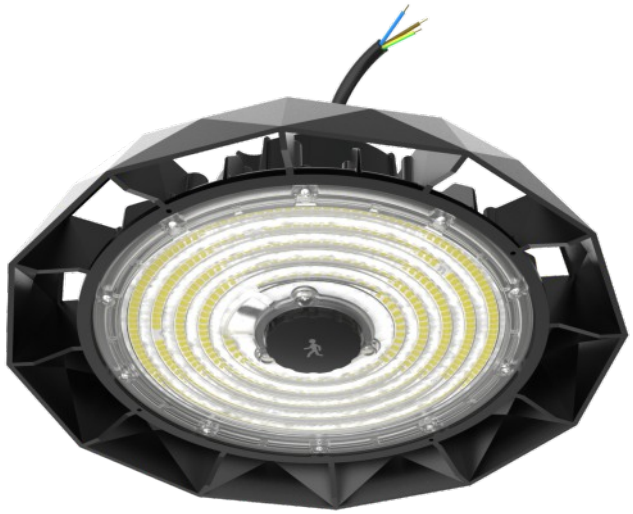
LUMAX®

High Bay LED
seria COMPACT Q

General characteristics

Family name	High Bay Compact Q
Luminaire type	Industrial luminaire
Integrated driver	Yes
Driver manufacturer	Sosen
Installation options	Hanged, on surface
Inteligent control	Dimmable 1-10V Zhaga - optional (DALI, DALI2, Casambi)
Certificates	CE, RoHS
Warranty*	3 years (opcjonal 5 years)
Materials	Aluminum, PC



Light technical characteristic

Luminaire luminous flux	from 15200lm to 38000lm
Luminous efficacy	190lm/W
Color temperature	5700K, 4000K
CRI	>70
Beam angle	120° (90° optic/ 60° cover)
Color consistency	<6SDCM

Electrical characteristics

Wattage	from 80W to 200W
Voltage	100-277V
Voltage frequency	50-60Hz
Power factor	>0,9
Energy efficiency label	B

Operating characteristics

Lifetime	100 000h
LLMF	>0,7
IP	65
IK	09
Warm up time	neglible
Starting time	<0,5s
Working temperature	from -30° to 45°C
Storage temperature	from -40° to 70°C

index	power	luminous flux	lighting angle	IP	CCT	weight net/gross	luminaire dimensions	packaging dimensions
LHB080UFQDW(N)	80W	15 200lm	120°	65	5700K (4000K)	2,5kg	280xH166mm	L330xW330xH185mm
LHB120UFQW(N)	120W	22 800lm	120°	65	5700K (4000K)	2,5kg	280xH166mm	L330xW330xH185mm
LHB160UFQDW(N)	160W	30 400lm	120°	65	5700K (4000K)	2,9kg	320xH167mm	L370xW370xH185mm
LHB200UFQDW(N)	200W	38 000lm	120°	65	5700K (4000K)	3,6kg	360xH167mm	L410xW410xH185mm
LHB080UFQD(N)	80W	15 200lm	90°	65	5700K (4000K)	2,5kg	280xH166mm	L330xW330xH185mm
LHB120UFQD(N)	120W	22 800lm	90°	65	5700K (4000K)	2,5kg	280xH166mm	L330xW330xH185mm
LHB160UFQD(N)	160W	30 400lm	90°	65	5700K (4000K)	2,9kg	320xH167mm	L370xW370xH185mm
LHB200UFQD(N)	200W	38 000lm	90°	65	5700K (4000K)	3,6kg	360xH167mm	L410xW410xH185mm

*According to Lumax warranty conditions

All given parameters fulfill ErP requirements and tolerances mentioned in regulation EU 2019/2015.

