ikio
LED LIGHTING

LED PANEL LIGHTS

Superior Efficacy & Lumen Output That Outshine '**Just Brightness**'

www.ikioledlighting.com

LED

PANEL LIGHTS

Superior Efficacy & Lumen Output That Outshine '**Just Brightness**'

IKIO: Your Way To Next-Gen Lighting!

IKIO is a trusted American LED Lighting brand with a proven history of delivering ground-breaking lighting solutions. Through our consistent focus on innovation and dedicated team efforts, we have engineered a wide portfolio of ingenious solutions that cater to our customers' unique lighting requirements. Here's what sets us apart:

- Annual manufacturing capacity of over 10 million fixtures.
- Continuous focus on research & development.
- A world-class, vertically-integrated manufacturing setup.
- Lower in-process rejection rate (<0.68%).
- Major quality certifications (ISO 9001, 14000 & 18001 & OHSAS).

Welcome A New Age Of **Illumination** With **IKIO's** Range Of **Panel Lights**

While traditional ceiling lights do seem to be more affordable than LEDs, they seldom prove to be cost-effective in the long run. Problems such as glare, flickering, humming noises, and excessive power requirements are bound to occur with these lights, causing the need for frequent repairs for the user.

Give your customers peace of mind by ensuring that their lights help save energy bills (which LEDs do — up to 85%) and deliver unmatched brightness and uniform light distribution with IKIO's energy-efficient panel lights.

Lightweight and easy to mount, our panel lights come in three variants — CCT & Power Selectable, RGBW, and Standard. In addition, these LED panel lights can also easily replace your existing fluorescent panels and troffers without requiring a redesign or complete overhaul!

LED Panel Lights That Help You See Better, Save Better & Deliver Better

Making the transition from fluorescent to LED panel lights can prove to be difficult when one has to navigate through different options, lighting technology, and project needs. It's a good thing that we have both edge-lit and back-lit panel lights, which come with superior efficacy, have no toxic mercury, and result in no shadows or dark spots. Our high-performing panel lights offer 80+ CRI that allows the colors to appear crisp and appealing. With us, you can order panels in many sizes, including 1x4, 2×2, and 2×4.

Evenly distributed & flicker-free light.

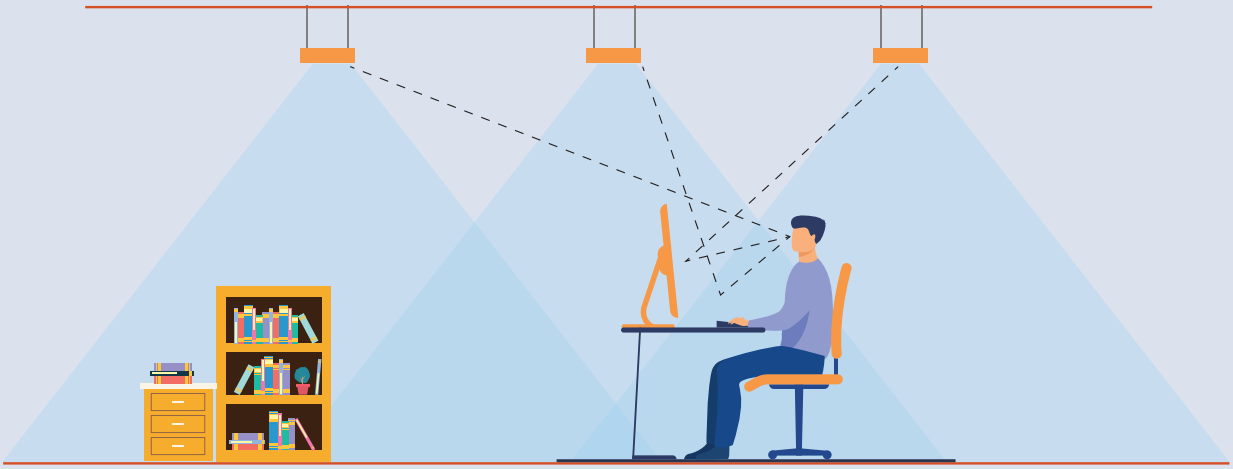
Available in multiple Powers & CCTs.

Supports dimming capability.

Why Is Glare-Free Lighting Important? Significance Of **Unified Glare Rating (UGR)**

When a luminaire is not glare-free, it causes distraction, fatigue & lowers a person's ability to see the details properly in a room. By adhering to Unified Glare Rating (UGR) — the standard measurement of calculating glare from luminaires — one can achieve the correct levels of lighting for their surroundings and ensure that people in the room have clear visibility. The value of UGR ranges from 40 (extremely high glare) to 5 (very low glare), with low UGR considered to be better than high UGR. Here's a good value breakup of what's acceptable and what's not.

UGR <10 - negligible
UGR <19 - desirable
UGR <21 - acceptable
UGR <30 - will definitely cause distraction



IKIO panel lights are UGR rated for lighting installation. Meaning, our products have the appropriate light distribution that will help deliver a UGR of <21 if the fixtures are installed at typical heights and spacings in the space for which it is intended. Please note that getting a UGR of <21 depends on a lot of factors (such as the paint of the walls and ceiling and the furniture placed in the room), and so there can be variations in the lighting results in many cases. Expert guidance is recommended.

