

## PRODUCT DESCRIPTION

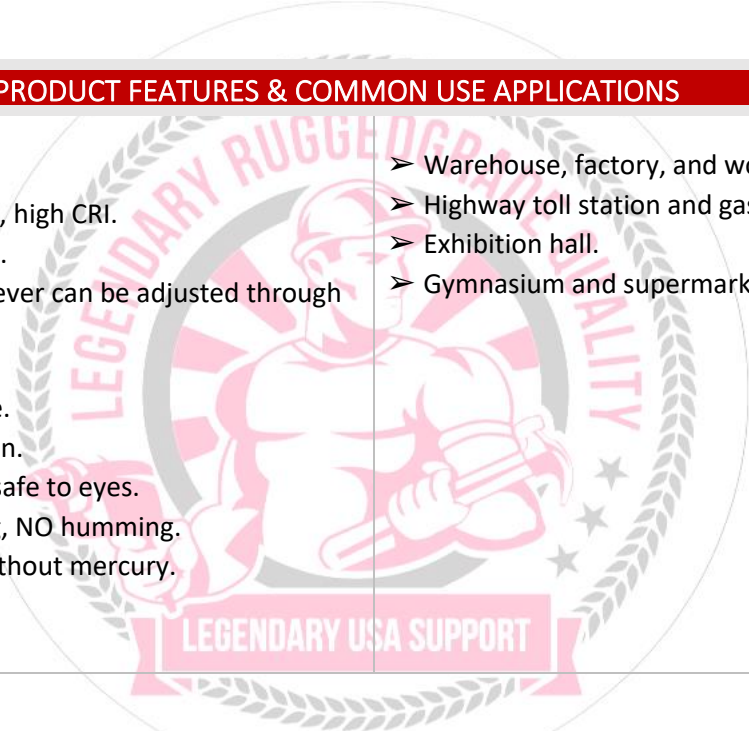
New Fully Tunable Panel allows you to perfectly customize your settings to fit your needs. 3CCT switch makes it easy to switch between 3500k, 4000k and 5000k also the wattage selectable switch allows you to dim the light as needed.



#: RGL-PANEL-40W

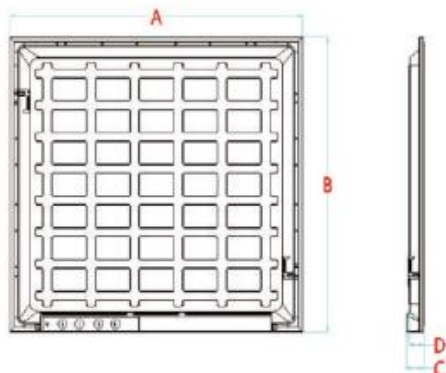
## PRODUCT FEATURES & COMMON USE APPLICATIONS

- UL Cul, DLC certificate.
- Lumileds or Samsung Chip, high CRI.
- Input voltage 120-277VAC.
- Output constant current lever can be adjusted through output cable with 0-10V.
- No UV or IR in the beam.
- Easy to install and operate.
- Energy saving, long lifespan.
- Light is soft and uniform, safe to eyes.
- Instant start, NO flickering, NO humming.
- Green and eco-friendly without mercury.
- Warehouse, factory, and workshops.
- Highway toll station and gas station.
- Exhibition hall.
- Gymnasium and supermarkets, etc



## PRODUCT DIMENSIONS

| MODEL          | SIZE   | A(inch)(mm)       | B(inch)(mm)      | C(inch)(mm)   | D(inch)(mm)    |
|----------------|--------|-------------------|------------------|---------------|----------------|
| BPL-24-50W-L-L | 2x4 FT | 23-47/64" (603mm) | 47-3/4" (1213mm) | 1-1/2" (38mm) | 1-3/16" (30mm) |