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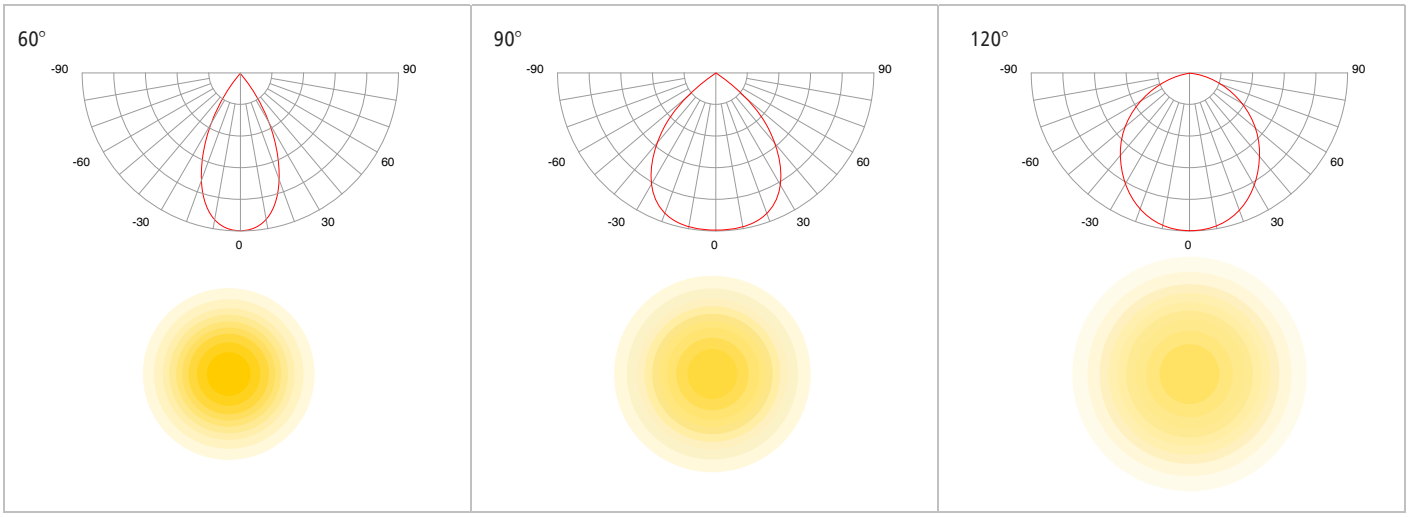
LIGHT DISTRIBUTION



