Edge Dimmable Slimline
LED Flat Panels
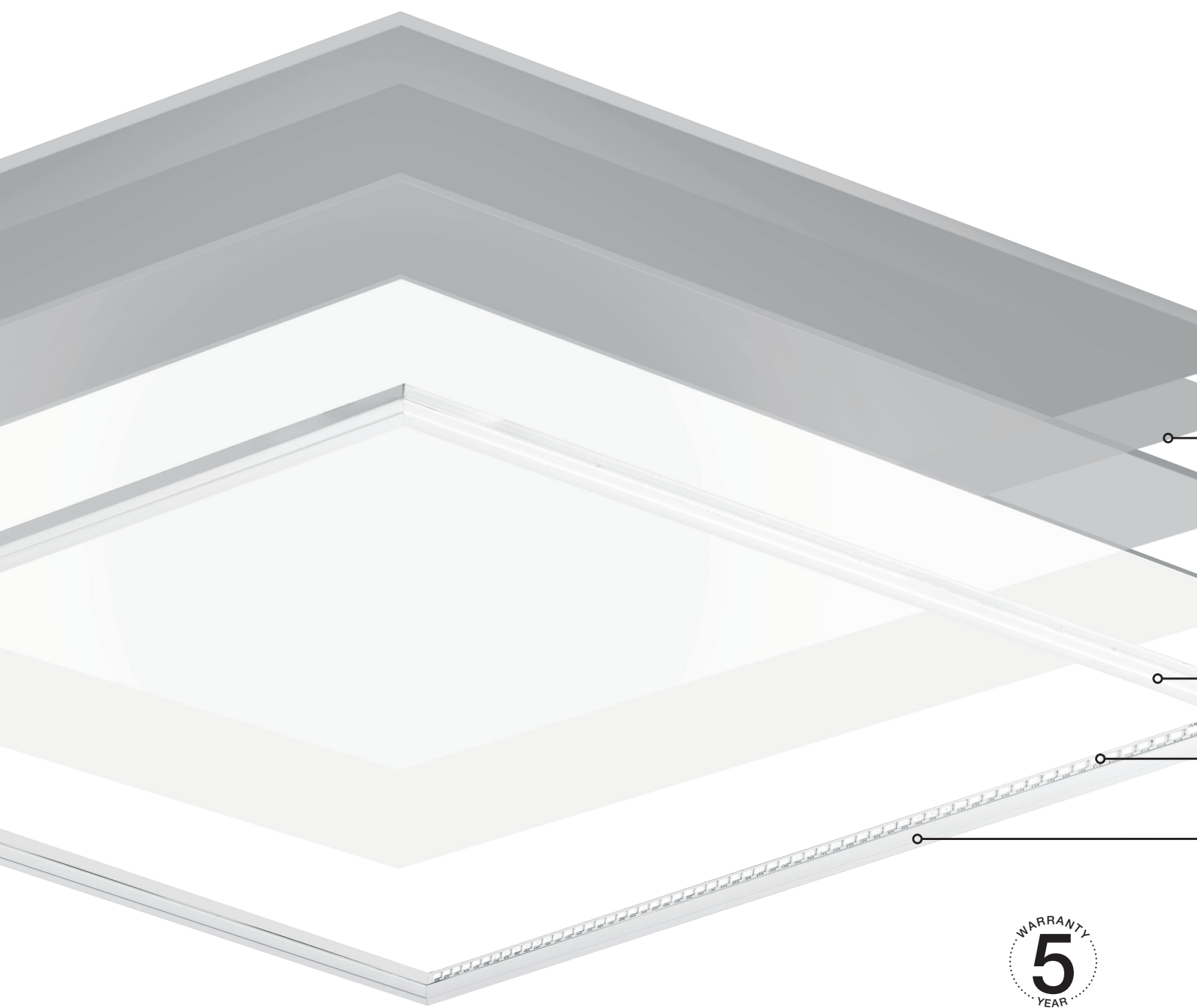
RP-1-12
"American National Standard"

Developed for screen based work environments helping achieve ANSI/IES RP-1-12 "American National Standard Practice for Office Lighting"

WARRANTY
5
YEAR

Advanced LED Flat Panel range delivering maximum brightness with minimal glare

Aluminum Heatsink
Large surface area for rapid heat dissipation

Reflector Film
0.15mm on the back of the light guide

Light Guide
Unique ALL-LED optical pattern for improved uniformity

High Transmission Diffuser
Excellent glare control - UGR19   PMMA will not discolor

Ultra Slim Aluminum Frame
Sleek, lightweight design

High Output Dimmable LEDs
Provides superior lighting performance

Damp Location
Front of panel is Damp Location

UGR - Unified Glare Rating

The UGR method (Unified Glare Rating) is an international index which is used to evaluate and limit the psychological direct glare from luminaires.