Rugged Grade Lighting  
Industrial Grade Solutions



## LEGENDARY USA SUPPORT



US based phone and online customer support



5 YEARS WARRANTY





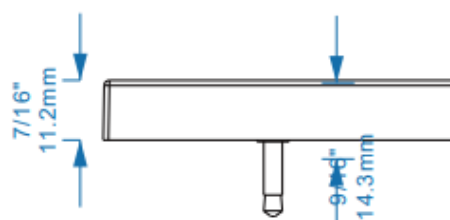
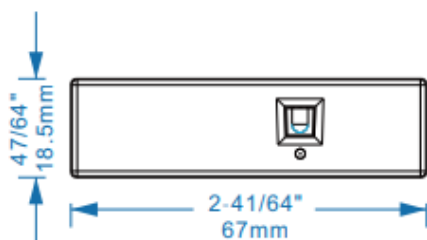
888-953-2476  
sales@ruggedgrade.com

## PRODUCT TECHNICAL SPECIFICATIONS

|                               |  |   |         |           |
|-------------------------------|--|---|---------|-----------|
| <b>OPTICAL</b>                | Input Power (Tolerance : ±10%)         | 50W(Wattage Selectable 40/35/30W)                             |         |           |
|                               | Color Temperature                      | 3500K   | 4000K   | 5000K     |
|                               | Lumen (Tolerance : -10%)               | 5000LM  | 5200LM  | 5100LM    |
|                               | Efficacy (Tolerance : -3%)             | 125LM/W   | 130LM/W | 127.5LM/W |
|                               | CRI                                    | >80   |         |           |
|                               | Color Consistency                      | < 6 Steps (or < 6 SDCM)                                       |         |           |
|                               | UGR (Glare Rating)                     | < 28  |         |           |
|                               | Diffuser Type                          | PC Lens   |         |           |
| Beam Angle (50%) (Tolerance : | 110 Degree                             |   |         |           |
| <b>ELECTRICAL</b>             | Input Voltage and Frequency            | 120-277VAC, 50/60Hz (120-347vac optional)                     |         |           |
|                               | PF (Tolerance : -3%)                   | ≥0.95   |         |           |
|                               | THD (Tolerance : +5%)                  | ≤15%  |         |           |
|                               | Flicker Percent                        | < 5%  |         |           |
|                               | Driver Brand                           | Rugged Grade Lighting   |         |           |
|                               | Driver Model                           | Rugged Grade Lighting Driver                                  |         |           |
|                               | Driver Surge protection                | L/N-PE: 6kV, L-N: 4kV   |         |           |
|                               | Dimming                                | 0-10V dimming standard  |         |           |
| Optional Accessory            | Motion Sensor, Surge-protective Device |   |         |           |
| <b>MATERIALS</b>              | LED Brand                              | Lumileds  |         |           |
|                               | LED Type                               | SMD2835   |         |           |
|                               | LED QTY                                | 96PCS   |         |           |
|                               | Housing                                | Die-cast aluminum   |         |           |
|                               | Housing Color                          | White   |         |           |
|                               | Waterproof Rating                      | Damp (IP41)   |         |           |
|                               | Operating Temperature                  | -22°F to 104°F(-30°C to 40°C)                                 |         |           |
| <b>OTHERS</b>                 | Storage Temperature                    | -40°C TO 45°C   |         |           |
|                               | Operating Humidity                     | 20% - 90% RH  |         |           |
|                               | Storage Humidity                       | 10% - 95% RH  |         |           |
|                               | Warranty                               | 5 years warranty with 24/7 operating hours Luminaire lifetime |         |           |

## PRODUCT MOUNTS & ACCESSORIES

|   |  |
|---|--|
|  | <b>MICROWAVE MOTION SENSOR   PLUG &amp; PLAY</b><br>Model: HD08VR-MA-1<br><b>INFRARED REMOTE CONTROL</b><br>Model: HD05R |
|  | <b>MICROWAVE MOTION SENSOR   PLUG &amp; PLAY</b><br>Model: HD08VR-MB-1 (APP CONTROL)                                     |



## PRODUCT IMAGES & ACTUAL INSTALLATIONS



### IMPORTANT SAFEGUARDS

When working with electrical equipment, basic safety precautions should always be followed, including the following:

