

LED 2D Replacement

• Product Master

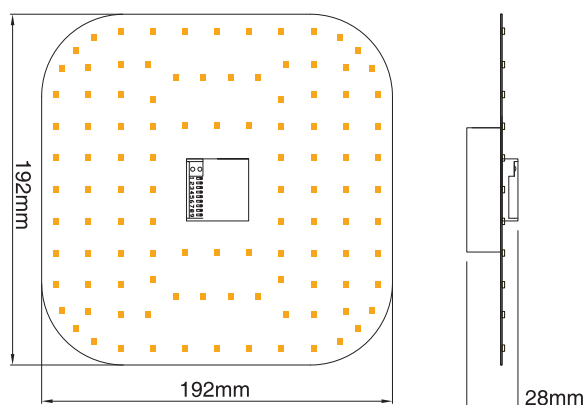
SMD2835 / Ra>80+AC100~240V Isolating Driver

• Product Features

- ☆ Best replacement for fluorescent 2D lamp
- ☆ SMD LED Color index: Ra>80/ R9>0
- ☆ No UV and harmful element
- ☆ Lumen Maintenance LM80
- ☆ 5 years warranty



• Product dimension drawing



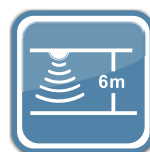
Max.8M



Light Sensor



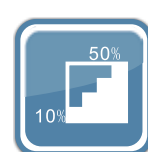
Hold Time
10s~30min



Mounting Height
6m Max.



Automatic
ON/OFF



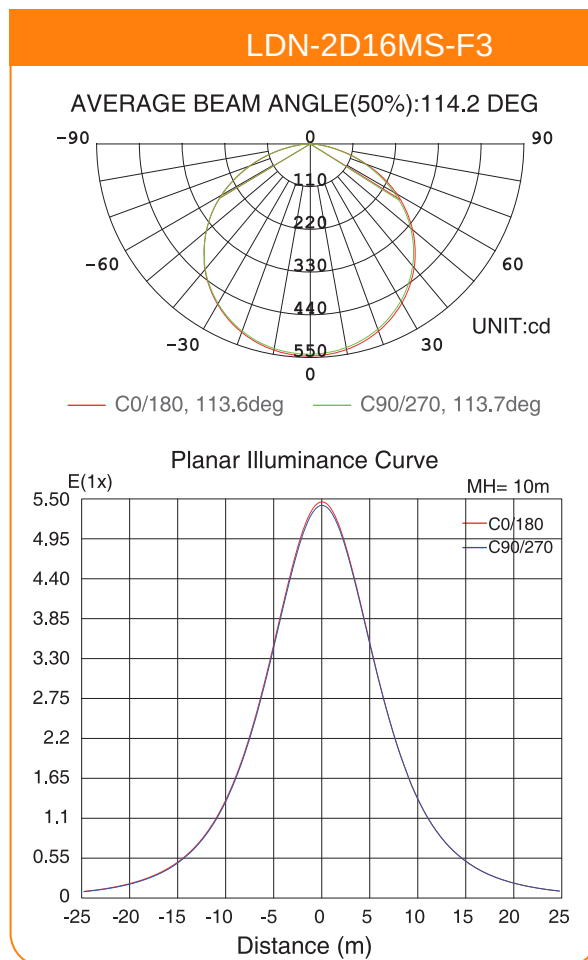
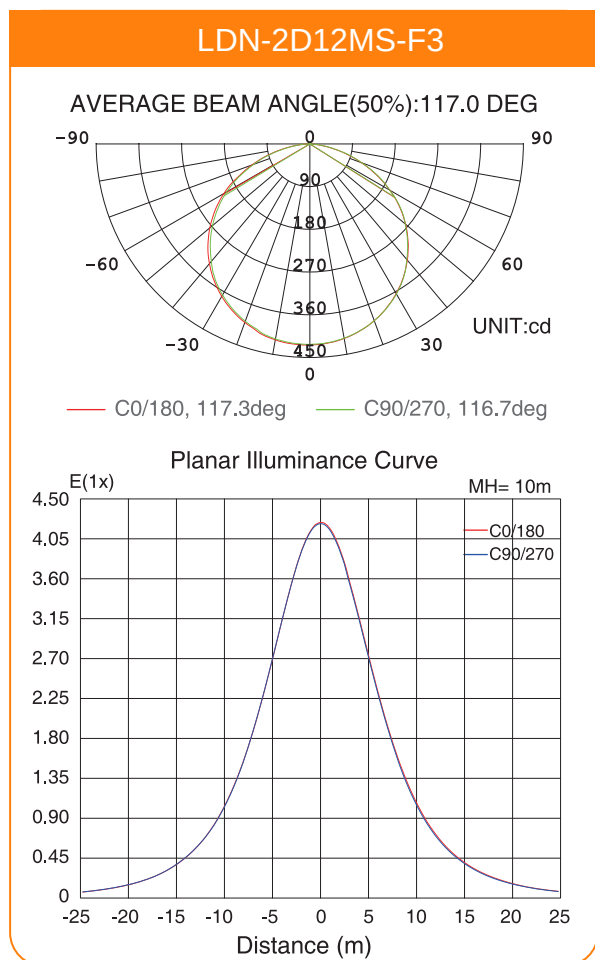
Automatic
Dimming