ACCESSORIES


60°/90°


120°


120° tempered glass


ALU Reflector

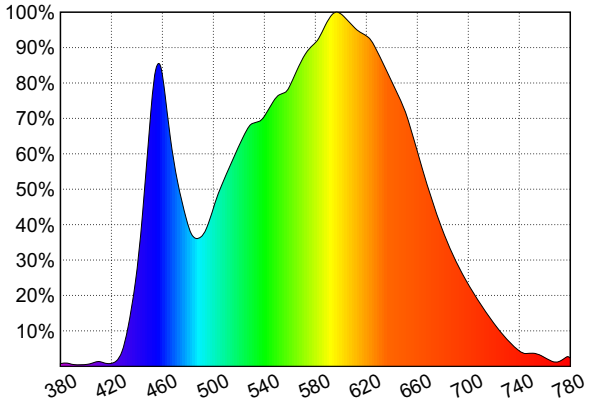

PC Reflector


Adjustable Bracket

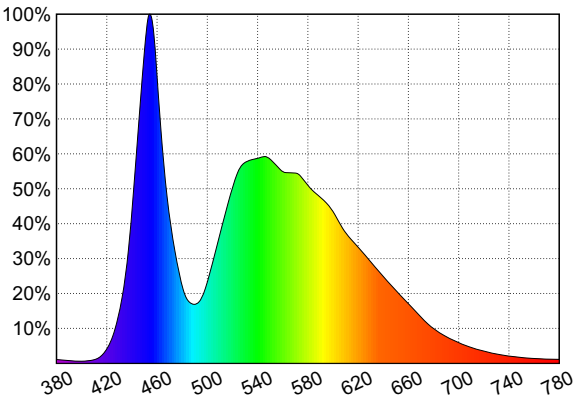

Zhaga Sensor Socket


Safety Chain

SPECTRAL DISTRIBUTION OF COLOR 4000K



SPECTRAL DISTRIBUTION OF COLOR 5700K



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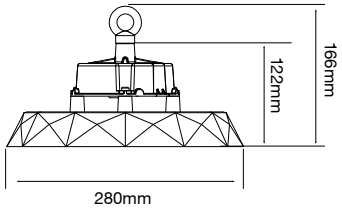
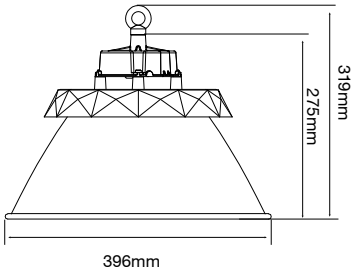
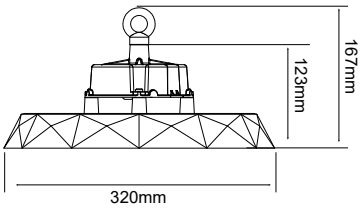
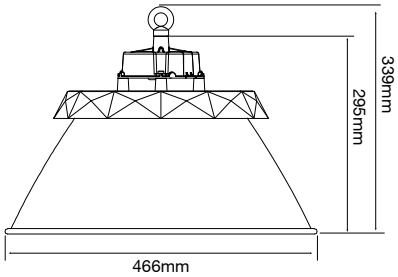
100W



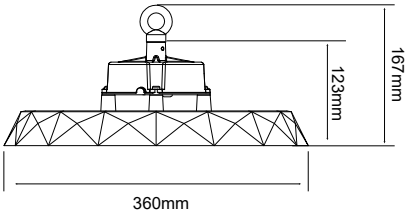


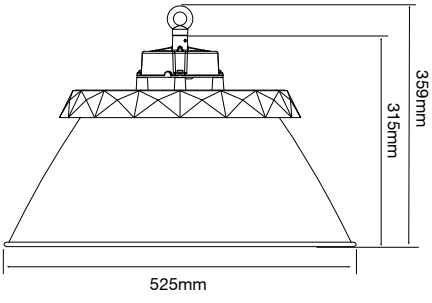
150W





200W





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Luminaire control - PIR sensor

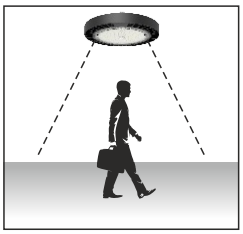
Indeks: LHBZMS

LUMAX lighting fixtures with a PIR sensor can be controlled using a Remote Control.

- Manual control option. Quickly and conveniently without the need to use wall panels.
- Easy configuration of all aspects of automatic luminaire operation.
- Reducing energy consumption by using a motion and twilight sensor.
- Reducing energy consumption by using a motion and twilight sensor.
- Manage the sensor's operating range, which allows to limit the switching on of the luminaire.
- Significantly lower configuration cost than advanced DALI systems.

Modes of operation

1. Onn/Off - delay time from 5s to 30 min

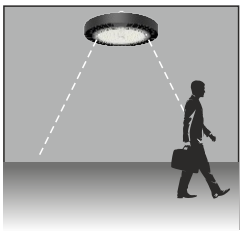


01

When the ambient light is sufficient, even if there is a motion signal, the light will not be turned on.

02

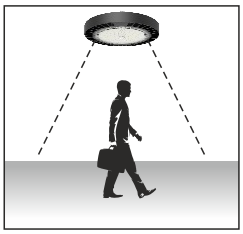
When the ambient lighting is insufficient and the sensor detects a motion signal, the light will be turned on.



03

If no motion signal is detected after the delay time has elapsed, the light will turn off.

2. Two-stage dimming function (light reduction in the range of 10%,20%,30%,50%)

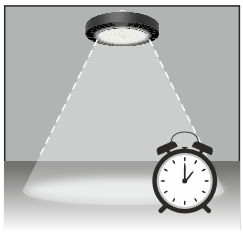


01

When the ambient light is sufficient, even if there is a motion signal, the light will not be turned on.

