

# GreenUp Lowbay G2

*BY288P*

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Indoor Segment,  
PLP Growth Market  
Feb. 2016



**PHILIPS**

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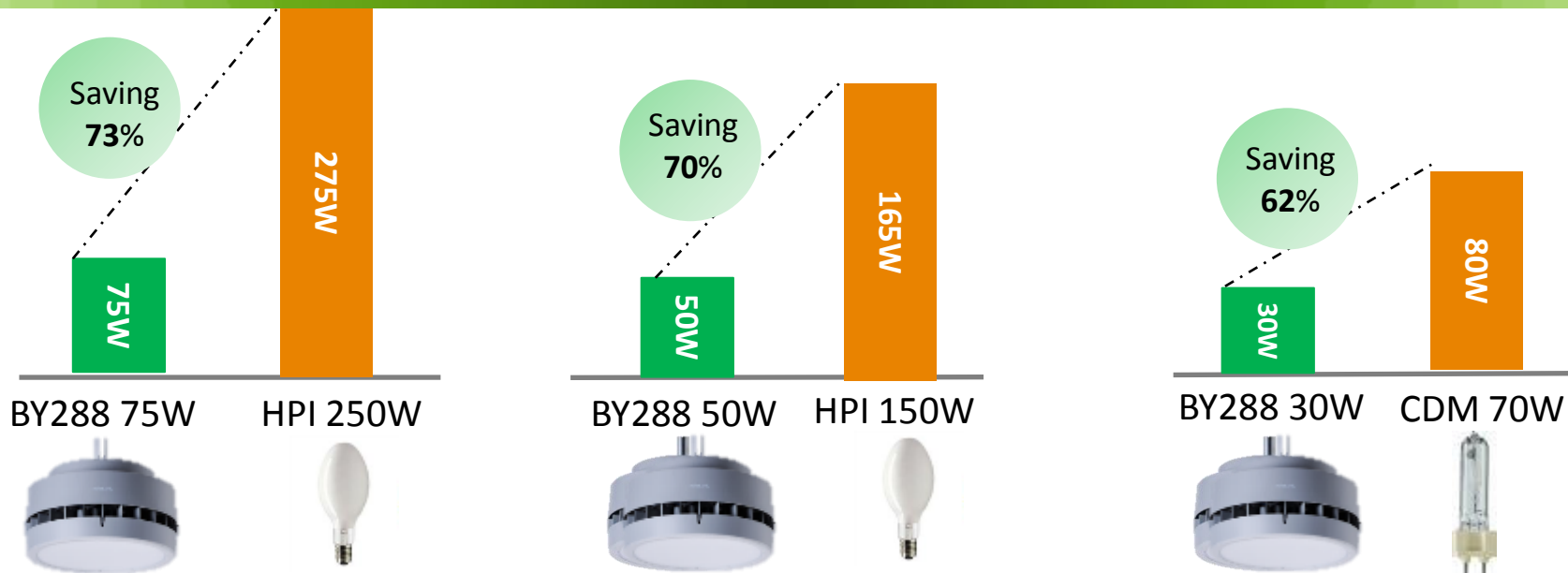
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# Features and Benefits



- System efficacy @ 120m/W; 3600/5900/8800lm - **High energy saving – up to 73% comparing to HPI-P system:**
- PIR (1~10V) motion detection sensor version (8800lm), - **achieve additional energy saving through occupancy and movement based dimming**
- CRI >80/R9>0; high uniformity optical cover; UGR17 (with reflector) - **Comfortable light quality**
- Lifetime 50Khrs; CB/EMC/CE/ASNZ approbations - **Proven performance & quality**
- Suitable for hook, pipe, chain, and bracket mounting- **Easy for installation**

# High energy saving



## HID



| CDM-T lamp |            |             |              | GreenUp Lowbay G2 |            |              | Saving %   |
|------------|------------|-------------|--------------|-------------------|------------|--------------|------------|
| Lamp       | Lamp Lumen | Power       | System Lumen | Product           | Power      | System Lumen |            |
| HPI 150W   | 12000lm    | <b>165W</b> | 6000lm       | BY288P            | <b>50W</b> | 5900lm       | <b>70%</b> |
| HPI 250W   | 18000lm    | <b>275W</b> | 9000lm       | BY288P            | <b>75W</b> | 8800lm       | <b>73%</b> |