• Technical / Electrical Characters (at TA=25°C)

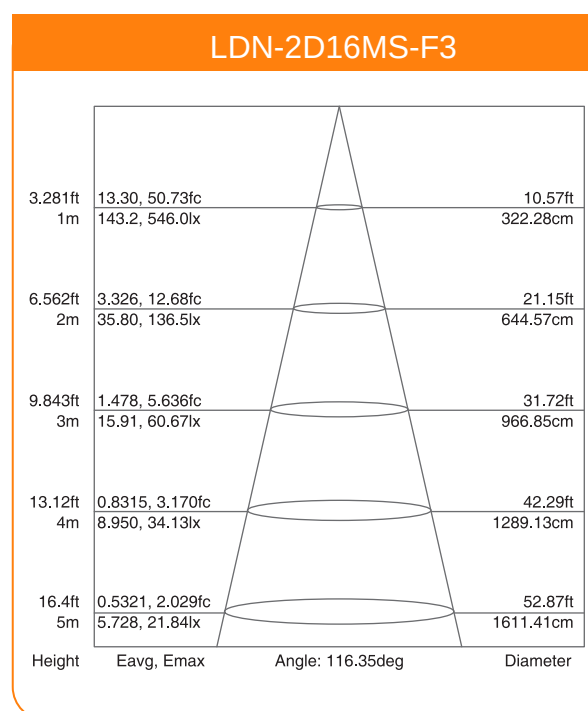
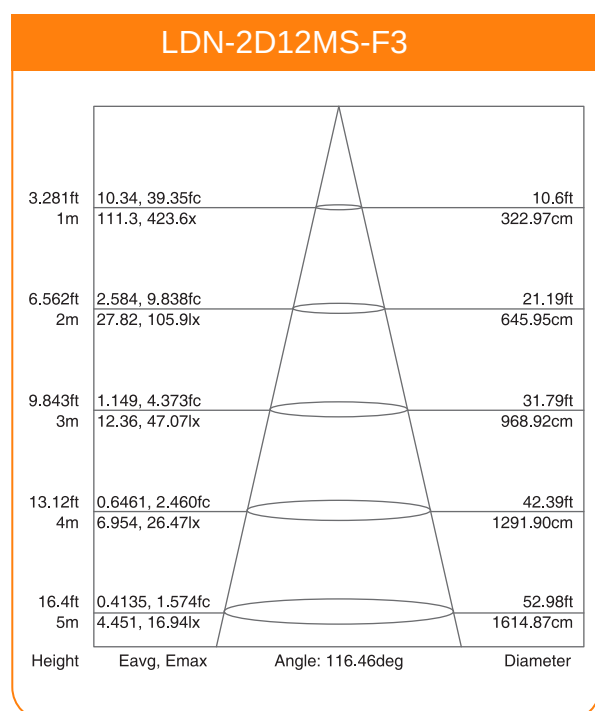
Item	Symbol	LED 2D Replacement	
Rated Power	W	12W	16W
Product Code	/	LDN-2D12MS-F3	LDN-2D16MS-F3
LED type /Qty	SMD2835	84 pcs	108 pcs
Luminous Flux	Lm	typ. 1200Lm	typ. 1600Lm
Low light level luminous flux	Lm	Option: 35% / 50% of the total luminous flux	
Luminous Efficacy	Lm/W	typ. 100Lm/W	
Lux Data	2M	typ. 100-111Lux	typ. 130-143Lux
	3M	typ. 45-50Lux	typ. 58-64Lux
Color Index	Ra	Ra>80	
Beam Angle	Degree	120 degree	
Power Factor	PF	PF>0.90	
Input Voltage	V	AC100-240V 50/60Hz	
Color Temperature	TC(K)	WW:2500-4000K, NW:4000-5000K, PW:5000-6000K, CW>6000K	
LED Forwarder Current	mA	Constant 45mA	
Life Span	hours	50,000 hours	
Quality Warranty	Years	5 years	



