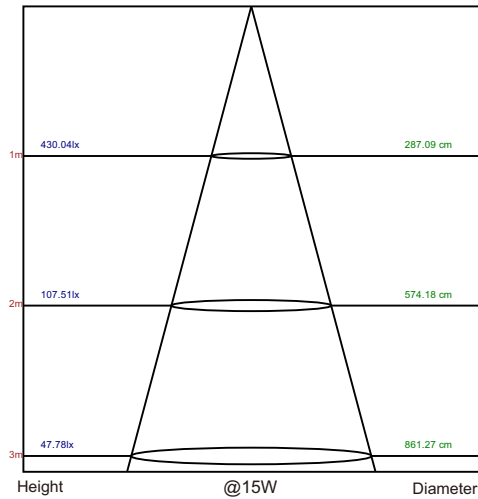
Dimensions: Unit:mm



Light distribution curve



Lux distance curve



## TECHNICAL PARAMETERS

| Order No.     | Input voltage(V) | Power(W) | Lumen(lm) | CCT(K) | CRI | PF  | Viewing Angle |
|---------------|------------------|----------|-----------|--------|-----|-----|---------------|
| NS-TD6-H15-CW | AC 100-240       | 15       | 1150      | 6000   | 80  | 0.9 | 110°          |
| NS-TD6-H15-NW | AC 100-240       | 15       | 1120      | 4000   | 80  | 0.9 | 110°          |
| NS-TD6-H15-WW | AC 100-240       | 15       | 1050      | 3000   | 80  | 0.9 | 110°          |
| NS-TD6-H20-CW | AC 100-240       | 20       | 1550      | 6000   | 80  | 0.9 | 110°          |
| NS-TD6-H20-NW | AC 100-240       | 20       | 1500      | 4000   | 80  | 0.9 | 110°          |
| NS-TD6-H20-WW | AC 100-240       | 20       | 1450      | 3000   | 80  | 0.9 | 110°          |



# LED DOWNLIGHT

NS-TD8-H20/NS-TD8-H30

## FEATURES

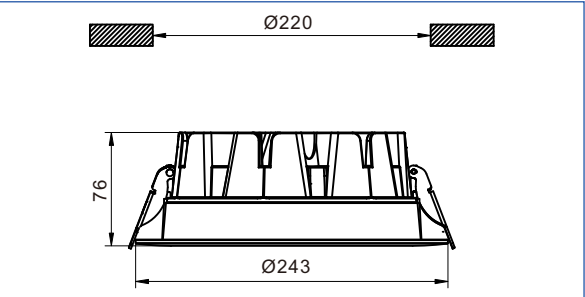
- Low decay, high efficiency and high brightness SMD LED.
- Delicate and unique embedded design.
- Low power consumption, long lifespan, reliable and safe.

## APPLICATIONS

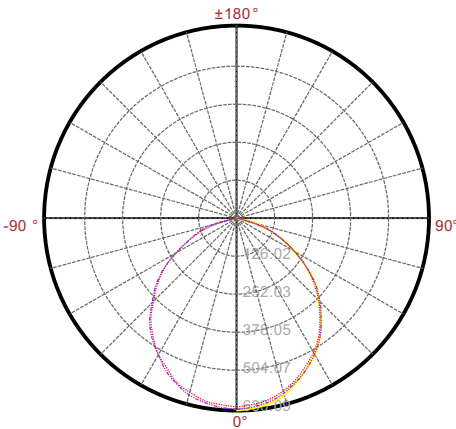
Widely used in offices, libraries, museums, lounges, shops, and hotels, exhibition halls and showcase, discos, pubs, restaurants and home lighting.