## CDM-T



| CDM-T lamp |            |             |              | GreenUp Lowbay G2 |            |              | Saving %   |
|------------|------------|-------------|--------------|-------------------|------------|--------------|------------|
| Lamp       | Lamp Lumen | Power       | System Lumen | Product           | Power      | System Lumen |            |
| CDM-T 70W  | 6600lm     | <b>80W</b>  | 3900lm       | BY288P            | <b>30W</b> | 3600lm       | <b>62%</b> |
| CDM-T 150W | 14000lm    | <b>170W</b> | 8400lm       | BY288P            | <b>75W</b> | 8800lm       | <b>56%</b> |

# Movement detection



**BY288P PSR version**



**LRM1657 Actilume  
1-10V Ind Mov Sensor**



## **BY288P PSR version**

## **12NC**

BY288P LED90/NW PSR EN

911401843299

BY288P LED90/CW PSR EN

911401842999



## **PIR Sensor set**

## **12NC**

BY288X PIR Sensor

911401517331

# Movement detection - 30% more saving



- Dimming automatic with motion detector
- Max. height 13m, Max. diameter 10m
- Default setting: 25% lux after 15 minutes
- Possible to ETO dimming lux and delay time



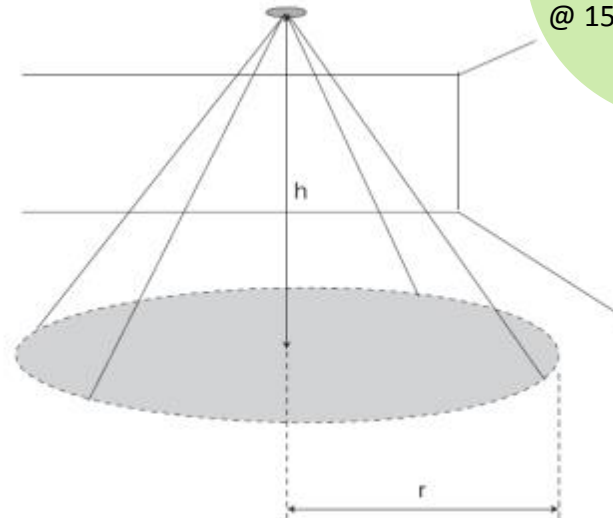
**More saving 30%**  
(25% lux @40%  
operation time )

BY288X PIR Sensor



|            |        | Sensitivity |        |     |
|------------|--------|-------------|--------|-----|
|            |        | High        | Medium | Low |
| Height (h) | Radius |             |        |     |
| 5m         | 2.7m   | 95%         | 90%    | 85% |
| 10m        | 4.5m   | 90%         | 80%    | 75% |
| 13m        | 5.4m   | 70%         | 60%    | 50% |

(valid at 25°C room temperature)



LRM1657 movement detection information

Tips:

The best performance  
application: 5~10m  
@ 15C~25C

# High energy saving

Additional 10% saving!

73%



80%



HPI 250W



BY288P 75W



BY288P 75W  
+ PIR Sensor

|                                                          | HPI 250W | BY288P 75W | BY288P 75W<br>+ PIR Sensor                               |
|----------------------------------------------------------|----------|------------|----------------------------------------------------------|
| Lamp wattage                                             | 250 W    | 75 W       | 77 W                                                     |
| System wattage                                           | 275 W    | 75 W       | 54 W<br>(Dimming to 25% output at<br>40% operation time) |
| Initial lumen output                                     | 18000 lm | 8800 lm    | 8800 lm                                                  |
| Lumen maintenance<br>(10,000hours)                       | 70%      | 95%        | 95%                                                      |
| Light Out Put Ratio ( LOR)<br>(Luminaire Optical design) | 65%      | 100%       | 100%                                                     |
| Average System Lumen<br>Output (10,000hrs)               | 8200 lm  | 8360 lm    | 8360 lm                                                  |
| Total Energy Saving (same lux level)                     |          | 73%        | 80%                                                      |

# Comfort light quality

- High color rendering (CRI >80) highlights the real color and restores the natural experience
- Micro lens structure to realize the accurate distribution of light, dramatically improve the lighting experience.
- High quality narrow beam anti-glare reflector improve UGR to 17

