

iBright™ 2X2

ECO Panel

DLC Model:

FPUS22L3400002

FPUS22L3500002

Product Description

iBright™ ECO Panel is a well-designed, lay-in ceiling troffer fixture widely used in offices, hospitals, and other professional locales.

iBright™ ECO Panel has an outstanding luminous efficacy of 90lm/W achieved by utilizing ultra-bright SMD LEDs in tandem with Japanese-design reflective materials.

Thanks to its good heatsink design, iBright™ ECO Panel has unbelievable low In-situ temperature 36 °C. Calculated L70 lifetime is 94,000h.

Performance Summary

Input: 40W, 100~277VAC, 0.34A

Luminous efficacy: Typ. 90 lm/W

Lumens: 3600 lm

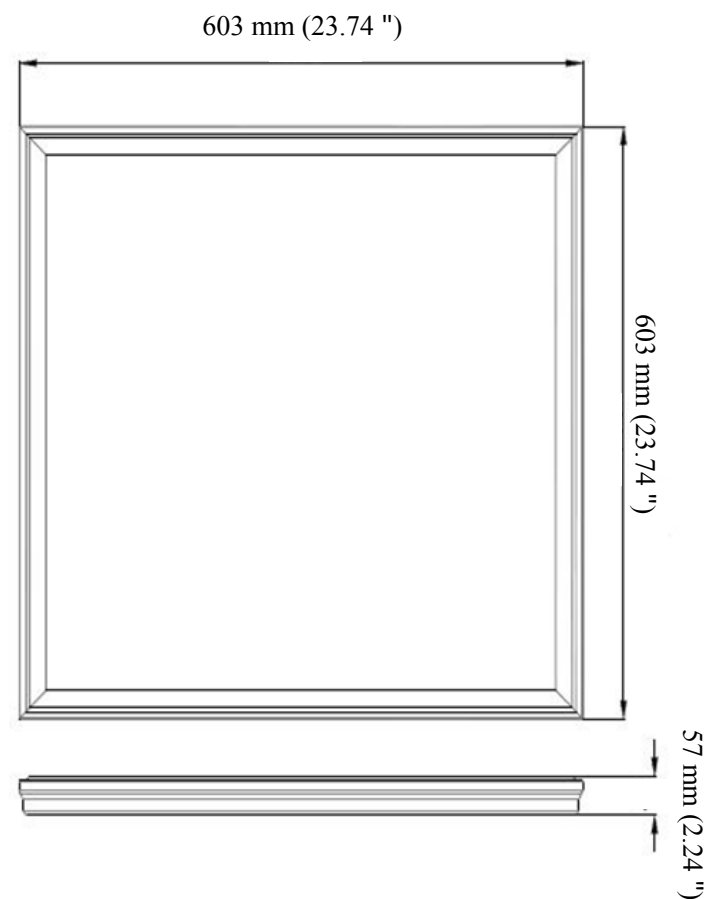
CCT: 4000K & 5000 K

Color Accuracy: CRI> 80, R9>10

L70 lifetime: 94,000h

PF>0.95, THD<10%

Spacing Criteria: C0/180: 1.25; C90/270: 1.25



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Ordering Information

Typical Order Example: FPUS22L3400002

SERIES	STANDARD	SIZE	VOLTAGE	CCT	OPTION A	OPTION B
FP=Flat Panel	US=US Size EU=EU Size	22=2x2ft	L3=36VDC	40=4000K 50=5000K	00=Default	02=ECO Panel

Product Specifications

CONSTRUCTION & MATERIALS	
Dimension	603*603 mm (23.74*23.74 inch)
Housing	Cold rolled steel sheet and PC diffuser
Finish Color	Matt White
Lens Type	Frosted

ENVIRONMENTAL SYSTEM	
Work Environment	Indoor use (applicable for dry environments)
Operating Temperature	-20°C~50°C (-4~122°F)

OPTICAL SYSTEM	
Luminous Flux	3600 lm
Luminous Efficacy	90 lm/w
Color Temperature	4000K & 5000 K
CRI	80+
Spacing Criteria	C0/180: 1.25; C90/270: 1.25
Lumen maintenance at 6000h	98.28%
Dimming	0-10V dimming

ELECTRICAL SYSTEM	
Input Voltage/Current	100~277VAC /0.34A
Off State Power	0W
Power Consumption	40 W
Power Factor	>0.95
THD	<10%