DELPHI 1´x4´

CCT & POWER SELECTABLE BACK-LIT PANEL LIGHT

CCT & Power Selectable

Electrical

Power	20 W-30 W-40 W
Voltage	120-277 V
Power Factor	0.9

Lighting Performance

Lumens	2500 lm-3750 lm-5000 lm
Efficacy	130 lm/W
Color Temperature (CCT)	3500 K-4000 K-5000 K
Color Rendering (CRI)	80
Beam Angle	120°
Dimmable Lighting Control	Continuous Dimming to 10% or Below

Environment

Operating Temperature	-14 ºF ~ +133 ºF
Suitable Location	**DAMP**
Ingress Protection Rating (IP)	IP20

Lifespan

Average Life (Hours)	75,000
Warranty (Years)	**10**

Components

LED Light Source	BRIDGELUX 2835
Driver	XZ Power

Construction

Housing	Aluminum
Diffuser	PC (Frosted)
Base / Power Supply	Hard Wired
Finish	White

Application Areas

Ideal for retrofitting inefficient fixtures in malls, hospitals, airports, offices, lobbies and other residential and commercial Spaces.

Qualifications and Certifications

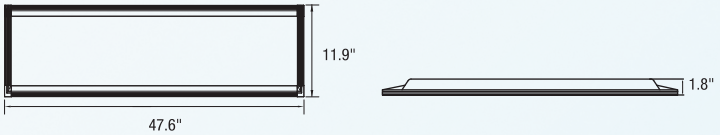
Qualified Part Number	**IK-BL14-40/30/20-354050-YL**

DesignLights Consortium® (DLC) Premium qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/ QPL to confirm which versions are qualified.

*Specifications, Warranty, and Qualifications can vary per item/SKU.
See technical data sheets (TDS) for specific information.

Dimensions (Inches)

Length	47.6"
Width	11.9"
Height	1.8"



DELPHI 2'x2'

CCT & POWER SELECTABLE BACK-LIT PANEL LIGHT

CCT & Power Selectable

Electrical

Power	20 W-30 W-40 W
Voltage	120-277 V
Power Factor	0.9

Lighting Performance

Lumens	2500 lm-3750 lm-5000 lm
Efficacy	140 lm/W
Color Temperature (CCT)	3500 K-4000 K-5000 K
Color Rendering (CRI)	80
Beam Angle	120°
Dimmable Lighting Control	Continuous Dimming to 10% or Below

Environment

Operating Temperature	-14 ºF ~ +133 ºF
Suitable Location	**DAMP**
Ingress Protection Rating (IP)	IP20

Lifespan

Average Life (Hours)	75,000
Warranty (Years)	**10**

Components

LED Light Source	BRIDGELUX 2835
Driver	XZ Power

Construction

Housing	Aluminum
Diffuser	PC (Frosted)
Base / Power Supply	Hard Wired
Finish	White

Application Areas

Ideal for retrofitting inefficient fixtures in malls, hospitals, airports, offices, lobbies and other residential and commercial Spaces.

Qualifications and Certifications

Qualified Part Number	**IK-BL22-40/30/20-354050-YLY**

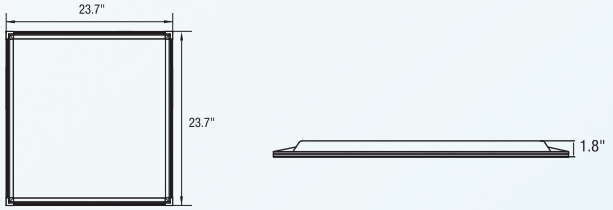
DLC LISTED · ETL US · RoHS 2002/95/EC

DesignLights Consortium® (DLC) Premium qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/ QPL to confirm which versions are qualified.

*Specifications, Warranty, and Qualifications can vary per item/SKU.
See technical data sheets (TDS) for specific information.

Dimensions (Inches)

Length	23.7"
Width	23.7"
Height	1.8"



DELPHI 2´x4´

CCT & POWER SELECTABLE BACK-LIT PANEL LIGHT

CCT & Power Selectable

Electrical

Power	30 W-40 W-50 W
Voltage	120-277 V
Power Factor	0.9

Lighting Performance

Lumens	4174 lm-5363 lm-6443 lm
Efficacy	140 lm/W
Color Temperature (CCT)	3500 K-4000 K-5000 K
Color Rendering (CRI)	84
Beam Angle	120°
Dimmable Lighting Control	Continuous Dimming to 10% or Below

Environment

Operating Temperature	-14 ºF ~ +133 ºF
Suitable Location	**DAMP**
Ingress Protection Rating (IP)	IP20

Lifespan

Average Life (Hours)	75,000
Warranty (Years)	**10**

Components

LED Light Source	Bridgelux
Driver	XZ Power

Construction

Housing	Aluminum
Diffuser	PC (Frosted)
Base / Power Supply	Hard Wired
Finish	White

Application Areas

Ideal for retrofitting inefficient fixtures in malls, hospitals, airports, offices, lobbies and other residential and commercial Spaces.

Qualifications and Certifications

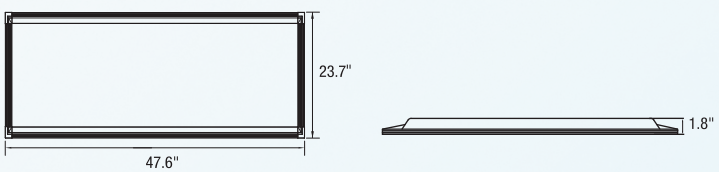
Qualified Part Number	**IK-BL24-50/40/30-354050-YLY**

DesignLights Consortium® (DLC) Premium qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/ QPL to confirm which versions are qualified.

*Specifications, Warranty, and Qualifications can vary per item/SKU. See technical data sheets (TDS) for specific information.