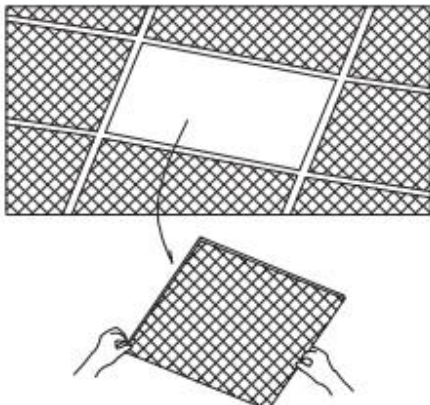
#### READ AND FOLLOW ALL SAFETY INSTRUCTIONS

1. DANGER- Risk of shock- Disconnect power before installation.
2. This luminaire must be installed by the NEC or your local electrical code.  
If you are not familiar with these codes and requirements, please consult a qualified electrician.
3. Suitable for conventional grid ceilings.
4. Make certain power is OFF before starting installation or attempting any maintenance.
5. Do not touch the LEDs or wires coming from the circuit board during the installation process. Damage may occur.

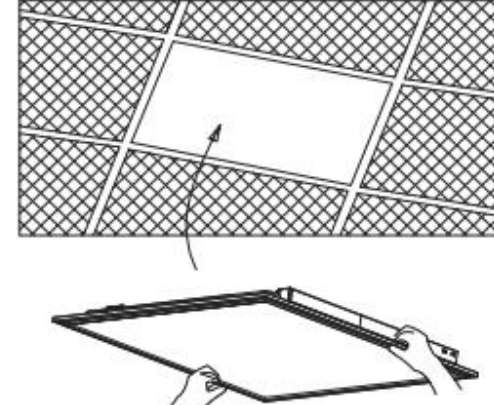


### Installation Procedure

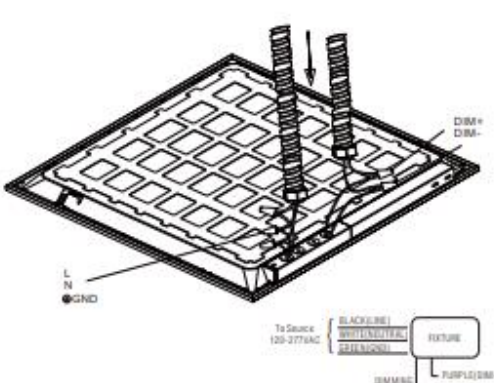
**Step1: Remove 2x2 or 2x4 or 1x4 the from ceiling**



**Step2: Place fixture into ceiling grid**



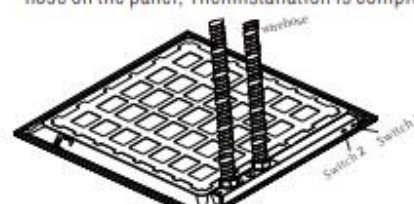
**Step3: Follow the luminaire wiring diagram to wire the appliance correctly**



To Source 120-277VAC

BLACK (L) WHITE (N) GREEN (GND) RED (DIM+) BLUE (DIM-) PURPLE (DIM/MIX) PINK (DIM-)

**Step4: Pull the switch to the appropriate gear, Fixed wire hose on the panel, Then installation is completed**




Switch 2 Switch 1

Watt Tunable Switch 1  
3 different power:  
2"2 : 30W 35W 40W  
1"4 : 30W 35W 40W  
2"4 : 30W 40W 50W