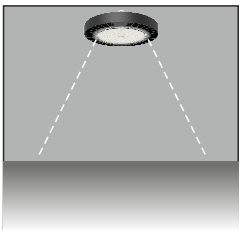
02

When the ambient lighting is insufficient and the sensor detects a motion signal the light stays on enabled.



03

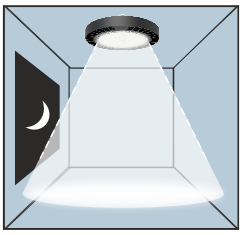
If no motion signal is detected after the delay time, the light output will be reduced to set level.



04

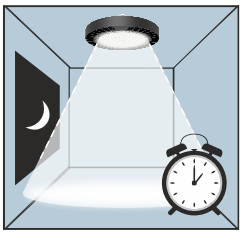
If there is no traffic signal after the waiting time, the lights will turn off.

3.Daylight priority.

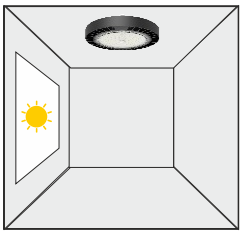


The light turns on automatically when the ambient brightness is lower than the set lux level.

When the ambient brightness is insufficient, the light brightens up to 100% when motion is detected.



The light dim to the standby level if no movement is detected after the hold time has elapsed.

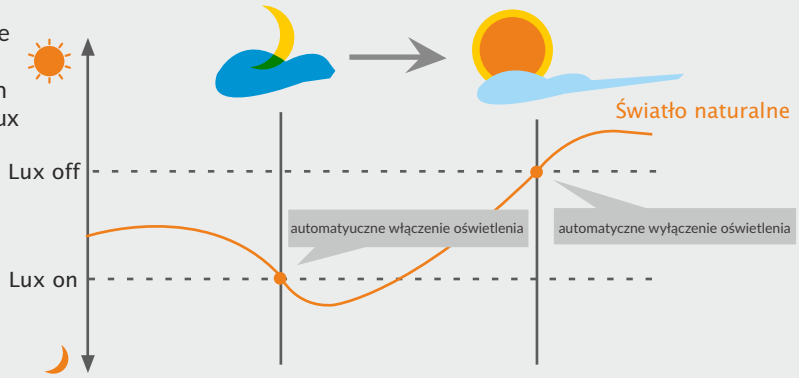


Turns off when the ambient lux level is higher than the set lux value.

Thanks to the daylight priority function, the LHBZMS is able to distinguish the brightness of artificial light from natural light when installed inside the fixture and automatically turn off the light when the ambient brightness exceeds the set lux level.

Daylight priority condition:

1. The standby period is +∞;
2. The dim level in standby mode is: 10%, 20% lub 30%;
3. The daylight threshold is: 30Lux, 50Lux, 80Lux lub 120Lux.



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Functions and parameters that can be configured using the remote control:

- Sensor excitation level
- Motion detection sensitivity
- Excitation hold time
- Excitation level of the twilight sensor
- Low state hold time
- Low state level

Indeks : LHBZMSR
Simple and intuitive remote control operation.

Turn ON or OFF the sensor.

MW/PIR — Exchange from Microwave detection to PIR detection, for future use.

Scene — Press it to start detection programming; before pressing any other buttons, the screen shows default programming (Detection Area 100%, Holdtime SS, Daylight Disable, Standby Dimming 10%, Standby Period OS)

Start — Press it before you try to memorize program inte the remote; After pressing it, Son the screen will blink and keeping blinking while making the program.

Memory — Press it after programming, the blin king S will become a solid M, thatmeans the program has been well memorized .

Apply — Press it to deliver the preset program to the specific sensors; every presswill make the whole screen blink gently.

Parameter setting buttons:

The mai n functional buttons to adjust the factors to wanted level up.

The mai n functional buttons to adjust the factors to wanted level down.

POWER % — Supports to manually change dimming output in detection made; Press it, specific icon on the screen will blink and press the + - buttons to adjust.

Also known as "sensitivity", 100% means the highest sensitivity and longest distance. Press it, specific icon on the screen will blink and press the+ - buttons to adjust.

The period thet light will stoy illuminated 100% after no motion's detected; Press it, specific icon on the screen will blink and press the +- buttons to adjust.