Dimensions (Inches)

Length	47.6"
Width	23.7"
Height	1.8"



Installation Instructions

Important Safeguards

PLEASE FIND A QUALIFIED ELECTRICIAN FOR INSTALLATION. Please read the instructions before you install and use the luminaire.
WARNING, CAUTIONS AND OPERATING INSTRUCTIONS

- To reduce the risk of death, personal injury or property damage from fire, electric shock, falling parts, cuts/abrasions, and other hazards, read all warnings and instructions included with and on the fixture box and all fixture labels.
- Before installing, servicing, or performing routine maintenance upon this equipment, follow these general precautions.
- Commercial installation, service and maintenance of luminaires should be performed by a qualified licensed electrician.
- For the installation: If you are unsure about the installation or maintenance of the luminaires, consult a qualified licensed electrician and check your local electrical code.
- To prevent wiring damage or abrasion, do not expose wiring to edges of sheet metal or other sharp objects.
- Do not make or alter any open holes in an enclosure of wiring or electrical components during kit installation.

WARNING: RISK OF FIRE OR ELECTRICAL SHOCK

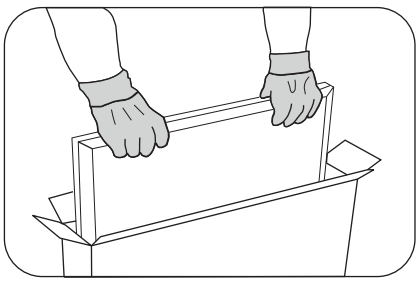
- Turn off electrical power at fuse or circuit breaker box before wiring fixture to the power supply.
- Turn off the power when you perform any maintenance.
- Verify that supply voltage is correct by comparing it with the luminaire label information.
- Make all electrical and grounded connections in accordance with the National Electrical Code and any applicable local code requirements.
- All wiring connections should be capped with UL approved wire connectors.

CAUTION: RISK OF INJURY

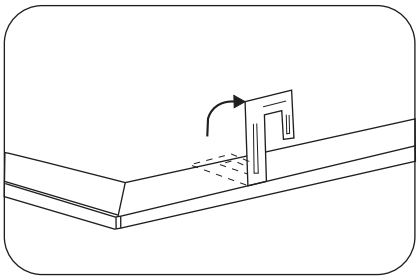
- Avoid direct eye exposure to the light source while it is on.
- Account for small parts and destroy packing material, as these may be hazardous to children.
- Do not relocate Green ground screw provided, is in the proper location.
- Minimum 90° supply connectors.
- Suitable for Dry or Damp locations, Type IC.

⚠ **WARNING:** TURN OFF POWER SUPPLY FROM MAIN CIRCUIT BREAKER BEFORE INSTALLING OR SERVICING.

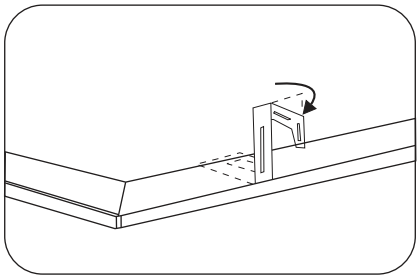
Recessed In Grid-ceiling Frame



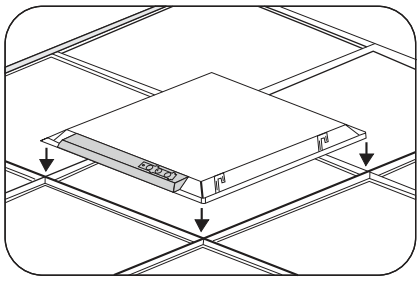
① Take the panel out of the box and protective bag. Remove the protective film



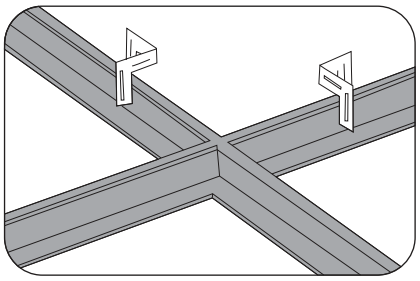
② Lift the mounting clip on the edge of panel.



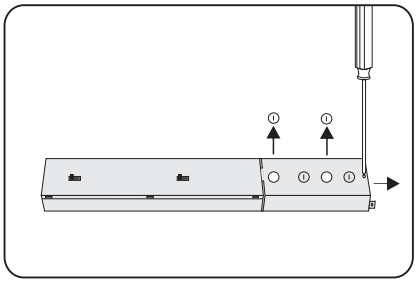
③ Turn the mounting clip head



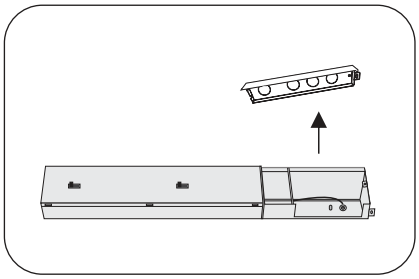
④ Put panel into grid ceiling.



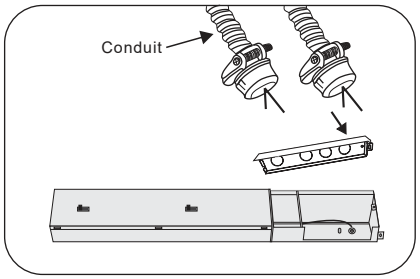
⑤ Check the clips well fasten to T-BARM (Main/Cross ceiling tee.)