CTT Tunable Switch 2=  
5000K 4000K 3500K

Prevention location

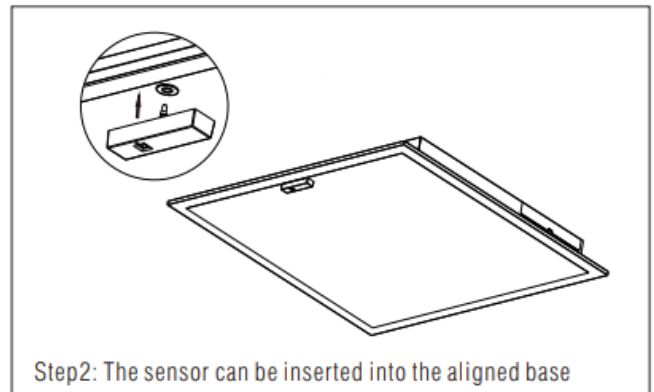
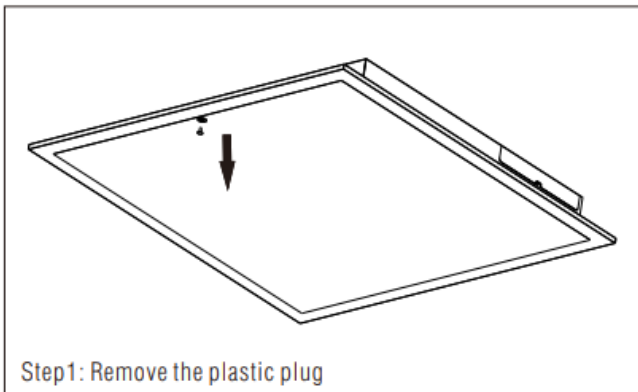




MOTION SENSOR SPECIFICATIONS

|                                    |  |
|------------------------------------|--|
| <b>FREQUENCY</b>                   | 5.8GHz±75MHz   |
| <b>MICROWAVE POWER</b>             | <0.3mW   |
| <b>INSTALLATION HEIGHT</b>         | 6m/19.68ft Max   |
| <b>DETECTION DISTANCE</b>          | ≥3m/9ft  |
| <b>DETECTION ANGLE</b>             | 30-150°  |
| <b>DETECTION AREA</b>              | 25% / 50% / 75% / 100%   |
| <b>HOLDTIME</b>                    | Remote control Options: 5s/ 30s/ 1min/ 3min/ 5min/ 10min/ 20min/ 30min<br>APP Control Options: 5s/ 30s/ 1min/ 2min/ 3min/ 5min/ 10min/ 15min/ 20min/25min/ 30min/ 45min/ 60min/ 90min/ 120min  |
| <b>DAYLIGHT THRESHOLD</b>          | Disable/400Lux/350Lux/300Lux/250Lux/200Lux/120Lux/80Lux/50Lux/30Lux/10Lux/2Lux   |
| <b>STANDBY DIMMING LEVEL</b>       | 10% / 20% / 30% / 50%  |
| <b>STANDBY PERIOD</b>              | Remote control Options: 0s/ 10s/ 30s/ 1min/ 5min/ 10min/ 30min/ 60min/+<br>APP Control Options: 0s/5s/30s/1min/2min/3min/5min/10min/15min/20min/25min/ 30min/45min/60min/+ ∞                   |
| <b>DUSK/DAWN SENSING/PHOTOCELL</b> | Daylight threshold as 30lux/50lux/80lux/120lux/200Lux/250Lux/300Lux/350Lux/400Lux  |
|                                    | Standby period as + ∞  |
|                                    | Standby dimming level as 10% / 20% / 30%   |
| <b>DUSK/DAWN SENSING/PHOTOCELL</b> | 1. Adjust "daylight" value higher than 50lux   |
|                                    | 2. Preset "standby period" 0S  |
|                                    | 3. press MW/PIR button 3 times till MW/PIR icons both blinking on LCD screen, daylight harvesting function enabled. (With BLE version, press DH button, daylight harvesting function enabled.) |
| <b>WIRELESS CONTROL RANGE</b>      | >20m/65ft(bluetooth)   |
| <b>APP DOWNLOAD</b>                | Supported in both APP Store and Google play market   |
| <b>WORKING TEMPREATURE</b>         | -40°F~140°F(-40°C~60°C)  |
| <b>STORAGE TEMPREATURE</b>         | -40°F~176°F(-40°C~80°C) Humidity:85%(non-condensation)   |