- High quality PC provide good uniformity and accurate light

High CRI LED chip

**PHILIPS**  
**LUMILEDS**

High quality  
anti-glare reflector



# Proven performance & quality

Philips PLS  
designed driver  
@50000hrs



**PHILIPS**  
**LUMILEDS**

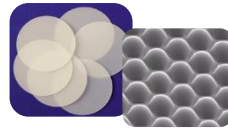


LUXEON 3030

50000hrs/CRI>80



High quality  
dia-casting  
heat sink



Micro structure  
PC lens



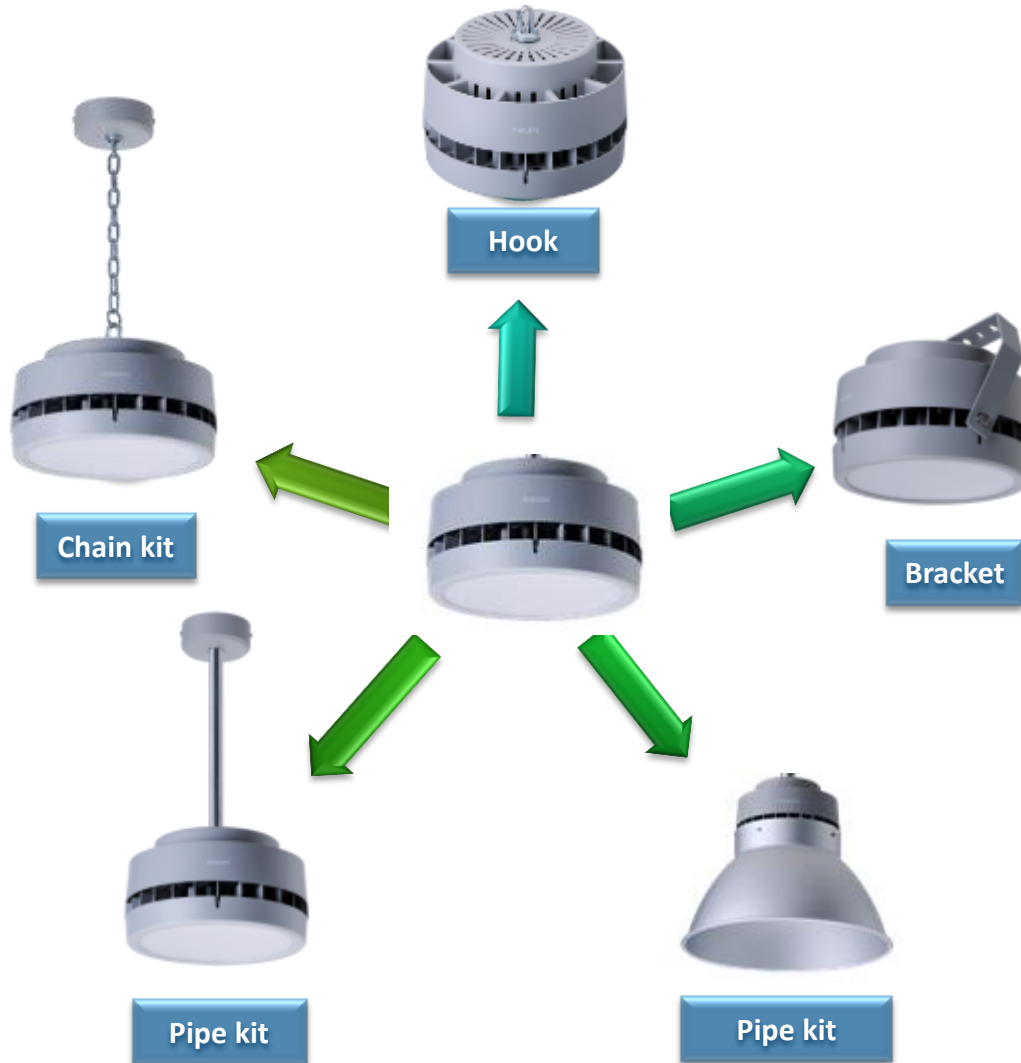
**PHILIPS**  
**Green Field**  
**Philips professional LED  
luminaire assembly factory**

All Philips key components and production assure the reliable performance and quality

**PHILIPS**

# Easy installation & retrofitting

5 mounting options and various optional accessories, suitable for multiple installations