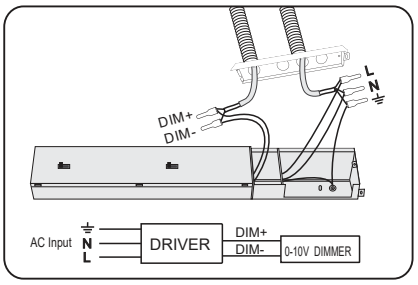
⑥ Remove the driver box Cover.



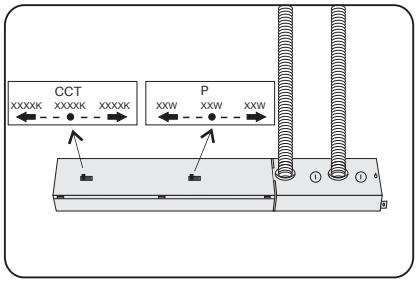
⑦ Open the knockout hole.



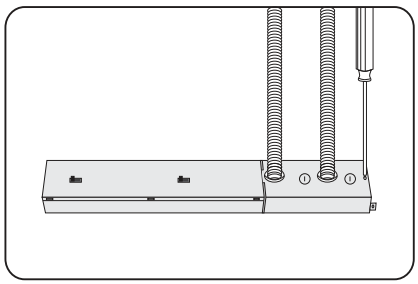
⑧ Insert the cable into driver box.



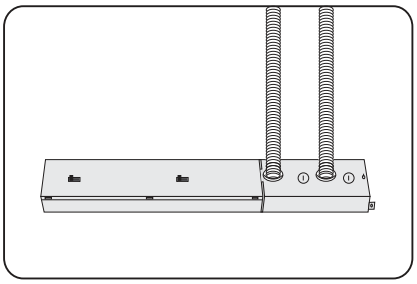
⑨ Please connect all cables with connectors one by one according to the wiring diagram. Please note that the wires passing through the entry holes need protective jackets, and pay attention to grounding.



⑩ Adjust the toggle switch, and customers can choose the wattage and color temperature of lamps on site according to their own needs.



⑪ Fix the driver cover back.



⑫ Complete.

CONTRILA 1´x4´

CCT & POWER SELECTABLE EDGE-LIT PANEL LIGHT

Electrical

Power	20 W-25 W-30 W-35 W
Voltage	100-277 V
Power Factor	≥ 0.90

Lighting Performance

Lumens	2500 lm-3125 lm-3750 lm-4375 lm
Efficacy	125 lm/W
Color Temperature (CCT)	3000 K-3500 K-4000 K-5000 K
Color Rendering (CRI)	80+
Beam Angle	120°
Dimmable Lighting Control	0-10 V, Range 10% - 100%

Environment

Operating Temperature	-14 ºF ~ +113 ºF
Suitable Location	**DAMP**
Ingress Protection Rating (IP)	IP40

Lifespan

Average Life (Hours)	50,000
Warranty (Years)	**5**

Components

LED Light Source	Epistar
Driver	Lifud

Construction

Housing	Aluminum+High Quality LGP
Base / Power Supply	Hard Wired
Finish	White

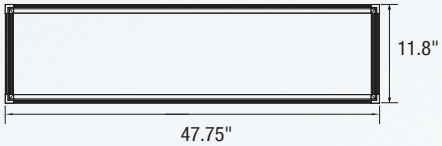
Application Areas

Malls, Hospitals, Airports, Offices, Lobbies, Residential Spaces, Commercial Spaces

*Specifications, Warranty, and Qualifications can vary per item/SKU.
See technical data sheets (TDS) for specific information.

Dimensions (Inches)

Length	47.75"
Width	11.8"



CONTRILA 2′x2′

CCT & POWER SELECTABLE EDGE-LIT PANEL LIGHT

Electrical

Power	20 W-30 W-36 W-40 W
Voltage	100-277 V
Power Factor	≥ 0.90

Lighting Performance

Lumens	2500 lm-3125 lm-3750 lm-4375 lm
Efficacy	125 lm/W
Color Temperature (CCT)	3000 K-3500 K-4000 K-5000 K
Color Rendering (CRI)	80+
Beam Angle	120°
Dimmable Lighting Control	0-10 V, Range 10% - 100%

Environment

Operating Temperature	-14 ºF ~ +113 ºF
Suitable Location	**DAMP**
Ingress Protection Rating (IP)	IP40

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Components

LED Light Source	Epistar
Driver	Lifud

Construction

Housing	Aluminum+High Quality LGP
Base / Power Supply	Hard Wired
Finish	White

Application Areas

Malls, Hospitals, Airports, Offices, Lobbies, Residential Spaces, Commercial Spaces

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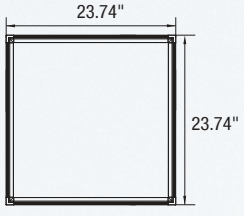
Dimensions (Inches)

Length	23.74"
Width	23.74"



CONTRILA 2´x4´

CCT & POWER SELECTABLE EDGE-LIT PANEL LIGHT

CCT & Power Selectable

Electrical

Power	35 W-40 W-45 W-50 W
Voltage	100-277 V
Power Factor	≥ 0.90

Lighting Performance

Lumens	4375 lm-5000 lm-5625 lm-6250 lm
Efficacy	125 lm/W
Color Temperature (CCT)	3000 K-3500 K-4000 K-5000 K
Color Rendering (CRI)	80+
Beam Angle	120°
Dimmable Lighting Control	0-10 V, Range 10% - 100%

Environment

Operating Temperature	-14 ºF ~ +113 ºF
Suitable Location	**DAMP**
Ingress Protection Rating (IP)	IP40