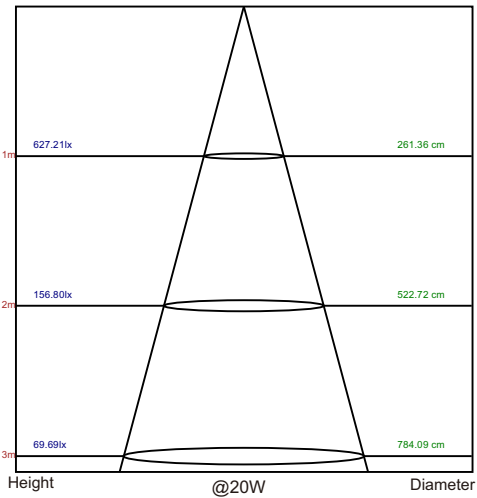
Dimensions: Unit:mm



Light distribution curve



Lux distance curve



## TECHNICAL PARAMETERS

| Order No.     | Input voltage(V) | Power(W) | Lumen(lm) | CCT(K) | CRI | PF  | Viewing Angle |
|---------------|------------------|----------|-----------|--------|-----|-----|---------------|
| NS-TD8-H20-CW | AC 100-240       | 20       | 1550      | 6000   | 80  | 0.9 | 110°          |
| NS-TD8-H20-NW | AC 100-240       | 20       | 1500      | 4000   | 80  | 0.9 | 110°          |
| NS-TD8-H20-WW | AC 100-240       | 20       | 1450      | 3000   | 80  | 0.9 | 110°          |
| NS-TD8-H30-CW | AC 100-240       | 30       | 2400      | 6000   | 80  | 0.9 | 110°          |
| NS-TD8-H30-NW | AC 100-240       | 30       | 2350      | 4000   | 80  | 0.9 | 110°          |
| NS-TD8-H30-WW | AC 100-240       | 30       | 2300      | 3000   | 80  | 0.9 | 110°          |



# LED DOWNLIGHT

NS-TD2.5-P4/NS-TD3-P6  
NS-TD4-P8/NS-TD6-P12

## FEATURES

- Low light decay, high efficiency and high brightness SMD LED.
- Delicate and unique embedded anti glare design.
- Low power consumption, long lifespan, reliable and safe.

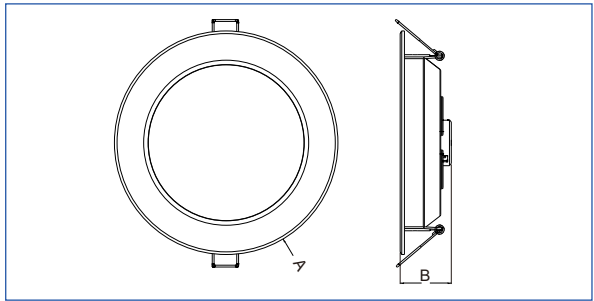
## APPLICATIONS

Widely used in offices, libraries, museums, lounges, shops, and hotels, exhibition halls and showcase, discos, pubs, restaurants and home lighting.

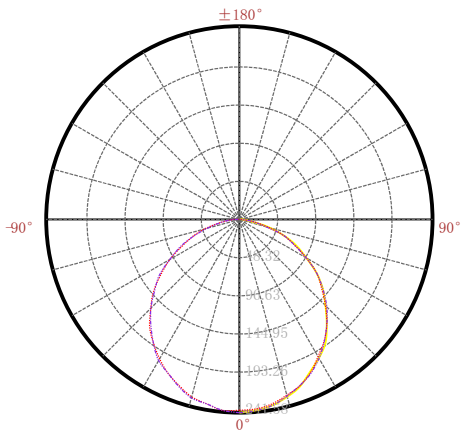


| Type        | A   | B  |
|-------------|-----|----|
| NS-TD2.5-P4 | 100 | 30 |
| NS-TD3-P6   | 115 | 30 |
| NS-TD4-P8   | 146 | 33 |
| NS-TD6-P12  | 195 | 28 |

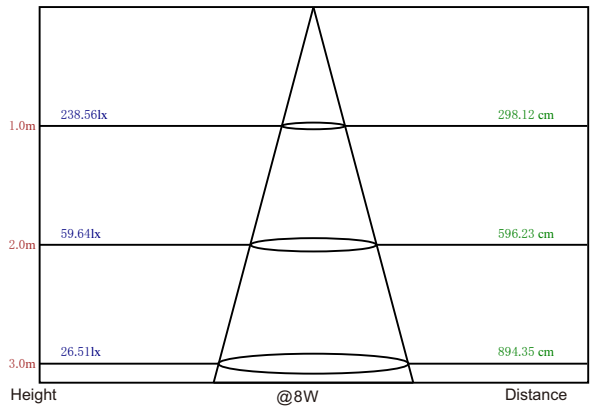
Dimensions: Unit:mm



Light distribution curve



Lux distance curve



## TECHNICAL PARAMETERS

| Order No.            | Input voltage(V) | Power(W) | Lumen(lm)   | CCT(K)         | CRI | PF  | Viewing Angle |
|----------------------|------------------|----------|-------------|----------------|-----|-----|---------------|
| NS-TD2.5-P4-CW/NW/WW | AC 100-240       | 4        | 280/280/250 | 6000/4000/3000 | 80  | 0.5 | 110°          |
| NS-TD3-P6-CW/NW/WW   | AC 100-240       | 6        | 420/420/380 | 6000/4000/3000 | 80  | 0.5 | 110°          |
| NS-TD4-P8-CW/NW/WW   | AC 100-240       | 8        | 600/600/540 | 6000/4000/3000 | 80  | 0.5 | 110°          |
| NS-TD5-P12-CW/NW/WW  | AC 100-240       | 12       | 950/950/870 | 6000/4000/3000 | 80  | 0.8 | 110°          |

## NationStar White LED Road Map

Product

