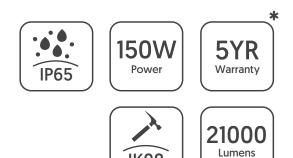
# Glow UFO High Bay

### **Industrial Range**

CODE: GLOWUFO-150CW/MS





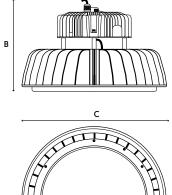


#### **TECHNICAL DRAWINGS**

**IK08** 

Specification	Glow UFO
System Power	150W
Sensor Driver	Merrytek
LED Chipset	Samsung
Colour Rendering Index	>85
Lumen Output	21000Lm
LED Efficacy	140 Lm/cW
Power Factor	>0.9
Sensor Type	Microwave
IP Rating	IP65
IK Rating	IK08
Colour Temperature	6000K
Beam Spread	120°
Housing Material	Aluminium
Diffuser Material	Tempered Glass
Operating Temperature	-20 to +50°C
Input Voltage	AC200-240V, 47-63Hz
Dimensions	260mm x 165mm
Weight	3.8kg
MacAdam Step	<3
Lifetime	50,000 hours, L70-B10 [Ta 25 °C]
CE Standards	EN60598-1, EN 60598 2-5, EN62493, EN55015, EN61547, EN61000-3-2, EN61000-3- 3, EN62722-1, EN62722-2-1 and EN50581
CE Directives	LVD, EMC, ERP & RoHS

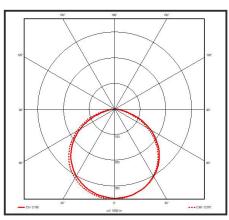
\* Warranty terms and conditions apply





A = 150mm C = 260mm B = 165mm

#### LUMINOUS INTENSITY DISTRIBUTION



#### Information is subject to change and can be withdrawn without notice

For further information on our products or terms and conditions visit our website www.qvis.co.uk/lighting or email: sales@qvislighting.com



### 1. Features



- Operating voltage 120~277V AC,
- Patented microwave antenna, mounting height is 15m Max
- Supports high-sensitivity and low-sensitivity modes (for metal ceilings, metal reflector mounting environments)
- Work with 1-10V dimmable LED driver, easy to achieve 2-step or 3-step dimming function.
- New patented remote control to adjust the transmitting angle to avoid misuse
- Dim+/Dim- to set occupany light level

	Operating Voltage Rage	108-305V AC, 50Hz/60Hz	
Input	DC Input Voltage	N/A	
	Rated Voltage	120-277Vac,60Hz	
	No-load Power	N/A	
	Stand-by Power	<1W	
	Surge Test	LN: 1kV	
	Working Mode	ON/OFF function, 1-10V step dimming	
	Type of Load	Inductive or resistive Load	
Output	Load Capacity	120VAC: 4A; 220-277VAC: 3A	
Output	Current of Load	N/A	
	Max. Surge Capacity	50A (50% Ipeak, twidth =500uS, 230Vac full load, cold start);	
		80A (50% Ipeak, twidth =200uS, 230Vac, full load, cold start)	
Dim Interface		< 50mA (Non-constant source)	
	1-10V Dimming	10%(1.4-1.6V), 20%(1.9-2.1V),	
		30%(2.9-3.1V), 50% (4.9-5.1V)	
Dim interface	Synchronous Control	N/A	
	High Low-level	N/A	
	PWM Control	N/A	
	Operating Frequency	5.8 GHz ±75 MHz, ISM Band.	
	Transmitting power	0.5mW Max.	
Sensor	Hold time	5s/30s/1min/3min/5min/10min/20min/30min	
Parameters	Stand-by DIM Level	10%/20%/30%/50%	
	Stand-by Period	0s/10s/1min/3min/5min/10min/30min/+∞	
Detection Area		25%/50%/75%/100%	