Lifespan

Average Life (Hours)	50,000
Warranty (Years)	**5**

Components

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Driver	Lifud

Construction

Housing	Aluminum+High Quality LGP
Base / Power Supply	Hard Wired
Finish	White

Application Areas

Malls, Hospitals, Airports, Offices, Lobbies, Residential Spaces, Commercial Spaces

*Specifications, Warranty, and Qualifications can vary per item/SKU.
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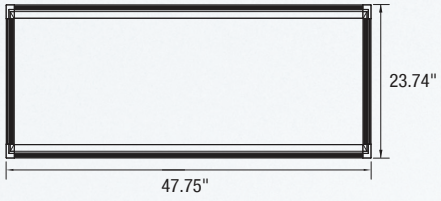
Dimensions (Inches)

Length	47.75"
Width	23.74"



Installation Instructions

Important Safeguards

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- For the installation: If you are unsure about the installation or maintenance of the luminaires, consult a qualified licensed electrician and check your local electrical code.
- To prevent wiring damage or abrasion, do not expose wiring to edges of sheet metal or other sharp objects.
- Do not make or alter any open holes in an enclosure of wiring or electrical components during kit installation.

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- Turn off the power when you perform any maintenance.
- Verify that supply voltage is correct by comparing it with the luminaire label information.
- Make all electrical and grounded connections in accordance with the National Electrical Code and any applicable local code requirements.
- All wiring connections should be capped with UL approved wire connectors.

CAUTION: RISK OF INJURY

- Avoid direct eye exposure to the light source while it is on.
- Account for small parts and destroy packing material, as these may be hazardous to children.
- Do not relocate Green ground screw provided, is in the proper location.
- Minimum 90° supply connectors.
- Suitable for Dry or Damp locations, Type IC.

⚠ **WARNING:** TURN OFF POWER SUPPLY FROM MAIN CIRCUIT BREAKER BEFORE INSTALLING OR SERVICING.

Recessed Mounting

1. Carefully unpack unit and properly inspect for defects before installing. Wear work gloves to prevent dirt and oil from being transferred to the luminaire. If cleaning is needed, use gloves and a dry cotton cloth. It is not recommended to use hazardous chemicals.
2. Open the cover of the junction box. (Fig. 1) Choose the knock hole in the junction box cover and open it.
3. Connect the power wire to the junction box. (Fig. 2) Use the line pressing board clamp on the power cord, then tighten the screw. Replace and secure the cover of the junction box using the screw.
4. Remove the ceiling plate, then arrange the wire. (Fig. 3)
5. Put LED panel light on the ceiling screens. (Fig. 4)
6. Check LED panel is mounted properly and securely. (Fig. 5)

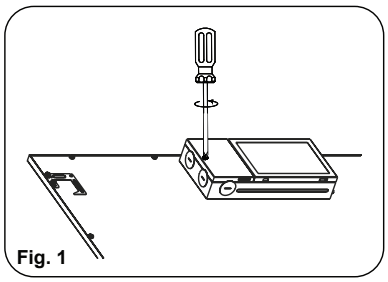


Fig. 1

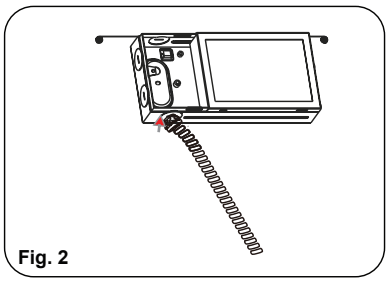


Fig. 2

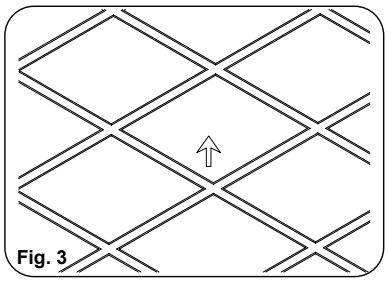


Fig. 3

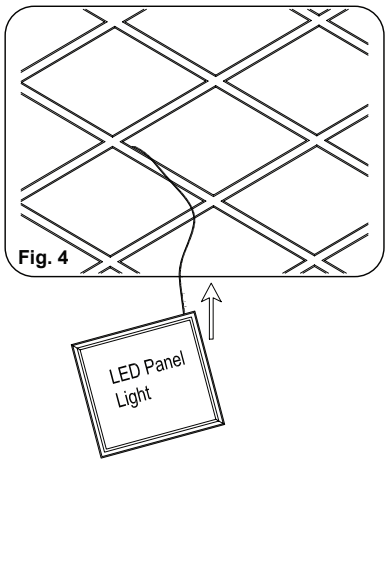


Fig. 4

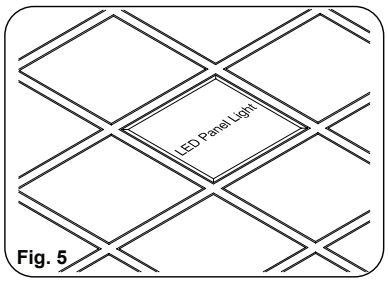
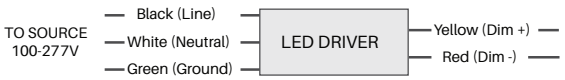


Fig. 5

General Wiring Diagram



Note: If using the handheld remote or wireless wall dimmer with the Spectra panel, they cannot be used directly as the only on-off switch it should be used together with the switch. The fixture needs to be turned off for the night with a standard hard-wired wall switch (or at the breaker panel).