• Luminous Intensity Distribution Curve



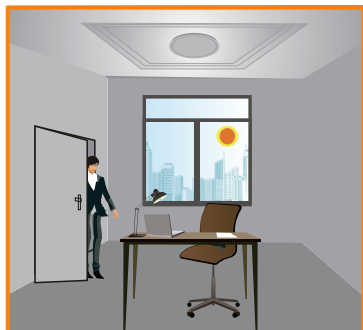
• Lighting Output Lux Testing



• Optional Function

1). ON-OFF Function

The products provide ON-OFF and steps dimming function for LED lighting, users can select the right function according to different applications.



With sufficient light, the lamp doesn't switch on.

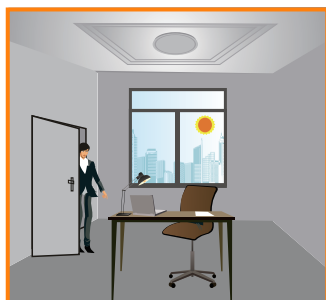


Motion detected, the sensor switches on the lamp.



After hold time, the sensor switches off the lamp when no motion is detected

2). 2-step dimming function



With sufficient ambient light, the sensor does not switch on the lamp.



No motion detected, the lamp remains at a low light level all the time.

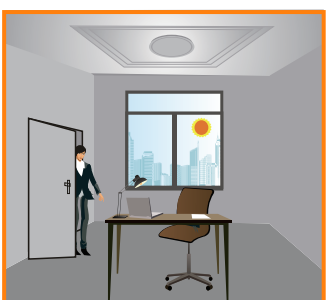


The sensor switches on the lamp when motion detected.

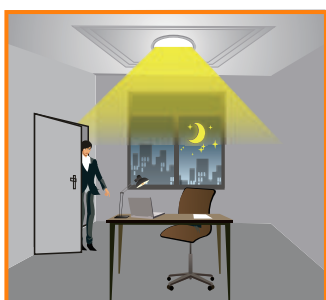


No motion detected, the lamp remains at a low light level all the time.

3). 3-step dimming function



With sufficient ambient light, the sensor does not switch on the lamp.



With insufficient ambient light, the sensor switches on the lamp when motion is detected.