Hook



Bracket



Pipe kit



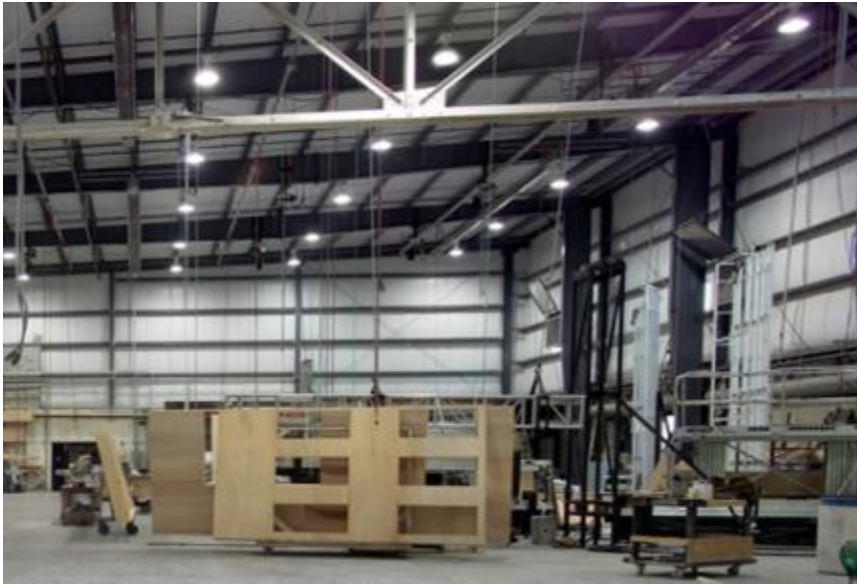
Chain kit



Reflector

# Key Applications

Industrial application like factory, warehouse, open area, stadium etc.



# Product Images



# Product Photometry

## General lighting in industry and public areas

### Wide Beam



## Accent lighting in retail and supermarket

### Narrow Beam (needs reflector)



# Product Specification

|                         | 8800lm                                              | 5900lm  | 3600lm                          |
|-------------------------|-----------------------------------------------------|---------|---------------------------------|
| System Power            | 75W                                                 | 50W     | 30W                             |
| System efficacy         | 117lm/W                                             | 118lm/W | 120lm/W                         |
| CCT                     | CW (6500K)/ NW (4000K)                              |         |                                 |
| CRI                     | > 80; R9>0                                          |         |                                 |
| Color consistency       | < 5 SDCM                                            |         |                                 |
| IP rating               | IP20                                                |         |                                 |
| Classification          | Class I                                             |         |                                 |
| Operation Temperature   | -20°C to +45°C (Ta35°C)                             |         |                                 |
| Lifetime L70(hrs)       | 50,000hrs@Ta35°C                                    |         |                                 |
| Optics & UGR            | Wide Beam 2*50<br>Narrow Beam 2*35 (with reflector) |         |                                 |
| Input Voltage           | 220-240V, 50/60 Hz                                  |         |                                 |
| Surge                   | L,N 1KV; L,N-GND 2KV                                |         |                                 |
| Driver                  | Fixed; 1~10V PSR                                    | Fixed   |                                 |
| THD                     | <20%                                                |         |                                 |
| Power factor            | > 0.95                                              |         |                                 |
| Mounting / Installation | Pendant (pole/hook/bracket/chain)                   |         |                                 |
| Dimensions              | Dia : 250mm /<br>Ht : 144mm                         |         | Dia : 150mm /<br>Ht : 115mm     |
| Weight                  | 2.3kgs                                              |         | 1kgs                            |
| Certificate             | CB/EMC/SAA/CE                                       |         |                                 |
| Optional accessory      | BY268Z RL (Reflector)                               |         | BY269Z RL (Reflector)           |
|                         | BY268Z MB (Mounting Bracket)                        |         | BY269Z MB<br>(Mounting Bracket) |

# Product designation

**BY288P** **LED90/NW** **PSU** **EN**

1                      2                      3                      4                      5