Cable Suspended Mounting (Kit Sold Separately)

1. Replace the existing earthquake tabs with the provided brackets which are used for fixing adjustable cables. (Fig. 6)
2. Pull the end cap of cable A through the provided flange and make sure the end cap is positioned in the flange. Attach the flanges to the ceiling by the selftapping screws. (Fig. 7)
3. Insert the end of cable A into the hasp attachment on cable B then adjust cable A to the desired height and adjust cable B to the desired angle. (Fig. 7)
4. Hook the luminaire up to the hooks attached to the ends of cable B and make final adjustments. (Fig. 7)
5. Connect LED driver to AC main power. (Fig. 5)

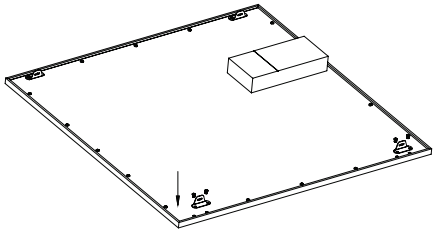


Fig. 6

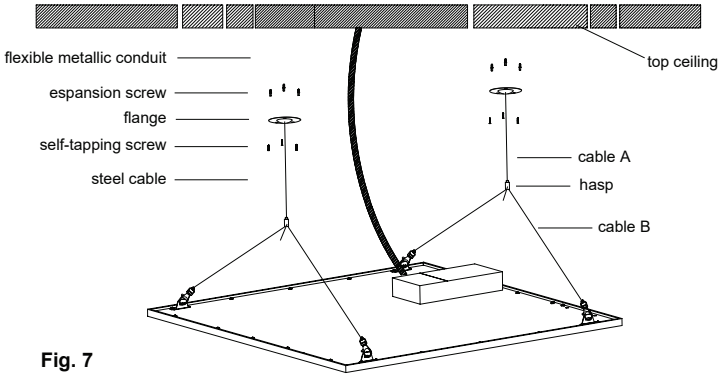


Fig. 7

Surface Mounting Kit (Kit Sold Separately)

1. Assemble the mounting frame with the screws and the connection plate. (Fig. 8)
2. Mount the frame on the ceiling with screws. (Fig. 9) Make sure that the wire is long enough for Step 4.
3. After mounting the frame onto ceiling, remove one side of the mounting frame. (Fig. 10)
4. Connect the wires from main to the LED driver, then slide in the LED panel unit into the frame. (Fig. 11)
5. Replace the side frame back on.

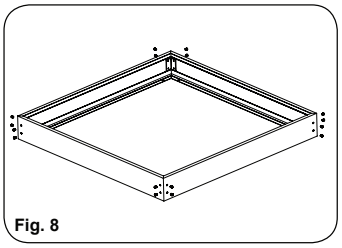


Fig. 8

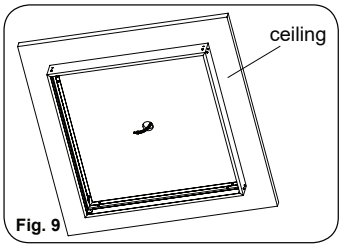


Fig. 9

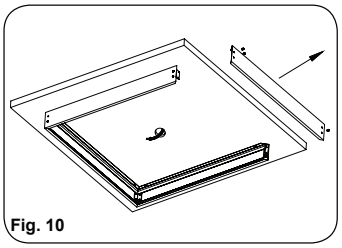


Fig. 10

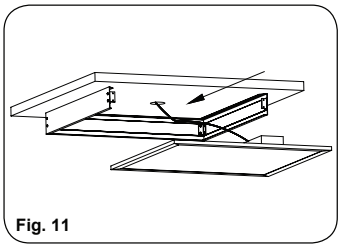
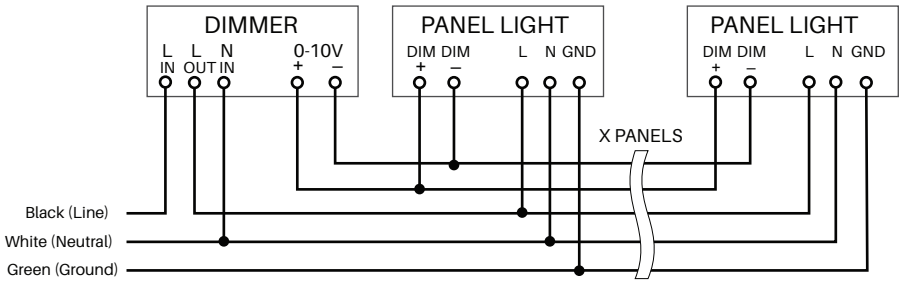


Fig. 11

Wiring Of Multiple Panels

1. Follow dimmer capacity guidelines; do not exceed dimmer wattage capacity.



COLORIS 1´x4´

RGBW EDGE-LIT PANEL LIGHT

Electrical

Power	36 W
Voltage	100-277 V
Power Factor	≥ 0.90

Lighting Performance

Lumens	4680 lm
Efficacy	130 lm/W
Color Temperature (CCT)	Red, Green, Blue, Cool White & Warm White
Color Rendering (CRI)	80+
Beam Angle	120°

Environment

Operating Temperature	-14 °F ~ +113 °F
Suitable Location	**DAMP**
Ingress Protection Rating (IP)	IP20

Lifespan

Average Life (Hours)	50,000
Warranty (Years)	**5**

Components

LED Light Source	Epistar
Driver	Yibo

Construction

Housing	Aluminum
Diffuser	PC (Frosted)
Base / Power Supply	Hard Wired
Finish	White

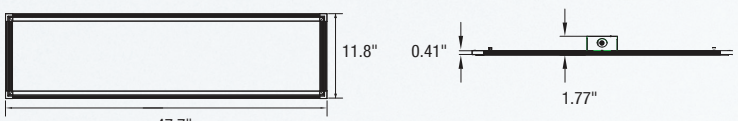
Application Areas

Malls, Hospitals, Airports, Offices, Lobbies, Residential Spaces, Commercial Spaces

*Specifications, Warranty, and Qualifications can vary per item/SKU.
See technical data sheets (TDS) for specific information.