Contrary to previous methods where the glare was rated using the luminance values of a single luminaire, this method calculates the glare of the entire lighting installation at a defined observer position.

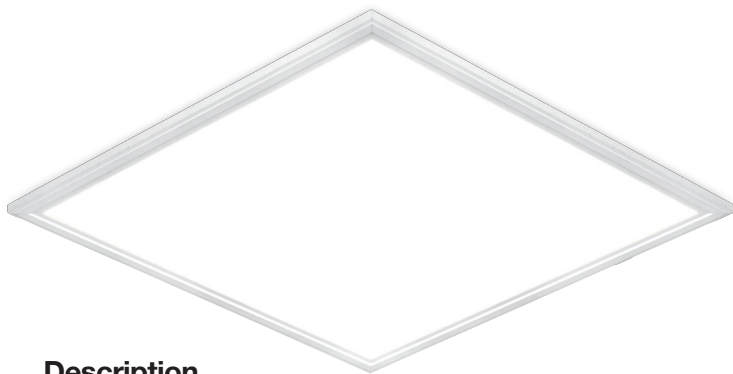According to BS EN 12464, the UGR (Unified Glare Rating) reference value is provided for a standard room.

Maximum UGR in offices - UGR19
ALL-LED Flat Panels can be used in lighting schemes to achieve UGR19.

Examples:
UGR<10% glare so insignificant it can be ignored, UGR>30% very high glare.
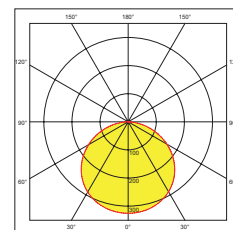
2' x 2' Recessed, Surface & Suspended

Features

- A range of high energy-efficiency edge-lit LED flat panels for office and commercial lighting applications
- Suitable for installation in T-bar suspended ceilings. Optional drywall, surface mount or suspension kit accessories are available
- Easy installation & maintenance free
- PMMA light guide material and PS diffuser, for even light distribution with 120° beam angle.
- PMMA will not discolor.
- Ultra-thin white profile frame – depth just 0.39"
- Total depth including the driver box 1.96"
- CRI>80
- High power factor - 0.90
- ALL-LED'S dimmable panels provide a simple 0-10V solution that is compatible with stand alone 0-10V dimmers as well as larger lighting control systems and allows for installation with daylight or occupancy sensors
- **Compatible with Lutron 0-10V Dimmers**
- Operating temperature -4°F to 104°F
- Available color temperatures 3500K, 4000K, 5000K
- Suitable for damp locations
- DLC (DesignLights Consortium®) certified
- (L70) at **50,000 hour lifetime**
- **5 Year warranty**

Description

The ALL-LED Generation 4 ultra-thin LED panels feature high efficiency, quality and performance. These luminaires are designed with edge-lit technology to produce highly efficient lighting, which provides pleasant and uniform light distribution with no glare. The luminaires have a clean, modern look and the ultra-thin profile makes them unique and an ideal solution for either drop ceilings or suspended in offices, schools, hospitality and other commercial applications. Their high CRI is ideal for retail stores and showrooms where natural color rendering is essential.

The ALL-LED edge-lit flat panels offer lower power consumption, longer life, dimming option and lower overall maintenance (no re-lamping required) are therefore an excellent energy efficient replacement. Compatible with most 0-10V dimmers.

IES files available on the ALL-LED USA website.