MICROWAVE MOTION SENSOR INSTALLATION



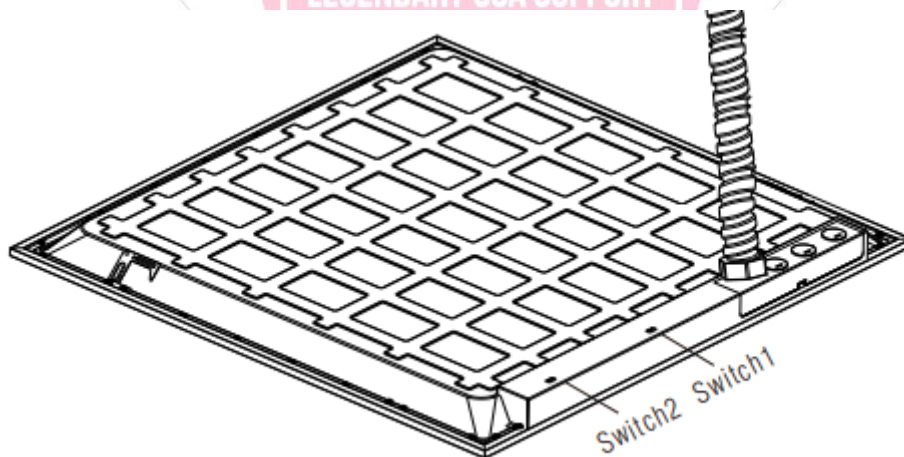
REMOTE GUIDE

REMOTE CONTROL BUTTON FUNCTION INTRODUCTION



-  **ON/OFF** Turn ON or OFF the sensor
-  **NW/PIR** Exchange from Microwave detection to PIR detection, for future use
-  **Reset** Press it to start detection programming; before pressing any other buttons, the screen shows default programming (Detection Area 100%, Holdtime 5S, Daylight Disable, Standby Dimming 10%, Standby Period 0S)
-  **Start** Press it before you try to memorize program into the remote; After pressing it, S on the screen will blink and keeping blinking while making the program
-  **Memory** Press it after programming, the blinking S will become a solid M, that means the program has been well memorized
-  **Apply** Press it to deliver the preset program to the specific sensors; every press will make the whole screen blink gently
-  **Detection area** 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
-  **Hold time** The period that light will stay illuminated 100% after no motion is detected; Press it, specific icon on the screen will blink and press the + - buttons to adjust
-  **Daylight Threshold** The preset lux level to compare with ambient brightness when motion is detected; Press it, specific icon on the screen will blink and press the + - buttons to adjust
-  **Stand-by period** 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
-  **Stand-by dimming level** 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
-  **UP** The main functional buttons to adjust the factors to wanted level
-  **DOWN**
-  **POWER** Supports to manually change dimming output in detection mode; Press it, specific icon on the screen will blink and press the + - buttons to adjust
-  **Test mode** Supports to check if the sensor works correctly with a short 2S holdtime; Press it and the holdtime will change to 2S, and it can't be memorized