Dimensions (Inches)

Length	47.7"
Width	11.8"
Height with Driver	1.77"
Height	0.41"



COLORIS 2´x2´

RGBW EDGE-LIT PANEL LIGHT

Electrical

Power	36 W
Voltage	100-277 V
Power Factor	≥ 0.90

Lighting Performance

Lumens	4680 lm
Efficacy	130 lm/W
Color Temperature (CCT)	Red, Green, Blue, Cool White & Warm White
Color Rendering (CRI)	80+
Beam Angle	120°

Environment

Operating Temperature	-14 ºF ~ +113 ºF
Suitable Location	**DAMP**
Ingress Protection Rating (IP)	IP20

Lifespan

Average Life (Hours)	50,000
Warranty (Years)	**5**

Components

LED Light Source	Epistar
Driver	Yibo

Construction

Housing	Aluminum
Diffuser	PC (Frosted)
Base / Power Supply	Hard Wired
Finish	White

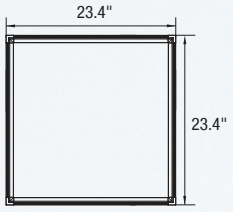
Application Areas

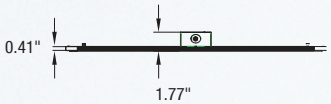
Malls, Hospitals, Airports, Offices, Lobbies, Residential Spaces, Commercial Spaces

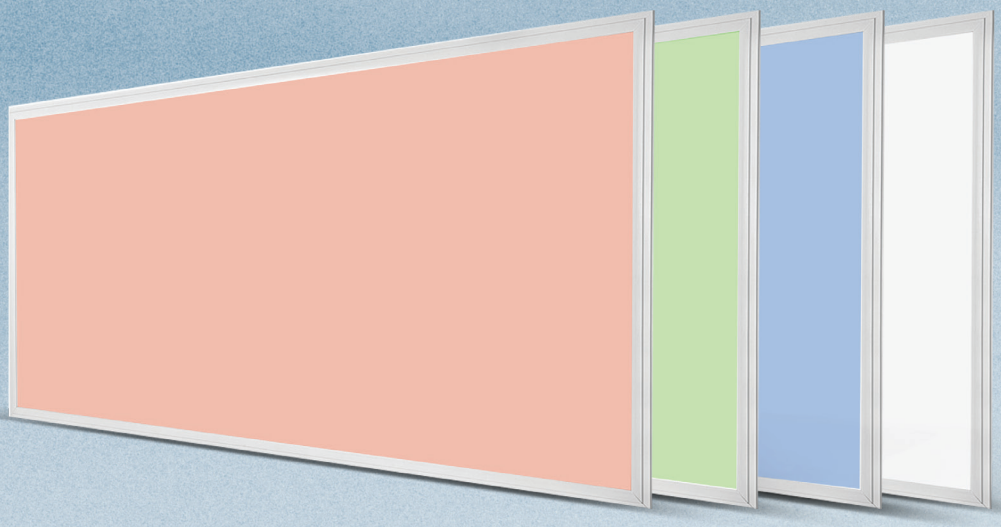
*Specifications, Warranty, and Qualifications can vary per item/SKU.
See technical data sheets (TDS) for specific information.

Dimensions (Inches)

Length	23.4"
Width	23.4"
Height with Driver	1.77"
Height	0.41"







COLORIS 2´x4´

RGBW EDGE-LIT PANEL LIGHT

Electrical

Power	60 W
Voltage	100-277 V
Power Factor	≥ 0.90

Lighting Performance

Lumens	7800 lm
Efficacy	130 lm/W
Color Temperature (CCT)	Red, Green, Blue, Cool White & Warm White
Color Rendering (CRI)	80+
Beam Angle	120°
Dimmable Lighting Control	0-10 V, Range 10% - 100%

Environment

Operating Temperature	-14 ºF ~ +113 ºF
Suitable Location	**DAMP**
Ingress Protection Rating (IP)	IP20

Lifespan

Average Life (Hours)	50,000
Warranty (Years)	**5**

Components

LED Light Source	Epistar
Driver	Yibo

Construction

Housing	Aluminum
Diffuser	PC (Frosted)
Base / Power Supply	Hard Wired
Finish	White

Application Areas

Malls, Hospitals, Airports, Offices, Lobbies, Residential Spaces, Commercial Spaces

*Specifications, Warranty, and Qualifications can vary per item/SKU.
See technical data sheets (TDS) for specific information.