Compliance & Approvals

FOR MOUNTING AND SUSPENSION ACCESSORIES SEE PAGE 8

0-10V FULLY DIMMABLE

EMERGENCY PACK

2'x 2' Versitile

Type	Dimmable	Voltage	Watts	Lumens	Lumens/W	Color Temp	Life (hrs)	W x L x H	lbs
DLC Premium									
AL-LP122Q20D/35*·**	0-10V Dimmable	100-277V AC	20W	2500lm	125	3500K	50,000	23.7 x 23.7 x 1.96"	7.7
AL-LP122Q20D/40*·**	0-10V Dimmable	100-277V AC	20W	2500lm	125	4000K	50,000	23.7 x 23.7 x 1.96"	7.7
AL-LP122Q20D/50*·**	0-10V Dimmable	100-277V AC	20W	2500lm	125	5000K	50,000	23.7 x 23.7 x 1.96"	7.7
AL-LP122Q3DD/35*·**	0-10V Dimmable	100 - 277V AC	30W	3750lm	125	3500K	50,000	23.7 x 23.7 x 1.96"	7.7
AL-LP122Q3DD/40*·**	0-10V Dimmable	100 - 277V AC	30W	3750lm	125	4000K	50,000	23.7 x 23.7 x 1.96"	7.7
AL-LP122Q3DD/50*·**	0-10V Dimmable	100 - 277V AC	30W	3750lm	125	5000K	50,000	23.7 x 23.7 x 1.96"	7.7
AL-LP122Q4DD/35*·**	0-10V Dimmable	100 - 277V AC	40W	5000lm	125	3500K	50,000	23.7 x 23.7 x 1.96"	7.7
AL-LP122Q4DD/40*·**	0-10V Dimmable	100 - 277V AC	40W	5000lm	125	4000K	50,000	23.7 x 23.7 x 1.96"	7.7
AL-LP122Q4DD/50*·**	0-10V Dimmable	100 - 277V AC	40W	5000lm	125	5000K	50,000	23.7 x 23.7 x 1.96"	7.7

* ADD SUFFIX **EM** TO SKU CODE FOR EMERGENCY PACK OPTION, FACTORY INSTALLED - 90 MINUTE OPERATION @ 25% OUTPUT
** FIELD INSTALLED **EM** KIT ALSO AVAILABLE, AL-LPEMKT24

Recessed, Drywall, Surface Mounted, Suspended & Emergency Versions

Compliance & Approvals

2'x 4' Versitile
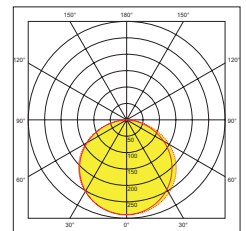
FOR MOUNTING AND SUSPENSION ACCESSORIES SEE PAGE 8

0-10V FULLY DIMMABLE

EMERGENCY PACK

DIMMABLE	Type	Voltage	Watts	Lumens	Lumens/W	Color Temp	Life (hrs)	W x L x H	lbs
DLC Premium									
AL-LP124Q30D/35*-**	0-10V Dimmable	100 - 277V AC	40W	3750lm	125	3500K	50,000	23.7 x 47.63 x 1.96"	14.45
AL-LP124Q30D/40*-**	0-10V Dimmable	100 - 277V AC	40W	3750lm	125	4000K	50,000	23.7 x 47.63 x 1.96"	14.45
AL-LP124Q30D/50*-**	0-10V Dimmable	100 - 277V AC	40W	3750lm	125	5000K	50,000	23.7 x 47.63 x 1.96"	14.45
AL-LP124Q4DD/35*-**	0-10V Dimmable	100 - 277V AC	40W	5000lm	125	3500K	50,000	23.7 x 47.63 x 1.96"	14.45
AL-LP124Q4DD/40*-**	0-10V Dimmable	100 - 277V AC	40W	5000lm	125	4000K	50,000	23.7 x 47.63 x 1.96"	14.45
AL-LP124Q4DD/50*-**	0-10V Dimmable	100 - 277V AC	40W	5000lm	125	5000K	50,000	23.7 x 47.63 x 1.96"	14.45
AL-LP124Q5DD/35*-**	0-10V Dimmable	100 - 277V AC	50W	6250lm	125	3500K	50,000	23.7 x 47.63 x 1.96"	14.45
AL-LP124Q5DD/40*-**	0-10V Dimmable	100 - 277V AC	50W	6250lm	125	4000K	50,000	23.7 x 47.63 x 1.96"	14.45
AL-LP124Q5DD/50*-**	0-10V Dimmable	100 - 277V AC	50W	6250lm	125	5000K	50,000	23.7 x 47.63 x 1.96"	14.45