REGULATORY & VOLUNTARY QUALIFICATIONS	
Design Lights Consortium	
Lighting Facts, LM79, LM80	
ETL & cETL Listed (ETL No.: 4003329)	
CE, RoHS	
UL/cUL, KEMA, and CE certified external driver	

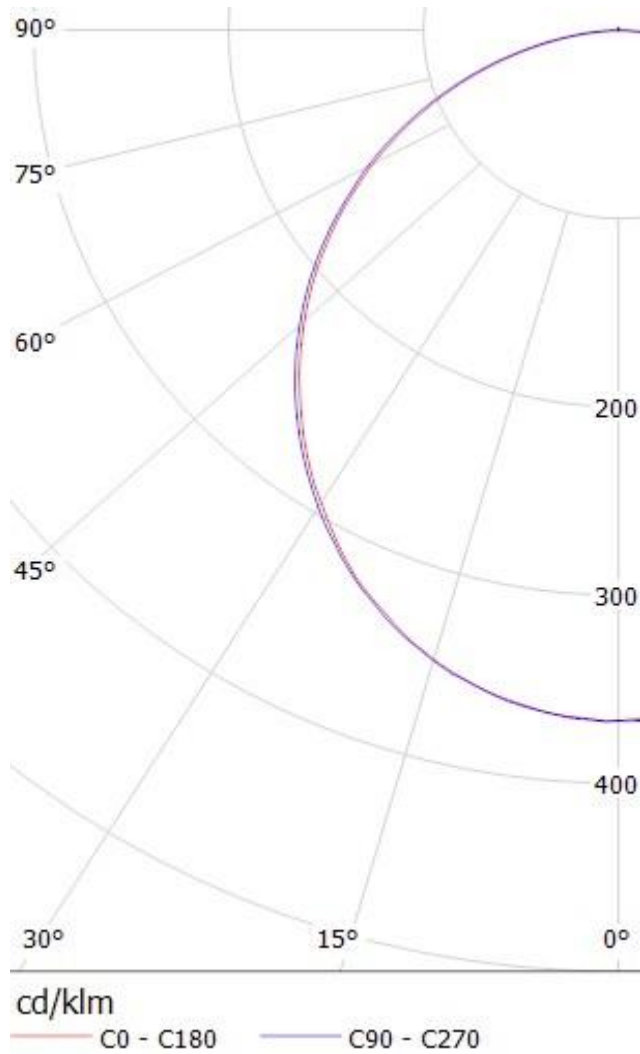


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Photometric



ZONAL LUMEN SUMMARY

ZONE	LUMENS	% LAMP	% LUMINAIRE
0-30	918	28.10%	28.10%
0-40	1,489.60	45.50%	45.50%
0-60	2,593.20	79.30%	79.30%
60-90	671.3	20.50%	20.50%
70-100	278.7	8.50%	8.50%
90-120	0.8	0%	0%

INTENSITY (CANDLEPOWER) SUMMARY

Gamma	C 0°	C 45°	C 90°	C 135°	C 180°	C 225°	C 270°	C 315°	C 360°
0.0°	367	367	367	367	367	367	367	367	367
15.0°	348	350	351	350	349	350	350	349	348
30.0°	299	301	304	302	299	301	302	300	299
45.0°	229	232	236	232	229	232	233	230	229
60.0°	148	151	154	151	148	149	151	149	148
75.0°	63	66	68	65	62	63	64	63	63
90.0°	0.01	0.02	0.06	0	0	0	0	0.02	0.01

LUMEN AT DISTANCE

CENTER BEAM HEIGHT(FT)	BEAM SPREAD(FT)		FIELD SPREAD(FT)		
	FOOTCAN DLE	HORIZON TAL	VERTICAL TAL	HORIZON VERTICAL	
2	300.0 FC	5.6	5.4	24 22.5	
4	75.0 FC	11.2	10.8	48 45	
6	33.3 FC	16.9	16.2	72 67.4	
8	18.7 FC	22.5	21.6	96 89.9	
10	12.0 FC	28.1	27	120 112.4	
		BEAM ANGLE		FIELD ANGLE	
		109.1°	107.0°	161.1°	159.8°



COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

EFFECTIVE FLOOR CAVITY REFLECTANCE: 20%

RCC %	80				70				50			30			10			0
RW %:	70	50	30	0	70	50	30	0	50	30	20	50	30	20	50	30	20	0
RCR: 0	1.19	1.19	1.19	1.19	1.16	1.16	1.16	1	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1
1	1.09	1.04	1	0.96	1.06	1.02	0.98	0.85	0.97	0.94	0.91	0.94	0.91	0.89	0.9	0.88	0.86	0.84
2	0.99	0.91	0.84	0.78	0.96	0.89	0.83	0.71	0.85	0.8	0.75	0.82	0.78	0.74	0.79	0.75	0.72	0.7
3	0.9	0.8	0.72	0.65	0.88	0.78	0.71	0.61	0.75	0.69	0.63	0.72	0.67	0.62	0.7	0.65	0.61	0.59
4	0.83	0.71	0.62	0.55	0.8	0.69	0.61	0.52	0.67	0.6	0.54	0.64	0.58	0.53	0.62	0.57	0.53	0.5
5	0.76	0.63	0.54	0.48	0.74	0.62	0.54	0.45	0.6	0.52	0.47	0.58	0.51	0.46	0.56	0.5	0.46	0.44
6	0.7	0.57	0.48	0.42	0.68	0.56	0.48	0.4	0.54	0.47	0.41	0.52	0.46	0.41	0.51	0.45	0.4	0.38
7	0.65	0.52	0.43	0.37	0.63	0.51	0.43	0.36	0.49	0.42	0.36	0.48	0.41	0.36	0.46	0.4	0.36	0.34
8	0.61	0.47	0.39	0.33	0.59	0.46	0.38	0.32	0.45	0.38	0.32	0.44	0.37	0.32	0.43	0.37	0.32	0.3
9	0.57	0.43	0.35	0.3	0.55	0.43	0.35	0.29	0.42	0.34	0.29	0.4	0.34	0.29	0.39	0.33	0.29	0.27
10	0.53	0.4	0.32	0.27	0.52	0.39	0.32	0.26	0.38	0.31	0.27	0.37	0.31	0.26	0.37	0.31	0.26	0.25

Application Reference

Open Area

40'long x 24'wide x 9'ceiling, 80/50/20 reflectance, 0.8 LLF, Calculation grid at 2.5'

Spacing	Number of Luminaires	Maintained Average Illumination	Max./Min.	Input Power per Luminaire	Watts/ Sq. foot
8'x8'	15	38fc	2.4	40W	0.68
8'x10'	15	35fc	1.9	40W	0.68
10'x10'	12	28fc	2.3	40W	0.55
10'x12'	12	27fc	1.8	40W	0.55

Corridor

100'long x 5'wide x 9'ceiling, 80/50/20 reflectance, 0.8 LLF, Calculation grid at 2.5'

Spacing	Number of luminaires	Maintained Average Illumination	Max. /Min.	Input Power per Luminaire	Watts/ Sq. foot
12'	9	24fc	1.8	40W	0.79
14'	8	21fc	2.5	40W	0.7
16'	7	29fc	3.2	40W	0.61



ATG Electronics® iBright™ ECO Panel

USER GUIDE

NOTE:

Please read the entire manual to fully understand and safely use this product.

The products can be used at the voltage of 100-277V AC, 50/60HZ, suitable for indoor dry environment.

Specifications are subject to change without notice. Please visit www.atgelectronics.com for the most recent user guide versions.

UNPACKING

- 1) Unpack and carefully examine the product.
- 2) Report any damage and save all packing materials if any parts were damaged during shipping.
- 3) Do not attempt to use this apparatus if it is damaged.

INSTALLATION INSTRUCTIONS

- 1) CONSULT A QUALIFIED ELECTRICIAN TO ENSURE CORRECT BRANCH CIRCUIT CONDUCTOR.
- 2) The product should be installed and operated by a qualified electrician or technician in accordance with relevant local codes.
- 3) Risk of electric shock. Ensure that main power source is off when wiring or soldering the sections of the product.

MAINTENANCE

- 1) Prior to cleaning the product, make sure it has been disconnected from the power supply.
- 2) Use a dry or slightly moistened cloth for cleaning.
- 3) Never use any chemicals or abrasive materials for cleaning.