#### 2.Parameter



Daylight Sensor	5lux/15lux/30lux/50lux/100lux/150lux/Disable (Ambient light		
Detecting Radius	diffusion) See detection pattern		
-	15m Max		
	150°(wall mounting), 360°(ceiling mounting)		
	N/A		
• •	N/A		
0	N/A		
	N/A		
-	N/A		
Operating Temperature	-35°C…+55°C		
Storage Temperature	Temperature:-40℃+80℃;Humidity:10%-95%		
	(non-condensing)		
Safety standards	IEC60669-2-1, IEC60669-1		
	AS/NZS 60669.1, AS/NZS 60669.2.1		
	UL60730-1		
EMC standards	EN55015, EN61000-3-2, EN61000-3-3, EN61547		
	AS/NZS CISPR 15, AS/NZS 4268		
	FCC Part 15C, Part 15B		
	EN 60950-1, EN301489-1, EN 201489-3, EN300440		
ent	Compliant to RoHS		
Certificate	cULus, CE, SAA, FCC, RED		
Wiring	SJTW,5*18AWG (USA); H05RR-F,5*18AWG (Europe,Australi		
	a); exposed line length: 810-830mm		
Wiring color	Sheath: Black Core: Red, White, Black, Gray, Purple (US);		
	blue, brown, red, purple,Gray (Europe, Australia)		
IP Rating	IP65		
Protection Class	Class II		
Installation	Independent		
Dimension	(ΦxH)72*59mm		
Package	Instruction+ White box+ White box tags+ Clapboard+		
	Carton(K=A)		
	MC054V RC A: 225g, MC054V RC B:246g,		
	MC054V RC C:225g , MC054V RC D:165g		
	MC054V RC C.2259, MC054V RC D. 1659		
	Detecting Radius Mounting Height Detecting Angle Operating Frequency Transmitting power Transmitting distance Modulation mode Number of coding Operating Temperature Storage Temperature Storage Temperature Storage Temperature EMC standards EMC standards Environmental Requirem ent Certificate Wiring Wiring color IP Rating Protection Class Installation Dimension		

Note

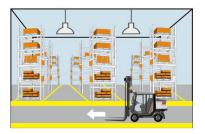
1. "N/A" means not available.

2. Detection area is effected on volume of motion object and motion speed. The detection area is tested by a 165cm height person and walking speed is 0.5m/s.

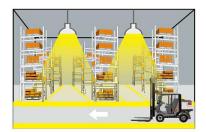


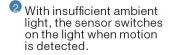
### 3. Function

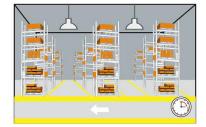
1) On/OFF Function (stand-by period be set to "0"s)



With sufficient ambient light, the light will not be switched on even if with motion signal.

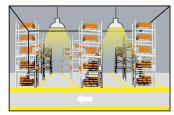




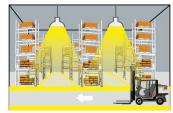


After elapse of hold time, the sensor switches off the light when no motion is detected.

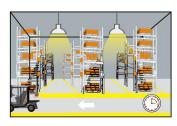
2) 2-step dimming function (stand-by period be set to "+∞")



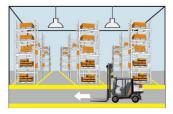
If there is no motion detected, the light will be remained at a low light level all the time.



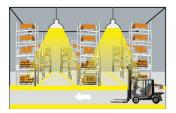
When motion is detected, the sensor will switch on the light to 100% brighteness



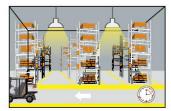
- After elapse of hold time, the sensor dims the light at the present low light level if no motion is detected.
- 3) 3-step dimming function (stand-by period be set to "10s/1min/3min/5min/10min/30min")



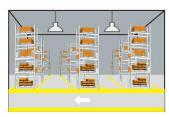
With sufficient ambient light, the light will not be switched on even if with motion signal.



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



After elapse of hold time, the sensor dims the light at a low light level if no new motion is detected.



After elapse of standby period, the sensor switches off the light if no motion is detected in the detection zone.