1 Product family code

2 System output

**LED90**: 8800lm

**LED60**: 5900lm

**LED40**: 3600lm

3 Color temperature

**NW**: 4000K

**CW**: 6500K

4 Driver type

**PSU**: Fixed

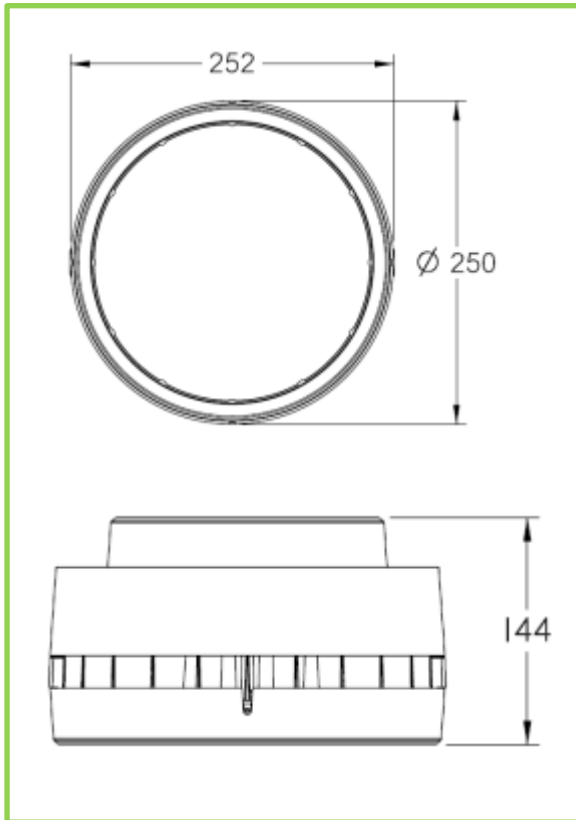
**PSR**: 1~10V dimmable

5 EN

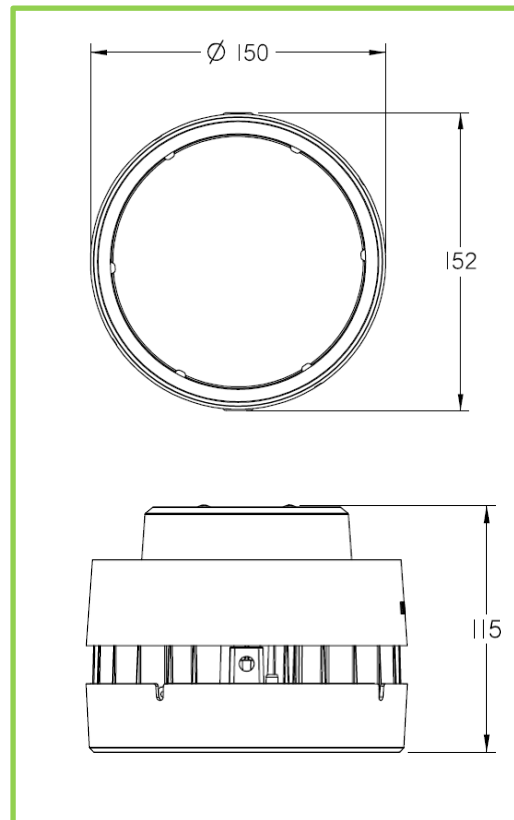
English version, for GM only

# Product dimension

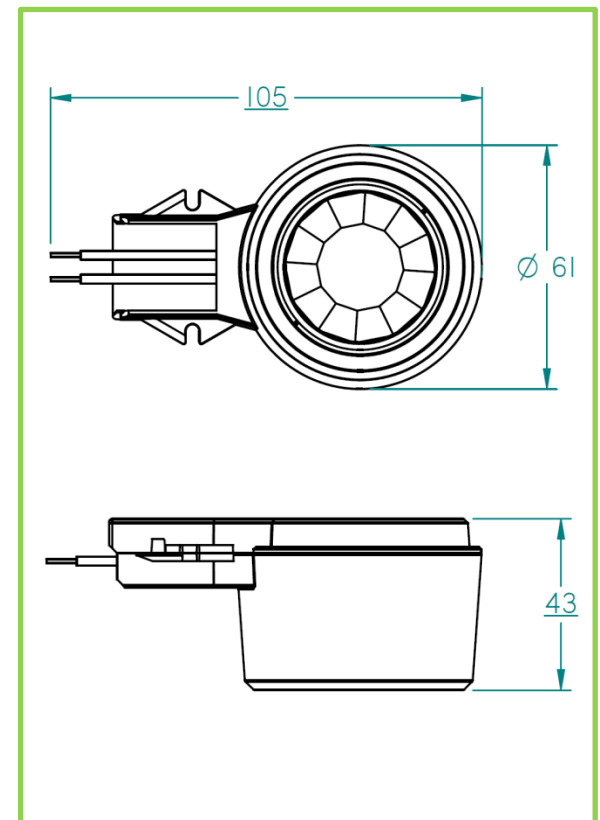
**BY288P LED90  
& LED60**



**BY288P LED40**



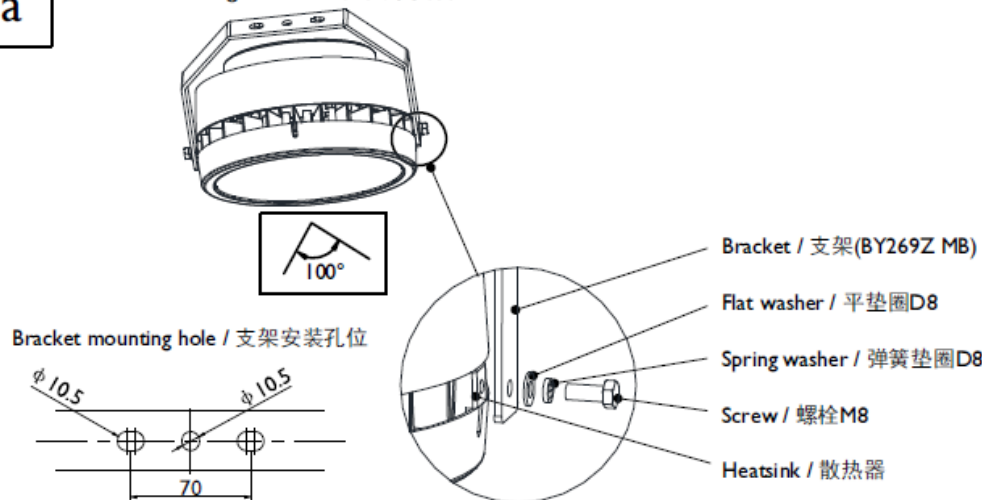
**BY288X  
PIR sensor**



# Product Installation

Ia

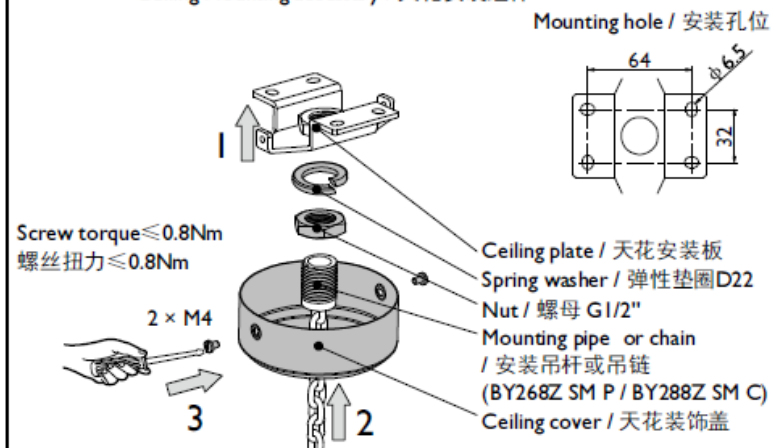
Use mounting bracket / 用支架安装



Ib1

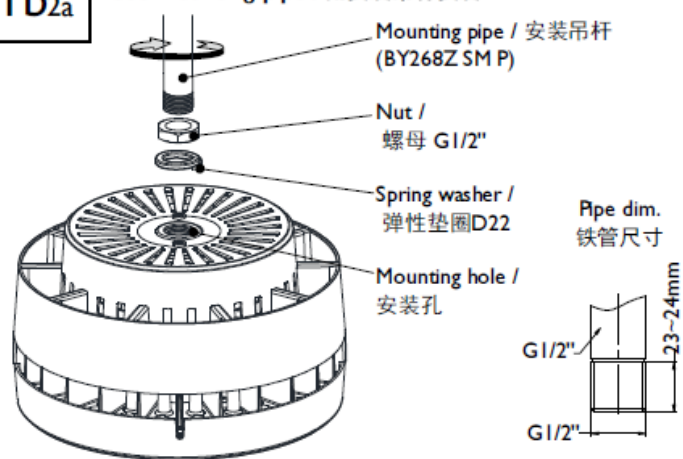
Use mounting pipe or chain / 用安装吊杆或吊链安装

Ceiling Mounting accessory / 天花安装组件



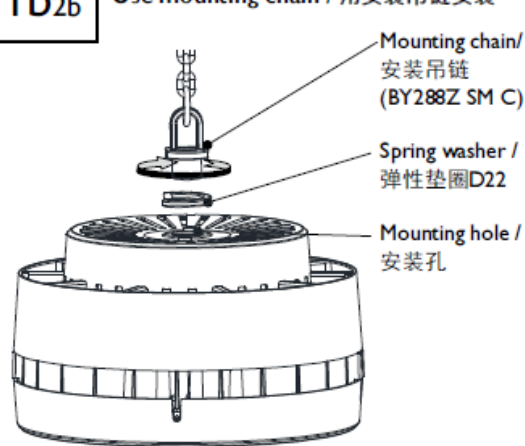
Ib2a

Use mounting pipe / 用安装吊杆安装



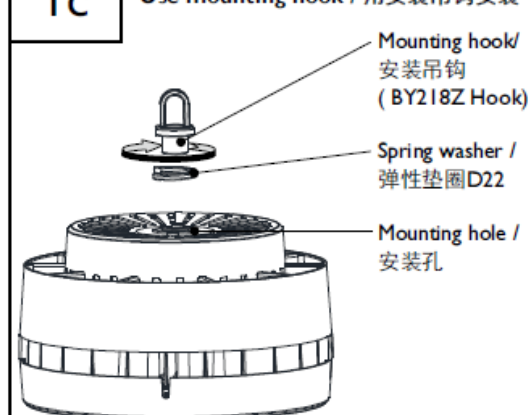
Ib2b

Use mounting chain / 用安装吊链安装



Ic

Use mounting hook / 用安装吊钩安装



# Product Installation

**1**

**2**

远离风口  
(Far away from air outlet)

| 高度 (H)<br>High(H) | 半径 (R)<br>Radius(R) | 灵敏度<br>Sensitivity |