The preset lux level to compare with ambient brightness when motion gets detected; Press it, specific icon on the screen will blink and press the+ - buttons to adjust.

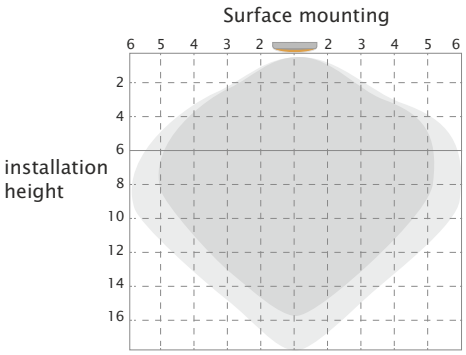
The period after holdtime, during which the light keeps standby dimming level; Press it, specific icon on the screen will blink and press the + - buttons to adjust.

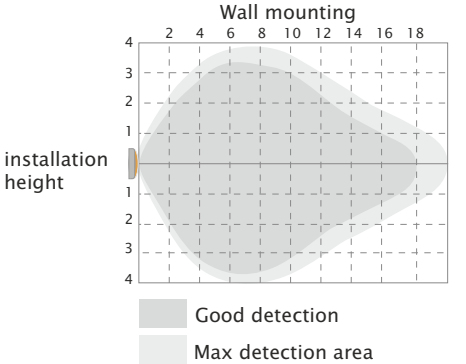
After holdtime, the light will dim from 100% to optional standby dimming levels; Press it, specific icon on the screen will blink and press the + -buttons to adjust.

Test 2s — Supports to check if the sensor works correctly with a short 2S holdtime;Press it and the holdtime will change to 2S, and it con't be memorized.

Detection Area:

Typical installation height up to 15m with the detector sensitivity set to 100%.





Good detection

Max detection area

One remote control controls all luminaires - the parameters saved on the remote control are sent to the luminaires within the remote control's reach.
It is also possible to set other parameters for individual luminaires or their groups (e.g. rows or hall areas).

The luminaires remember the last parameter settings.

On/off control | Detection area | Hold time | Daylight threshold | Stand-by period | Stand-by dimming level | Remote control setting | 10-15M Highbay | warranty 5 years

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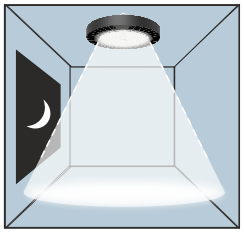
Luminaire control - TUYA + motion and twilight sensor.

Indeks: LHBZT

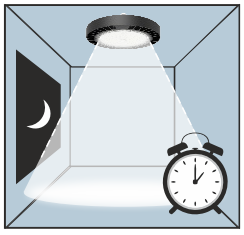
- Tuya Smart application is an IoT platform that enables remote control of smart devices.
- The application is available on mobile devices with Android and iOS systems.
- The application allows you to set any lighting scenes.

Example setting:

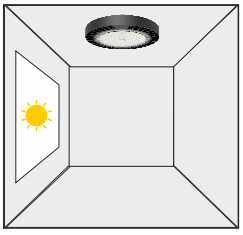


The light turns on automatically when the ambient brightness is lower than the set lux level.

When the ambient brightness is insufficient, when motion is detected, the light brightens to 100%.



The light dims to standby level if no movement is detected after the hold time has elapsed.



Turns off when the ambient lux level is higher than the set lux value.

LUMAX luminaires with the Zhaga module can be controlled using the Tuya Smart application or a voice assistant.
They offer a number of advantages, including:

- Possibility of manual control, **configuration, grouping and creation of scenes from a convenient interface using Andorid/iOS touch devices** by the building staff.

- Schedules and Scenes: Set schedules to turn lights on and off at specific times, or create scenes for lights to change brightness based on trigger events such as sunset or a change in weather.

- Work with voice assistants via WiFi gateway: You can control your lighting with your voice using voice assistants such as Google Assistant or Amazon Alexa.

