# Bi-Level LED Wall Bracket/Stairwell Luminaire



### APPLICATION

The LWLV Series of LED stairwell fixtures are a cost effective, energy-saving replacement for less efficient fluorescent wrap-around fixtures. The LWLV Stairwell fixture features a full length U-wrap Acrylic lens and a one-piece fabricated steel body. These LED Stairwell fixtures are ideal for lighting in parking garages and stairwells and/ or to help you meet applicable building and safety codes in residential multi-family buildings, workshops, utility rooms, corridors and other commercial applications. Part of the Globalux family of LED Smart lighting fixtures featuring integral dimming drivers and occupancy sensors which maximize energy savings by intelligently managing illumination levels to avoid wasted watts. The system maximizes energy savings by offering bi-level lighting, which maintains minimum illumination levels when the application areas are empty.

### **FEATURES**

- · Thermal/lumen balanced light engines
- Steel construction
- 4000 Kelvin Standard
- · Low power consumption
- · Can be ceiling or wall mounted
- For covered use only damp rated
- Optional occupancy sensor available
- · Equipped with integral sensor that dims the fixture to either 10%, 20%, 30% or 50% of full light output for safety and code compliance and automatically switches to full illumination when the space is occupied.
- Optional On/Off or Bi-Level motion sensors, high voltage transformers, emergency battery backups, whips and cords.

### CONSTRUCTION

Rugged construction, solid die formed, cold-rolled steel housing. All surfaces powder coated after fabrication. Frosted acrylic diffusers provides even consistent light while reducing glare.

### MOUNTING

Suitable for surface mounting, suspension, or stem mounting, individually or in continuous rows.

### ELECTRICAL

Equipped standard with a optional 0-10V continuous dimming driver that works with any standard 0-10V control/dimmer. Long-Life LED's 60,000 hours at L80 with projected life over 100,000 hours for reduced life cycle maintenance costs.

### CERTIFICATION

All luminaires are built to UL 1598 and 2108 standards, and bear appropriate ETL labels. Damp location labeling is standard. Emergency equipped fixtures labeled UL924. Adheres to LM70, LM80, and TM21 industry standards.

### WARRANTY

5-year limited warranty. See complete warranty for terms and exclusions. (Labor not included).

### ORDERING INFORMATION

Example Model Number: LWLV-2-17-MVD-840-EML8-MOSB

GlebaLux

LWLV	2	17	MVD	840	MOSB	
SERIES	FORM FACTOR	RATED WATTAGE	DRIVER TYPE	CRI AND KELVIN	SENSOR	OPTIONS
	<b>2- 24" Length<sup>2</sup> 3- 36" Length<sup>1 2</sup> 4- 48" Length<sup>2</sup></b>	2' Housing 17- 20W (2069) Lumens) <sup>2</sup> 3' Housing 27- 27W (2704) Lumens) <sup>1</sup> 4' Housing 34- 34W (4023) Lumens) <sup>2</sup>	(MVD- 120-277V; 0-10V) Dimming	<b>840</b> - 80 CRI; 4000 Kelvin <sup>7</sup> 850 - 80 CRI; 5000 <sup>1</sup> Kelvin	MOSB- Integrated Bi-Level Microwave sensor	EML8- Emergency Battery Pack, 800 Lumens EML16- Emergency Battery Pack, 1400 Lumens Notes: <sup>1</sup> Made to order items. Minimum 90 day lead time. Minimum 500 order quantity. <sup>2</sup> DLC Listed <sup>3</sup> DLC Premium Listed

<sup>4</sup>Required option. Minimum 2 week lead time

# Glebalux

# Tri-level Control (Corridor Function) MOSB



## Function and Options

In a lot of buildings, there is a need that the moving object in corridors or undercover garages can trigger a transmitter luminary with connected receiver luminaries from more than one direction. Every transmitter luminaries (containing the sensor) should be able to trigger the whole installation whether it's an on/off or dimming installation.

See the below example that there are several exits/ entrances is triggered, the luminaries in the group light up.

## 1. Tri-level Control (Corridor Function)

Same as Tridonic excel ballast, this function inside the motion sensor to achieve tri-level control, for some a reas require a light change notice before switch-off.

It offers 3 levels of light: 100%--> dimmed light (10%, 20%, 30%, 50% optional)—off; and 2 periods of selectable waiting time: motion hold time and stand-by period; Selectable daylight threshold and freedom of detection area.

## Electrical Characteristics

Electrical Characteristics						
Operating voltage:		120- 277Vac				
Switched power (capaci	tive load):	400W@120Vac; 1000W@277Vac				
Standby power:		<1W				
Microwave frequency:		5.8GHz+/-75MHz				
Microwave power:		<0. 2mW				
General						
Warm time:	20s					
Detection area:	10/50/75/100%, can be customized					
Hold time:	5s/30s/1mi n/5min/10r can be cus	nin/20mi n/30mi n,				
Standby period:	0s/10s/1m n/5min/10r can be cus	nin/30mi n/1h/+				
Standby dimming level:	10%/20%/3 customized	30%/50% can be d				
Daylight threshold:	2~50Lux darkness,	daylight/twilight/ can be customized				
Sensor principle:	High Frequ	iency (microwave)				
Detection range:	(O x H): 12	2m x 6m				
Detection angle:	30~150					
Mounting height:	6m					
Environmental						
Operating temperature:	-35 C ~ +7	'0 C				
IP rating:	IP20					
Listing						
Certificate:	ETL, FCC					

With sufficient natural light, the light does not switch on when presence detected

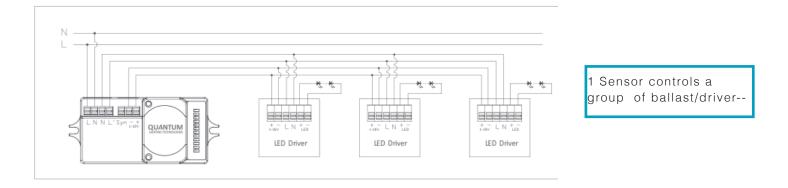
With sufficient natural light, the person comes from any direction, the group of lamps switch on.