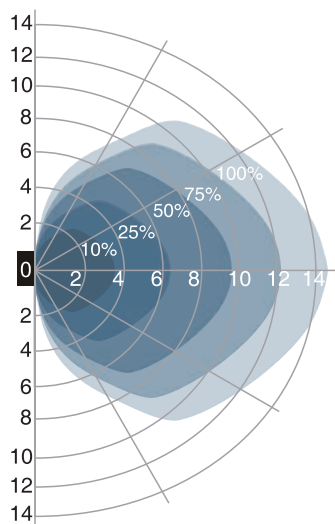
After hold time, the sensor dims the lamp at a low light level if no new motion trigger.



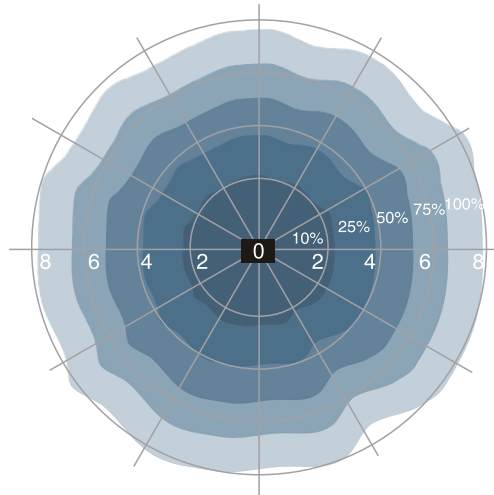
After stand-by period, the sensor switches off the lamp if no motion is detected in its detection zone.



• Detection Pattern



Wall mounting pattern (Unit: m)
Suggested installation height: 1-1.8m



Ceiling mounting pattern (Unit: m)
Suggested installation height: 2.5-6m

• Setting

By selecting the combination on the DIP switch, sensor data can be precisely set for each specific application.

ON



OFF

	1	2	
I	●	●	100%
II	○	●	75%
III	●	○	50%
IV	○	○	10%

Detection area

Detection area can be reduced by selecting the combination on the DIP switches to fit precisely each application.

ON		3	4	
	I	●	●	10s
	II	○	●	90s
	III	●	○	3min
	IV	○	○	10min
OFF				

Hold time

Refers to the time period the lamp remains at 100% illumination after no motion detected.

ON		5	6	
	I	●	●	Disable
	II	○	●	50Lux
	III	●	○	15Lux
OFF	IV	○	○	5Lux

Daylight sensor

The sensor can be set to only allow the lamp to illuminate below a defined ambient brightness threshold.

When set to Disable mode, the daylight sensor will switch on the lamp when motion is detected regardless of ambient light level.

50lux: twilight operation, 15lux, 5lux: darkness operation only.

ON		7	8	
	I	●	●	0s
	II	○	●	30s
	III	●	○	10min
OFF	IV	○	○	+∞

Corridor function (Stand-by period)

Refers to the time period the lamp remains at a low light level before it completely switches off in the long absence of people.

When set to "+∞", the low light is maintained until motion is detected.

When set to "0s", the light will turn off after hold time.

ON		9	
	I	●	35%
	II	○	50%
OFF			

Dimming level (Stand-by period)

The low light level you would like to have after the hold time in the long absence of people.