- **Remote control via gateway: You can turn on, turn off and adjust the lighting from anywhere using your smartphone or tablet.**

- There is a rich ecosystem of Tuya fixtures, from lighting fixtures to sensors and other IoT devices Tuya fixtures are available.

Compared to the possibilities of control using a PIR sensor, control using TUYA software and a microwave sensor additionally allows:

-control of luminaires from a phone or tablet,
- by installing additional gates, you can group luminaires in particular areas and establish communication via the Internet, giving you the ability to view the current status of the luminaires and control the luminaires from anywhere.

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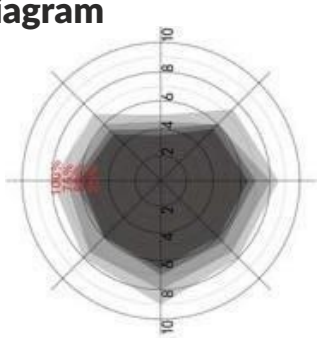
Parametry mikrofalowej czujki zmierzchu i ruchu:

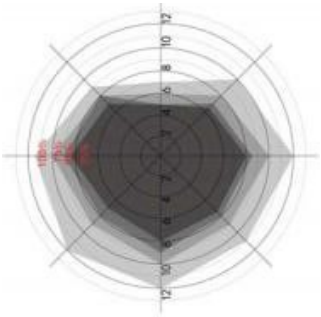
Parameters	
Radar operating frequency	5.8 GHz ±75 MHz ISM band
Transmit power	1mW Max
Delay setting	5S/30S/1min/3min/5min/10min/20min/30min graffti smart APP
Dimming ratio	10%(1.0-1.2V) 20%(1.9-2.1V) 30%(2.9-3.1V) 50%(4.9-5.1V) graffti smart APP
Waiting time	0s/10S/1min/3min/5min/10min/30min/+∞ graffti smart APP
Induction range	25%/50%/75%/100% graffti smart APP
Detection distance	More than 3m, see radiation pattern
Installation height	3-12m 15m Max. (Induced height greater than 1m at 15m height)
Detection angle	150° wall installation, 360° ceiling installation
Wireless comunication	
Operating frequency	2.4GHz ISM band
Wireless standard	Low Power Bluetooth 4.2/5.0
Transmit power	≤10.5dbm
Environmental parameters	
Working ambient temperature	-25°--+60°
Storage temperature/humidity	-40 -+ 80 humidity: 10%-95% undoubtedly knot
Other parameters	
Protection level	IP65 (with Zhaga Book 18 base)
Product category	Class II electrical appliances
Life span	≥50000h @ Ta full load

Microwave radiation diagram

Ceiling installation: 3 m

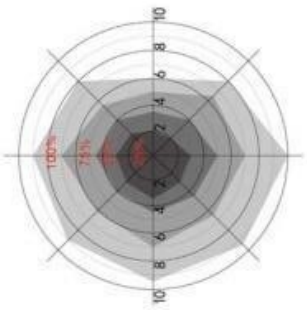


Sensitivity：
100%/60%

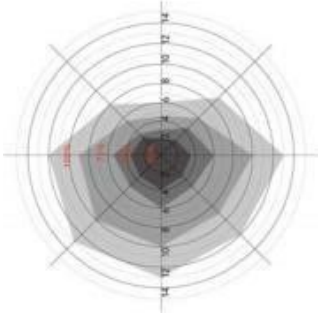


Normal walking:
(speed: 1m/s)

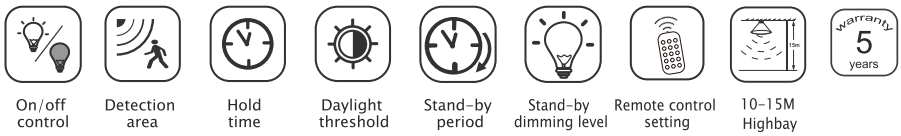
Ceiling installation: 12 m



Sensitivity：
100%/60%



Normal walking:
(speed: 1m/s)



On/off control | Detection area | Hold time | Daylight threshold | Stand-by period | Stand-by dimming level | Remote control setting | 10-15M Highbay