* ADD SUFFIX EM TO SKU CODE FOR EMERGENCY PACK OPTION, FACTORY INSTALLED - 90 MINUTE OPERATION @ 25% OUTPUT
** FIELD INSTALLED EM KIT ALSO AVAILABLE, AL-LPEMKT24
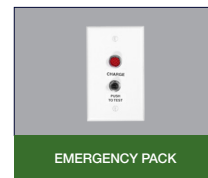
1' x 4' Recessed, Surface & Suspended

WARRANTY 5 YEAR

DLC QPL PREMIUM LISTED

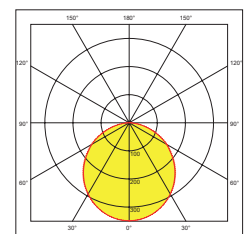# Recessed, Drywall, Surface Mounted, Suspended & Emergency Versions

Features

- A range of high energy-efficiency edge-lit LED flat panels for office and commercial lighting applications
- Suitable for installation in T-bar suspended ceilings. Optional drywall, surface mount or suspension kit accessories are available
- Easy installation & maintenance free
- PMMA light guide material and PS diffuser, for even light distribution with 120° beam angle
- PMMA will not discolor
- Ultra-thin white profile frame – depth just 0.39"
- Total depth including the driver box 1.96"
- CRI>80
- High power factor - 0.90
- ALL-LED'S dimmable panels provide a simple 0-10V solution that is compatible with stand alone 0-10V dimmers as well as larger lighting control systems and allows for installation with daylight or occupancy sensors
- **Compatible with Lutron 0-10V Dimmers**
- Operating temperature -4°F to 104°F
- Available color temperatures 3500K, 4000K, 5000K
- Suitable for damp locations
- DLC (DesignLights Consortium®) certified
- (L70) at **50,000 hour lifetime**
- **5 Year warranty**

Compliance & Approvals

c(UL)us LISTED

DLC QPL PREMIUM LISTED

FC

LED lighting facts LED Product Partner

DAMP LOCATIONS

CRI 80

FOR MOUNTING AND SUSPENSION ACCESSORIES SEE PAGE 8

0-10V FULLY DIMMABLE

EMERGENCY PACK

1'x 4' Versitile

DIMMABLE	Type	Voltage	Watts	Lumens	Lumens/W	Color Temp	Life (hrs)	W x L x H	lbs
DLC Premium									
AL-LP114Q4DD/35*	0-10V Dimmable	100 - 277V AC	40W	5000lm	125	3500K	50,000	11.83 x 47.63 x 1.96"	8.25
AL-LP114Q4DD/40*	0-10V Dimmable	100 - 277V AC	40W	5000lm	125	4000K	50,000	11.83 x 47.63 x 1.96"	8.25
AL-LP114Q4DD/50*	0-10V Dimmable	100 - 277V AC	40W	5000lm	125	5000K	50,000	11.83 x 47.63 x 1.96"	8.25

* ADD SUFFIX **EM** TO SKU CODE FOR EMERGENCY PACK OPTION - 90 MINUTE OPERATION @ 25% OUTPUT
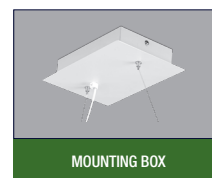
WARRANTY 5 YEAR

DLC QPL LISTED™

40% Up, 60% Down Suspended LED Panel

Features

- A range of high energy-efficiency edge-lit LED flat panels for office and commercial lighting applications
- Suspension kit supplied as standard with the panel
- PMMA light guide and PS diffuser, for even light 60% functional light and 40% uplighting to create overall feeling of space and light
- PMMA will not discolor
- White profile frame – depth just 1.18"
- Adjustable length of suspension allowing a drop of around 47" as standard and positioning of suspension wire along the length of the panel allows for minor adjustments
- CRI>80
- High power factor - 0.90
- ALL-LED'S dimmable panels provide a simple 0-10V solution that is compatible with stand alone 0-10V dimmers as well as larger lighting control systems and allows for installation with daylight or occupancy sensors
- Compatible with Lutron 0-10V Dimmers
- Operating temperature -4°F to 104°F
- Suitable for damp locations
- Available color temperatures 3500K, 4000K, 5000K
- DLC (DesignLights Consortium®) certified
- (L70) at **50,000 hour lifetime**
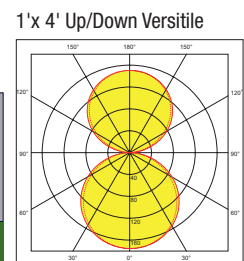- **5 Year warranty**