0.63" [16.00mm]

6

0.12"

10

0.98"

[25.00mm]

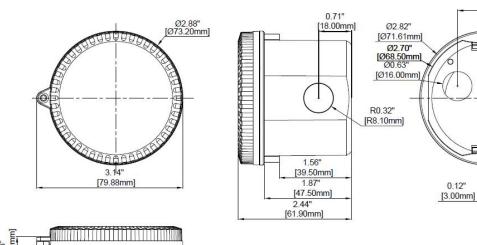
0.39" [10.00mm]

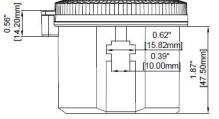
Ø0.12" [Ø3.00mm]

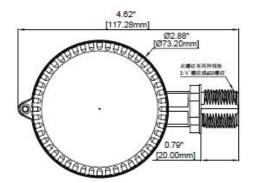
0.79" [20.00mm

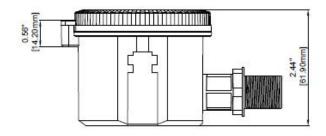
Ø0.10" [Ø2.60mm]

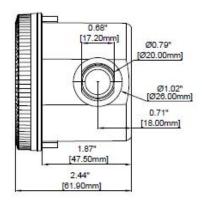
### 4.Dimension (mm)





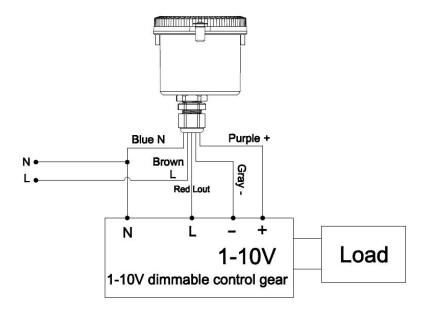






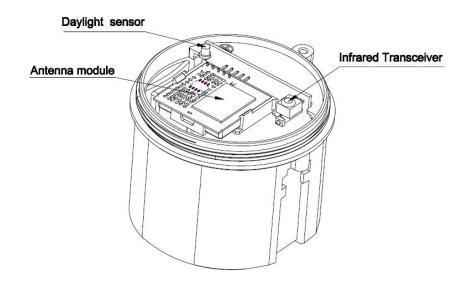


### 5. Wiring



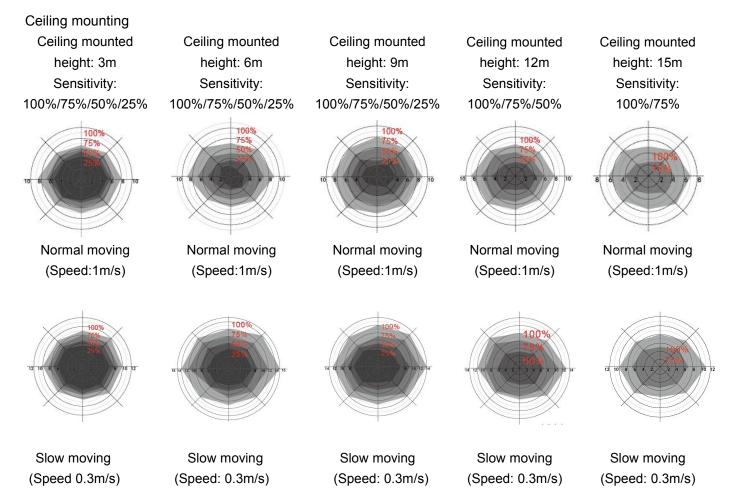
\*The sensor is designed for connect one load only. Connect more than one loads may damage the sensor.

### 6. Function Diagram



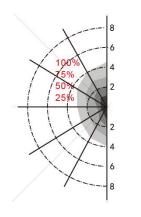


### 7. Radiation Pattern

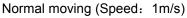


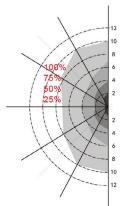
\*Only 100%/75%/50% detection sensitivity is workable when installed at 10m & 15m mounting height. 25% sensitivity is not able to detect motion signal.