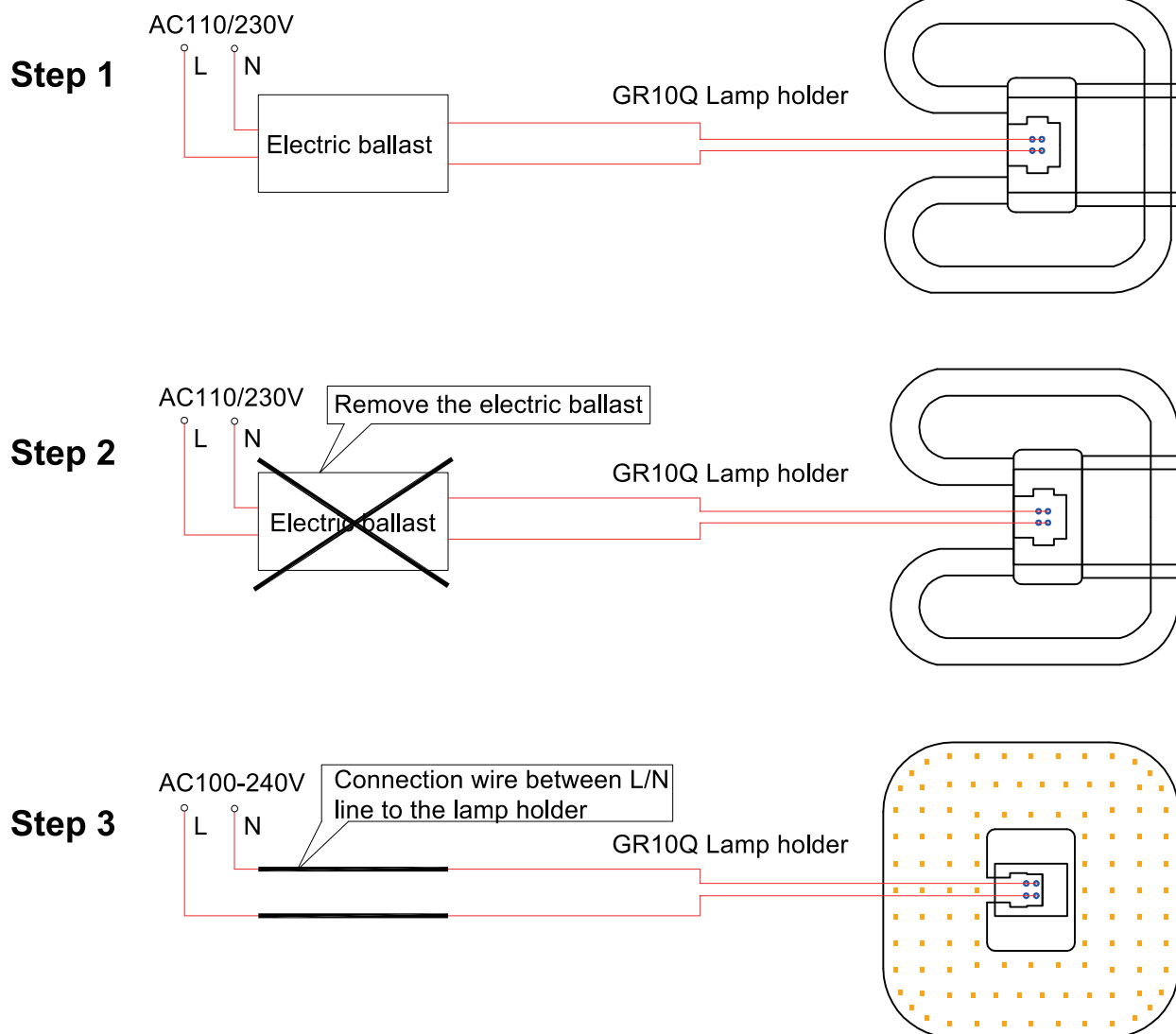
• Installation Instructions



Warning

Remove the ballast or starter before installation
Refer to below circuit for installation

Lamp holder with electrical ballast



• Package

Product Type	Rated Power	Inner Box	Outer Carton	Qty/Carton	Unit N.W	G.W/Carton
2D Replacement	12W / 16W	207 x 33 x 209mm	680 x 223 x 225mm	20Pcs	150g	6Kg

! CAUTION

- ※ In case of electric shock, please make sure the power is off when installation is made.
- ※ The lamp should be installed and operated by a qualified electrician or technician in accordance with relevant local codes.
- ※ Do not use sharp tools near or on the surface of the lamp.
- ※ Unpack and carefully examine the product. Report any damage and save all packing materials if any portion of the product was damaged during transportation.