Dimensions (Inches)

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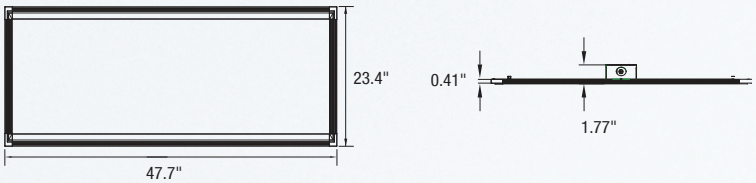


Installation Instructions

Important Safeguards

PLEASE FIND A QUALIFIED ELECTRICIAN FOR INSTALLATION. Please read the instructions before you install and use the luminaire.
WARNING, CAUTIONS AND OPERATING INSTRUCTIONS

- To reduce the risk of death, personal injury or property damage from fire, electric shock, falling parts, cuts/abrasions, and other hazards, read all warnings and instructions included with and on the fixture box and all fixture labels.
- Before installing, servicing, or performing routine maintenance upon this equipment, follow these general precautions.
- Commercial installation, service and maintenance of luminaires should be performed by a qualified licensed electrician.
- For the installation: If you are unsure about the installation or maintenance of the luminaires, consult a qualified licensed electrician and check your local electrical code.
- To prevent wiring damage or abrasion, do not expose wiring to edges of sheet metal or other sharp objects.
- Do not make or alter any open holes in an enclosure of wiring or electrical components during kit installation.

WARNING: RISK OF FIRE OR ELECTRICAL SHOCK

- Turn off electrical power at fuse or circuit breaker box before wiring fixture to the power supply.
- Turn off the power when you perform any maintenance.
- Verify that supply voltage is correct by comparing it with the luminaire label information.
- Make all electrical and grounded connections in accordance with the National Electrical Code and any applicable local code requirements.
- All wiring connections should be capped with UL approved wire connectors.

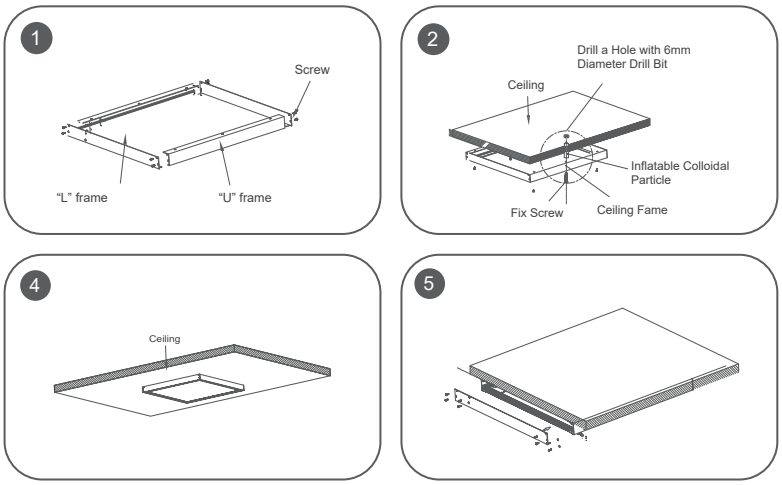
CAUTION: RISK OF INJURY

- Avoid direct eye exposure to the light source while it is on.
- Account for small parts and destroy packing material, as these may be hazardous to children.
- Do not relocate Green ground screw provided, it is in the proper location.
- Minimum 90° supply connectors.
- Suitable for Dry or Damp locations, Type IC.

⚠ **WARNING:** TURN OFF POWER SUPPLY FROM MAIN CIRCUIT BREAKER BEFORE INSTALLING OR SERVICING.

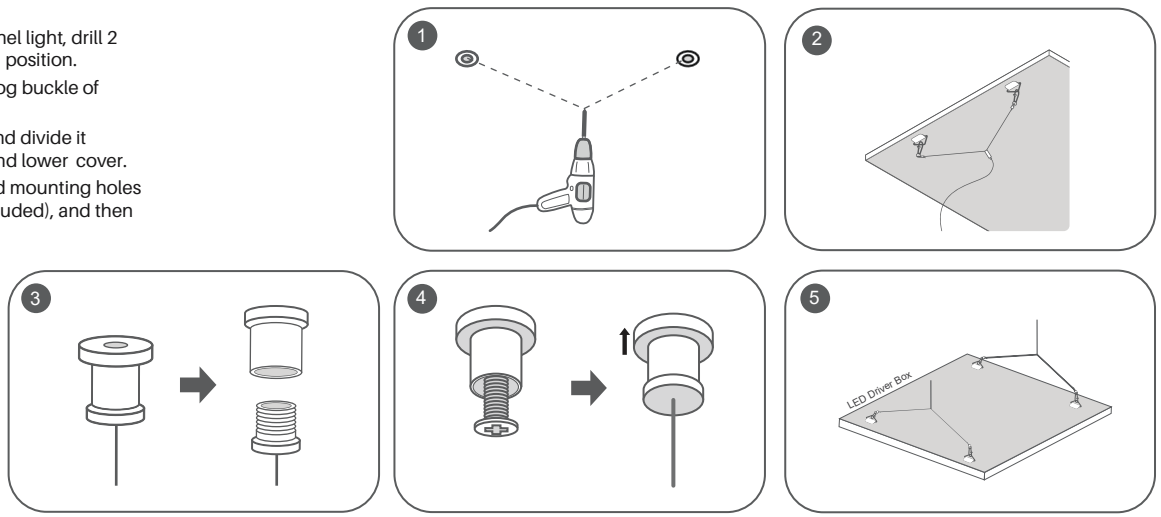
Surface Mount

1. Assemble the frame well Surface Mount
2. Fix the frame on ceiling
3. Take out one "L" bracket from the frame
4. Insert LED panel to the frame
5. Fix "L" bracket to the frame
6. Installation is Complete



Suspended

1. According to the width of the panel light, drill 2 mounting holes on the mounting position.
2. Button the panel light with the dog buckle of the equipped rope.
3. Twist off the rope grab device, and divide it into two parts: the upper cover and lower cover.
4. Fix the upper cover into prepared mounting holes with self-tapping screws (not included), and then twist on the lower cover.
5. Connect LED panel light by the hook of suspension wire.



Notes

Notes

LED

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