Wall mounting



Horizon mounted height: 2m Sensitivity: 100%/75%/50%/25%





Slow moving (Speed 0.3m/s)



### 8. Remote Control

Remote Control Setting	Button	Remarks
		Press the "ON/OFF" button, the light goes to constant on/off mode, sensor is disabled. Press "Reset" "Sensor motion" button to quit from this mode and the sensor starts to work.
	Reset	Press "Reset" button, all parameters are same as setting of factory settings.
	Senaor motion	Press "Sensor motion" button, the light quits from the constant on/ off mode, and the sensor starts to work ( The latest setting stays in validity )
5m 10m 15m	DIM Test	Press "DIM Test" button, the 1-10 V dimming works to test whether the 1-10Vdc dimming ports are connected properly. After 2s, it returns to the latest setting automatically.
	DIM + DIM - DH - DH	"Override DH", and "DH Mode" that the two functions are not applicable for MC054V RC2.
	→ Q1 Q2 Q3	Scene Detection Hold Stand-by Devilght Sensitivity   Options Area Time period dim level Sensor model   Q51 100% 5min 10min 10% 30Lux Hs   Q52 100% 10min 30min 10% Disable Hs   Q53 100% 20min 30min 10% Disable Hs   Note: Detection area / Hold time / Stand-by period / Stand-by dim level / Daylight sensor can be adjusted by pressing the corresponding button.   The latest setting will stay valid. Valid. Valid Valid Valid
		Press the "TEST 2S" botton can enter the test mode any time. At the mode, the sensor parameters as below: Detection Area is 100%, Hold Time is 5s, Stand-by Dim Level is 10%, Stand-by Period is 0s, daylight sensor disable. This function only for testing. Quit the mode by pressing "RESET" or any other function buttons.
		Press"HS" button to set the detection area to be high sensitive. Press"LS" button to set the detection area to be low sensitive. The adjustment bases on the "Detection Area" parameter you set.
	→ (*	Daylight Sensor Set up daylight threshold: 5Lux/15Lux/30Lux/50Lux/100Lux/150Lux/ Disable。
(a) (a) (a)	→ Ø	Stand-by period Set up stand-by time: 0S/10S/1min/3min/5min/10min/30min/+∞
133	$\rightarrow$ $\odot$	Hold time Set up hold time: 55/30S/1min/3min/5min/10min/20min/30min
		Stand-by dim level Set up stand-by dim level: 10%/20%/30%/50%
	····)	Detection Area Set up detection area: 25%/50%/75%/100%
		Remote Distance Toggle button can set the remote distance of remote control and sensor.

#### 9. Initialization

1/ On/Off function /3-step dimming function:

After power on, the sensor automatically turns on light at 100% brightness. After 10sec, it turns off the light. During the initialization, the sensor is not able to detect movement.

2/ 2-step dimming function:

After power on, the sensor automatically turns on light at 100% brightness. After 10sec, it dims the light to a low light level (set by stand-by dim level). During the initialization, the sensor is not able to detect movement.

#### 10. Factory Setting

Detection area: 100%, Hold Time: 5S, Stand-by Period: 0s, Stand-by dim level: 10%, Daylight Sensor: Disable



#### **11. Override Function**

Switch on and off power 3 times to cancel sensor function, switch on and off one time to recover sensor function

#### 12. Application Notice

1) The sensor should be installed by a professional electrician. Please turn off the power before installing, wiring, changing the setting of the DIP switch.

2) The sensor which installed in the plastic and glass lampshade will reduce the sensitivity. For every 3mm increase in thickness, the sensitivity will be reduced by 20%.

3) The dimming performance could be different from different 1-10v drivers.

4) The light sensitivity threshold is in a sunny environment, no shadow and ambient light diffuse

reflection..Ambient lux level could be different in different environment, weather, climate, time-of-day and season.

5) The parameters of the sensor may need to be reconfigured in different installation environments. Please refer to the following instructions or contact the manufacturer.

6) This sensor is for indoor use only. It will affect the waterproof effect for outdoor use. Wind, rain, and moving objects around will cause false triggering.

7) The distance between any inductive sensors should be greater than 3m.

8) Do not place the sensor close to high-density objects such as metal, glass,concrete walls, etc, false triggering could happen. When the sensor is installed in a metal lamp, metal reflective surface, or a narrow enclosed environment, the microwave will be reflected repeatedly and cause false triggering. Please reduce the sensitivity or contact the manufacturer for technical support.

9) Please ensure that there are no moving signals around the sensor, such as fan, DC motor, sewer pipe, air outlet, etc., the sensor may generate false trigger.

10) You are advised to test 5 samples before mass application of sensor in a new lighting project.

11) Due to continuous improvement, the contents of this instruction could be changed without prior notice.