40% UPLIGHT

60% DOWNLIGHT

Compliance & Approvals

c UL us LISTED · DLC QPL LISTED™ PREMIUM · FC

LED lighting facts LED Product Partner · DAMP LOCATIONS · CRI 80

MOUNTING BOX

0-10V FULLY DIMMABLE

1'x 4' Up/Down Versitile

DIMMABLE	Type	Voltage	Watts	Lumens	Lumens/W	Color Temp	Life (hrs)	W x L x H	lbs
DLC									
AR-LPUD1436/35*	0-10V Dimmable	100 - 277V AC	36W	3780lm	105	3500K	50,000	11.59 x 46.96 x 0.9"	7.37
AR-LPUD1436/40*	0-10V Dimmable	100 - 277V AC	36W	3780lm	105	4000K	50,000	11.59 x 46.96 x 0.9"	7.37
AR-LPUD1436/50*	0-10V Dimmable	100 - 277V AC	36W	3780lm	105	5000K	50,000	11.59 x 46.96 x 0.9"	7.37

* ADD SUFFIX **EM** TO SKU CODE FOR EMERGENCY PACK OPTION - 90 MINUTE OPERATION @ 25% OUTPUT

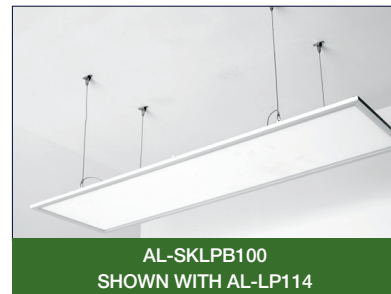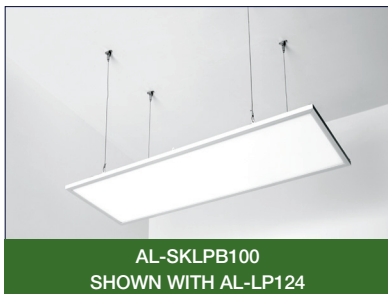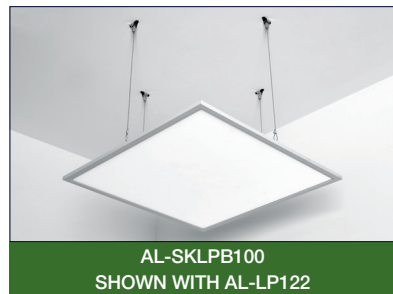# LED Flat Panel Accessories

Description

ALL-LED'S flat panel mounting accessories provide additional versatility for our flat panel range when installed in locations other than suspended ceilings.

The suspension kit allows for panels to be suspended for a more architectural look.

The drywall and surface mount kits are designed to allow ultra-thin LED Panels to be installed in sheet rock / concrete ceiling applications. These accessories provide an ideal mounting solution in offices, schools, hospitality and other commercial applications.
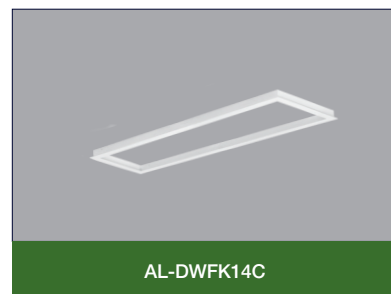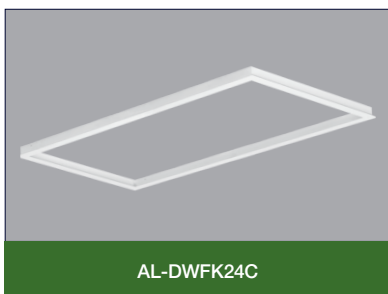
Suspension Kit Includes
4 x 6.5ft steel cables, cable grippers and fixing screws | Adjustable up to 6.5ft in length