LEGENDARY USA SUPPORT

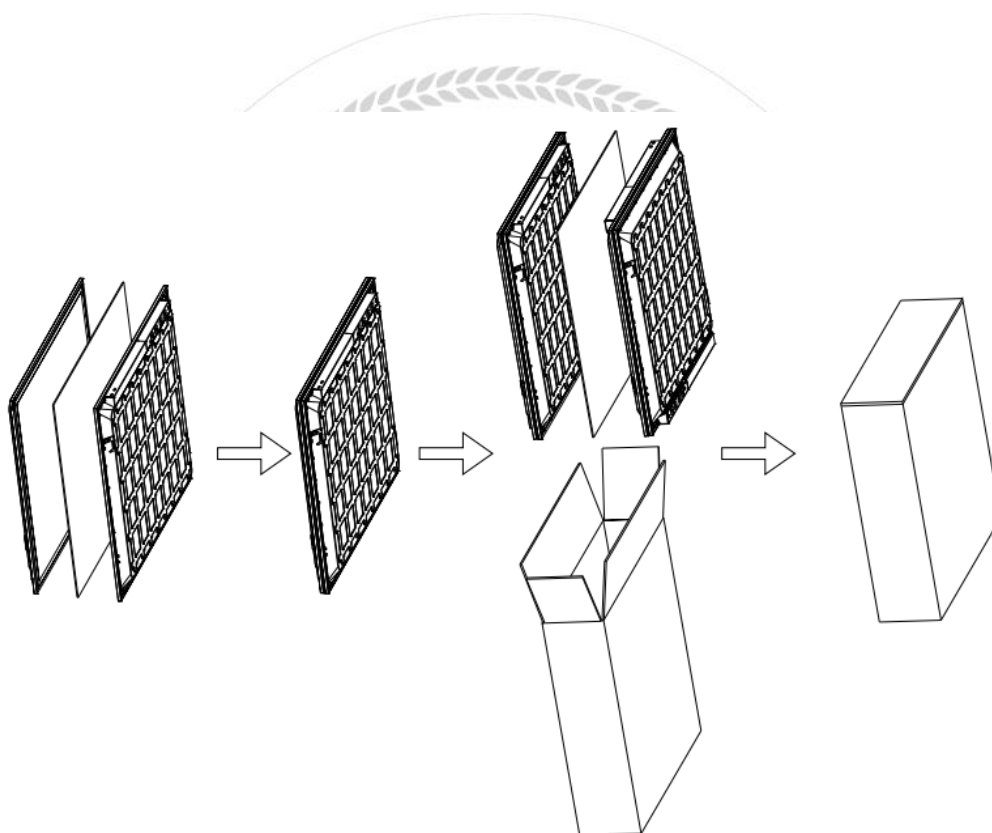


## PRODUCT PACKAGING

### PACKAGING/WEIGHT

| PART NO.       | SIZE  | OUTER CARTON SIZE (L*W*H)          | QTY/CARTON (PCS) | NET WEIGHT (KG)(LBS) | GROSS WEIGHT (KG)(LBS) | 20GP (PCS) | 40HQ (PCS) |
|----------------|-------|------------------------------------|------------------|----------------------|------------------------|------------|------------|
| BPL-22-40W-L-H | 2x2FT | 613*170*625mm<br>24.13**6.7**24.6" | 4 pcs            | 1.8kg<br>3.96lbs     | 9.5kg<br>20.9lbs       | 1660       | 4032       |
| BPL-22-40W-L-L | 2x2FT | 613*170*625mm<br>24.13**6.7**24.6" | 4 pcs            | 1.8kg<br>3.96lbs     | 9.5kg<br>20.9lbs       | 1660       | 4032       |

\*Tolerance of Carton Size: ±15 MM, Tolerance of Weight: ±10%.



PRODUCT WARNINGS

- ⚡ Please turn off power before install or change assembly parts.
- ⚡ The input voltage and lamps should be matched, after connecting the power line.
- ⚡ Please make sure the wiring section is insulated.
- ⚡ Professionals must install and disassemble the lamps.
- ⚡ Surge is the number 1 cause of LED light failure. Outdoor lights must have surge at fixture, pole, and breaker.
- ⚡ Surge is the number 1 cause of LED light failure. Indoor lights must have surge at fixture and breaker.

PRODUCT TROUBLESHOOTING

| Issue                       | Check points   |
|-----------------------------|--|
| Light Flickers              | Check all wiring for disconnections, shorts and burnt wiring and connections. Confirm steady input voltage to the light fixture, fluctuating input voltage will harm the LED driver and can lead to premature failure. Lights with photocells can have photocell tag from ambient light or light reflecting at the sensor. Simply cover the photocell completely and see if flickering continues while the photocell is covered. Call Tech Support for help if none of the above solves the issue. |
| Light does not work at all. | Check all wiring for disconnections, shorts and burnt wiring and connections. Confirm steady input voltage to the light fixture, fluctuating input voltage will harm the LED driver and can lead to premature failure. If input voltage is not in the voltage range of the fixture, you will need to find the source of your input voltage issue. Call Tech Support for help if none of the above solves the issue.  |

For more technical information, install questions, troubleshooting help or warranty claims, we have a dedicated US Tech and Customer Support Team to help solve any issues you have and can be reached by email or phone. If you need help with any of our products, we are here for you so that you are never in the dark!

**BETTER LIGHTS.  
BETTER SUPPORT.**