|-------------------|---------------------|--------------------|
| 5m                | 2.7m                | 95%                |
| 10m               | 4.5m                | 90%                |

(适用室内温度为25°C的环境  
valid at 25°C room temperature)

# Product order information

| 12NC         | Designation            | Lumen | CCT   | Power | Supplier code |
|--------------|------------------------|-------|-------|-------|---------------|
| 911401843099 | BY288P LED90/NW PSU EN | 9000  | 4000K | 75W   | 266001        |
| 911401842799 | BY288P LED90/CW PSU EN | 9000  | 6500K | 75W   | 266001        |
| 911401843499 | BY288P LED60/NW PSU EN | 6000  | 4000K | 50W   | 266001        |
| 911401843399 | BY288P LED60/CW PSU EN | 6000  | 6500K | 50W   | 266001        |
| 911401843199 | BY288P LED40/NW PSU EN | 3600  | 4000K | 30W   | 266001        |
| 911401842899 | BY288P LED40/CW PSU EN | 3600  | 6500K | 30W   | 266001        |
| 911401843299 | BY288P LED90/NW PSR EN | 9000  | 4000K | 75W   | 266001        |
| 911401842999 | BY288P LED90/CW PSR EN | 9000  | 6500K | 75W   | 266001        |

| 12NC         | Designation       | Remark                                    | Supplier code |
|--------------|-------------------|-------------------------------------------|---------------|
| 911401541511 | BY268Z RL         | Reflector for BY288P LED90 & LED60        | 260324        |
| 911401542111 | BY269Z RL         | Reflector for BY288P LED30                | 260324        |
| 911401561721 | BY218Z Hook       | Hook                                      | 260324        |
| 911401542011 | BY268Z MB         | Mounting bracket for BY288P LED90 & LED60 | 266001        |
| 911401541911 | BY269Z MB         | Mounting bracket for BY288P LED30         | 266001        |
| 911401517231 | BY288Z SM C       | Chain kit                                 | 266001        |
| 911401541811 | BY268Z SM P       | Pole kit                                  | 266001        |
| 911401517331 | BY288X PIR Sensor | PIR sensor set                            | 266001        |