AL-SKLPB100
SHOWN WITH AL-LP122

AL-SKLPB100
SHOWN WITH AL-LP124

AL-SKLPB100
SHOWN WITH AL-LP114

Dry Wall Flange Kit
Pre-assembled kit, fixing screws included

AL-DWFK22C

AL-DWFK24C

AL-DWFK14C

Surface Mount Kit Includes
8 x pattress connection screws for assembly | 6 or 10 ceiling mounting screws depending on size ordered | 4 x pattress sides for assembly onsite

AL-SMKLP122C

AL-SMKLP124C
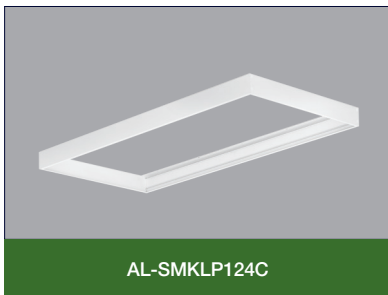
AL-SMKLP114C

Cat. No.	Description	W x L x H	L x Cable Ø
AL-SKLPB100	Suspension Kit - flat panels	-	6.5ft (L) - Cable (Ø) 0.06''
AL-DWFK14C	1' x 4' Panel Flange Kit	13.6 x 49.4 x 1.22"	-
AL-DWFK22C	2' x 2' Panel Flange Kit	25.47 x 25.47 x 1.22"	-
AL-DWFK24C	2' x 4' Panel Flange Kit	25.47 x 49.4 x 1.22"	-
AL-SMKLP114C	1' x 4' Panel Contractor Mount Kit	12.07 x 47.79 x 2.91"	-
AL-SMKLP122C	2' x 2' Panel Contractor Mount Kit	23.89 x 23.89 x 2.91"	-
AL-SMKLP124C	2' x 4' Panel Contractor Mount Kit	23.86 x 47.79 x 2.91"	-

Emergency Panel Solutions

A full range of slimline edge-lit LED flat panels providing flexibility of sizes, wattages, mounting options, as well as an emergency capability.

EMERGENCY PANEL

Product Description

ALL-LED Generation 2 Edge-lit LED Flat Panels are now available with an emergency LED battery pack that provides minimum 90 minutes of operation at approximately 25% output, backup in the event of a power failure. The emergency option is available in both dimmable and non-dimmable versions for 1' x 4', 2' x 2' and 2' x 4' panels.

Product Features

• Provides adequate backup lighting in the event of an emergency
• Minimum 90 minute operation after a power outage
• Meets or exceeds all National Electric Code and Life Safety Code Emergency Lighting Requirement

Product Specs

• Operating Temp 32° - 122° F
• 24 hour re-charge cycle

CHARGE

PUSH TO TEST

Suitable for installation in grid ceilings in new construction and retrofit installations
May also be drywall, surface mounted or suspended
Emergency option available
Ideal for use with daylight sensors to adjust to change in light levels and space requirements

3500K   4000K   5000K

Lighting Squares

AL-LP122Q2DD/40
20W • 2ft x 2ft • 2500lm • 27Fc

Luminaire Qty	1	2	3	4	5	4	6	6	8	6	9	9	12	15	20
Room Dimensions	8ft x 8ft	8ft x 16ft	8ft x 24ft	8ft x 32ft	8ft x 40ft	16ft x 16ft	16ft x 24ft	16ft x 32ft	16ft x 40ft	24ft x 24ft	24ft x 32ft	24ft x 40ft	32ft x 32ft	32ft x 40ft	40ft x 40ft

30W • 2ft x 2ft • 3750lm • 46Fc

Luminaire Qty	2	3	5	5	7	6	8	10	12	9	12	15	16	24	25
Room Dimensions	8ft x 8ft	8ft x 16ft	8ft x 24ft	8ft x 32ft	8ft x 40ft	16ft x 16ft	16ft x 24ft	16ft x 32ft	16ft x 40ft	24ft x 24ft	24ft x 32ft	24ft x 40ft	32ft x 32ft	32ft x 40ft	40ft x 40ft