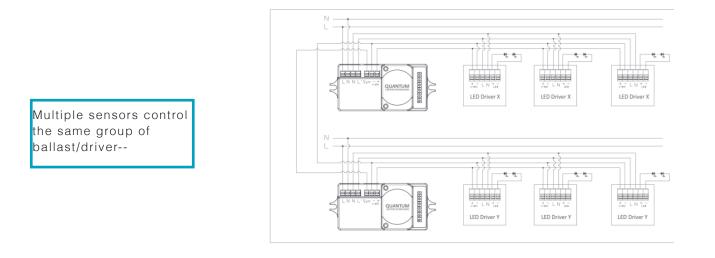


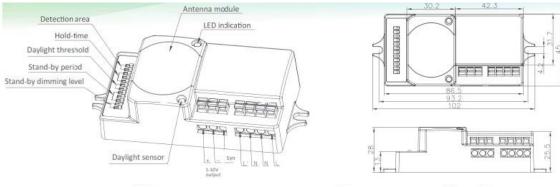




## Wiring Diagram







Model: MSOB

Mechanical structure (mm)

# Globa

## Tri-level Control (Corridor Function) Model: MOSB

## 6.Loop-in and loop-out

Double L N terminal makes it easy for wire loop-in and loop-out, saves the cost of the terminal block and assembly time.

Note: 1. Motion sensor overwrites daylight sensor, meaning the daylight sensor starts to check the ambient natural light only when the lamp is switched off (motion hold-time elapsed)

2. This 1-10V output is isolated, SELV output.

## Settings

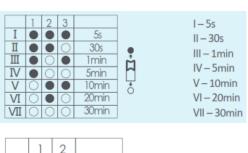
2.

### 1.Detection Area

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

### 2 Ι 100 % Ċ Π 75% Ш 50% IV 10%

|-100%II – 75% III - 50% IV - 10%





I – Disable
II – 50Lux
III – 10Lux
IV – 2Lux

	1	2	3			I – 0s
Ι				Os		II – 10s
Π			0	10s	•	III – 1min
Ш	۲	Ó		1min	ά.	IV – 5min
IV		0	0	5min	7	V – 10min
V	0			10min	•	
VI	Ο		0	30min	0	VI – 30mir
VII	0	0		1h		VII-1h
VIII	0	0	$\bigcirc$	+00		VIII – +∞

	1	2			
Ι			10%	ę	I- 10%
Π		0	20%		II – 20%
Ш	0		30%	Ŏ	III – 30% IV – 50%
IV	$\bigcirc$	$\bigcirc$	50%		10 3070

Hold-time

Hold-time means the time period to keep the lamp on 100%, after all motion has ceased (detection are vacated).

#### 3. Daylight sensor

The daylight threshold can be set on DIP switches, to fit for particular application.

#### 4. Stand-by period (corridor function)

This is the time period you would like to keep at the low light output level before it is completely switched off in the long absence of people.

Note: "Os" mean on/off control;

"+ " means bi-level dimming control, fixture never switches off.

#### 5. Stand-by dimming level

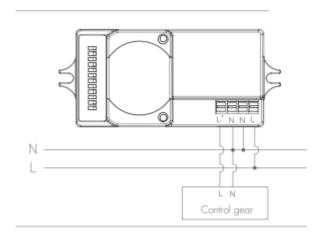
This is the dimmed low light output level you would like to have after the hold-time in the absence of people.



2. 100H burn-in mode for fluorescent lamp

With simple operation, rapidly turn off/ on the fixture 3 cycles within 3 sec. (the green LED on the sensor flashes and the fixture blinks 3 times to indicate the success of setup), lamp will be 100% on for 100 hours, and then automatically goes to sensor mode after 100 hours. This is crucial to secure the lifetime of fluorescent lamp, when new fixture is installed, or old lamp is replaced.

This 100H burn-in feature can be cancelled by turning off/ on the fixture 1 cycle within 1 sec



### 3. Ambient daylight threshold

With simple operation, rapidly turn off/ on the fixture 2 cycles within 2 sec

- 1. The green LED on the sensor flashes slowly for 5 seconds, meanwhile the fixture blinks twice
- 2. The Photodiode measures and remembers the surroundings lux for 1 sec.
- 3. The fixture and green LED will be on for 10s to indicate successful learning.

This feature enables the fixture to sample luminance at any time to set lux threshold level.

The latest surroundings lux value overwrites previous lux value learned.

Both the settings on DIP switch and the learned ambient lux threshold can overwrite each other. The latest action controls.

### 4. Zero-cross relay operation

Designed in the software, sensor switches on/off the load right at the zero-cross-point, to ensure the minimum current passing through the relay contact point, and product the relay for long life.

### 5. Condominium control function

In many cases, several sensors ae connected together to control the sex fixture, or to trigger on each other, the sudden on/off of the lamp tube or the ballast/driver causes huge magnetic pulse, which may mis-trigger the sensor. This has a very advanced software to ignore that interference. By connecting L' terminal with L' on another sensor, if any of the transmitter fixture (containing sensor) is triggered, all luminaries (including receiver and other transmitter unit in the group) will also light up.

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