AL-LP124Q3DD/40
30W • 2ft x 4ft • 3750lm • 27Fc

Luminaire Qty	1	2	2	3	3	4	4	6	6	6	9	9	9	12	12
Room Dimensions	8ft x 8ft	8ft x 16ft	8ft x 24ft	8ft x 32ft	8ft x 40ft	16ft x 16ft	16ft x 24ft	16ft x 32ft	16ft x 40ft	24ft x 24ft	24ft x 32ft	24ft x 40ft	32ft x 32ft	32ft x 40ft	40ft x 40ft

40W • 2ft x 4ft • 5000lm • 46Fc

| Luminaire Qty	1	3	3	4	5	4	6	8	8	9	12	12	12	15	20
Room Dimensions	8ft x 8ft	8ft x 16ft	8ft x 24ft	8ft x 32ft	8ft x 40ft	16ft x 16ft	16ft x 24ft	16ft x 32ft	16ft x 40ft	24ft x 24ft	24ft x 32ft	24ft x 40ft	32ft x 32ft	32ft x 40ft	40ft x 40ft

Design Criteria

- The lighting calculation information displayed above is indicative for the areas and design criteria indicated
- It is recommended that the customer carries out his own calculations to verify that the estimated quantity using this grid system does in fact provide compliance with the project specification

- All quantities shown are calculated and rounded upwards and then determined into an amount that offers a suggested grid pattern for intended installation
- ALL-LED will not accept responsibility for lighting installations which fail to comply with specification, where the above grid system has been solely used to estimate quantity

1 Fc (FootCandle) = 10.764 Lux -
For above calculations - 27Fc = 291Lux / 46Fc = 495 Lux
All dimensions are in Feet.
Ceiling Height is assumed @ 10ft
Reflectances are assumed @ Ceiling = 70 / Walls = 50 / Floor = 20
Maintenance Factor assumed @ 0.85
Working Plane assumed @ 2.50ft

Lighting Design Comparison - Results

Linear Fluorescent	LED Alternative		Linear Fluorescent	LED Alternative
- Recessed 2ft x 2ft module fitting - 2 x 32W T8 bi-pin "U" tube fluorescent lamp - Switch start electromagnetic control gear & glow starter - Assumed circuit watts @ 68W - Mean lamp lumens @ 2900 lumens x 3 lamps 8700 lamp lumens	- ALL-LED 2ft x 2ft recessed LED flat panel - Circuit power Consumption @ 20W - Lumens = 2500 luminaire lumens	**Area - 40ft x 40ft** **Ceiling height - 10ft** **Working plane – 2.50ft**	- Recessed 2ft x 4ft module fitting - 3 x 32W T8 bi-pin Linear Fluorescent Lamp - Switch start electromagnetic control gear & glow starter - Assumed circuit watts @ 101W - Mean lamp lumens @ 2900 Lumens x 3 lamps 8700 Lamp Lumens	- ALL-LED 2ft x 4ft recessed LED flat panel - Circuit power consumption @ 30W - Lumens = 3750 luminaire lumens
25	25	**Luminaire Quantity**	20	20
68W	20W	**Power Consumption**	101W	30W
1700W	500W	**Total Power Consumption**	2020W	600W
35Fc	35Fc	**Lighting Level**	45Fc	45Fc
2ft x 2ft Energy Saving = 1200W = 71%			**2ft x 4ft Energy Saving = 1420W = 70%**	

Linear Fluorescent vs LED Flat Panel
Next Generation - LED Panels with 120° beam coverage could reduce fixture count by up to 20% based on area configuration.

Recessed Linear Fluorescent Module

Recessed LED Flat Panel – AR-LP124P4DD/40
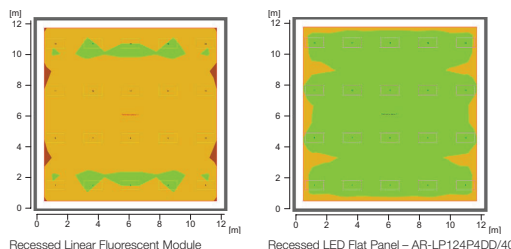
USA Sales

ALL-LED USA LLC 12035 34th St N, Suite 2,
St Petersburg, FL 33716
Tel: 727 524 4270, **Fax**: 727 290 3914
Email: sales@all-ledusa.com

Warranty:

For full warranty information please visit:
Website: www.all-ledusa.com

V.01: 2019