INSTALLATION CONSIDERATIONS

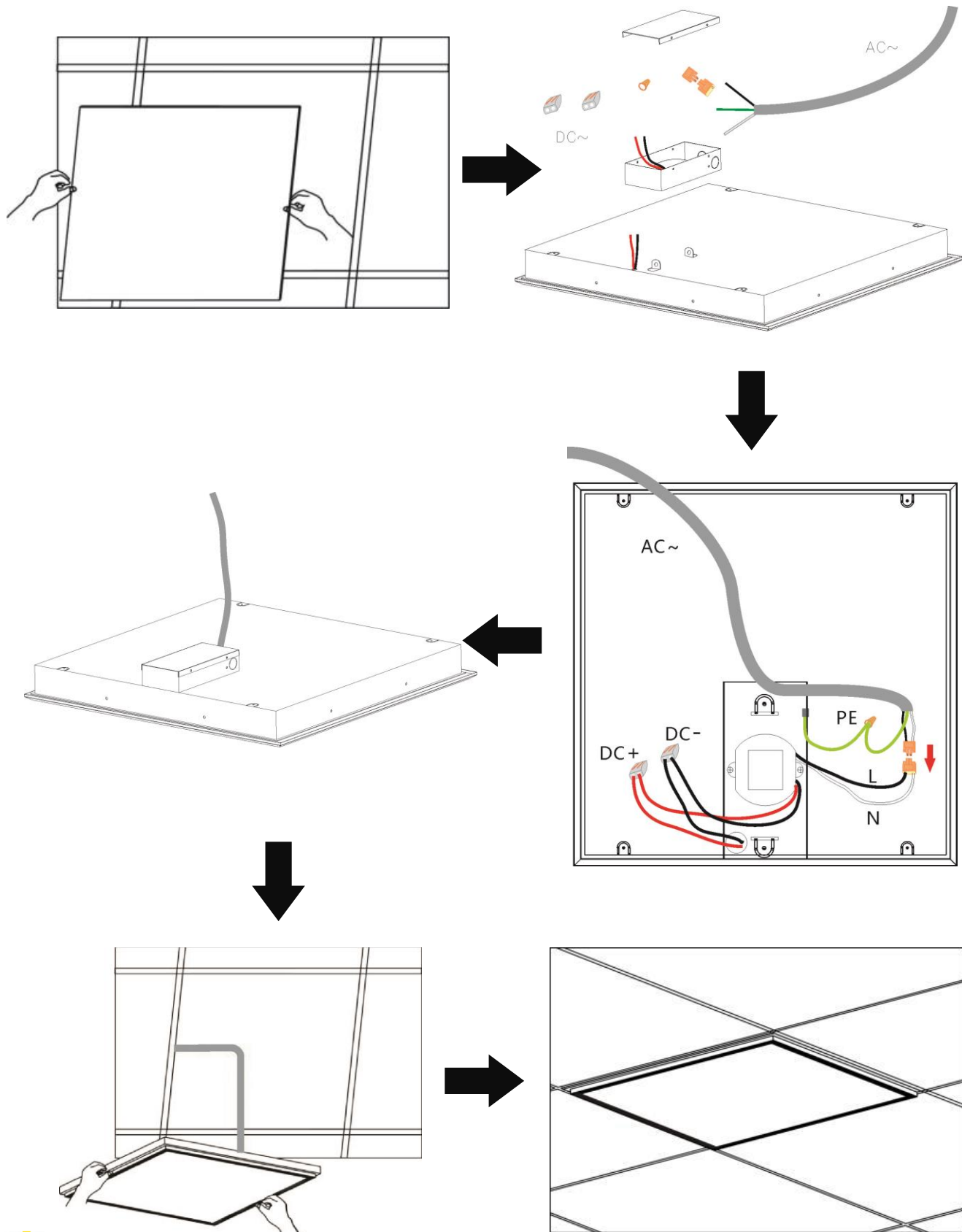
- 1) The product must be at a minimum distance of 0.2 m from ANY FLAMMABLE MATERIALS.
- 2) The product must not be installed into ceilings or walls that contain heat-insulating materials.

INSTALLATION STEPS

1. Built-in

- 1) Turn off main power before installation.
- 2) Remove the ceiling panel.
- 3) Mount the driver box to the back of the ECO Panel.
- 4) Connect the input and ground wires (bare end) of the driver box to the main power outlet.
- 5) Connect the ECO Panel to the corresponding connectors on the output wires of the driver box.
- 6) Fix the ECO Panel into the ceiling.





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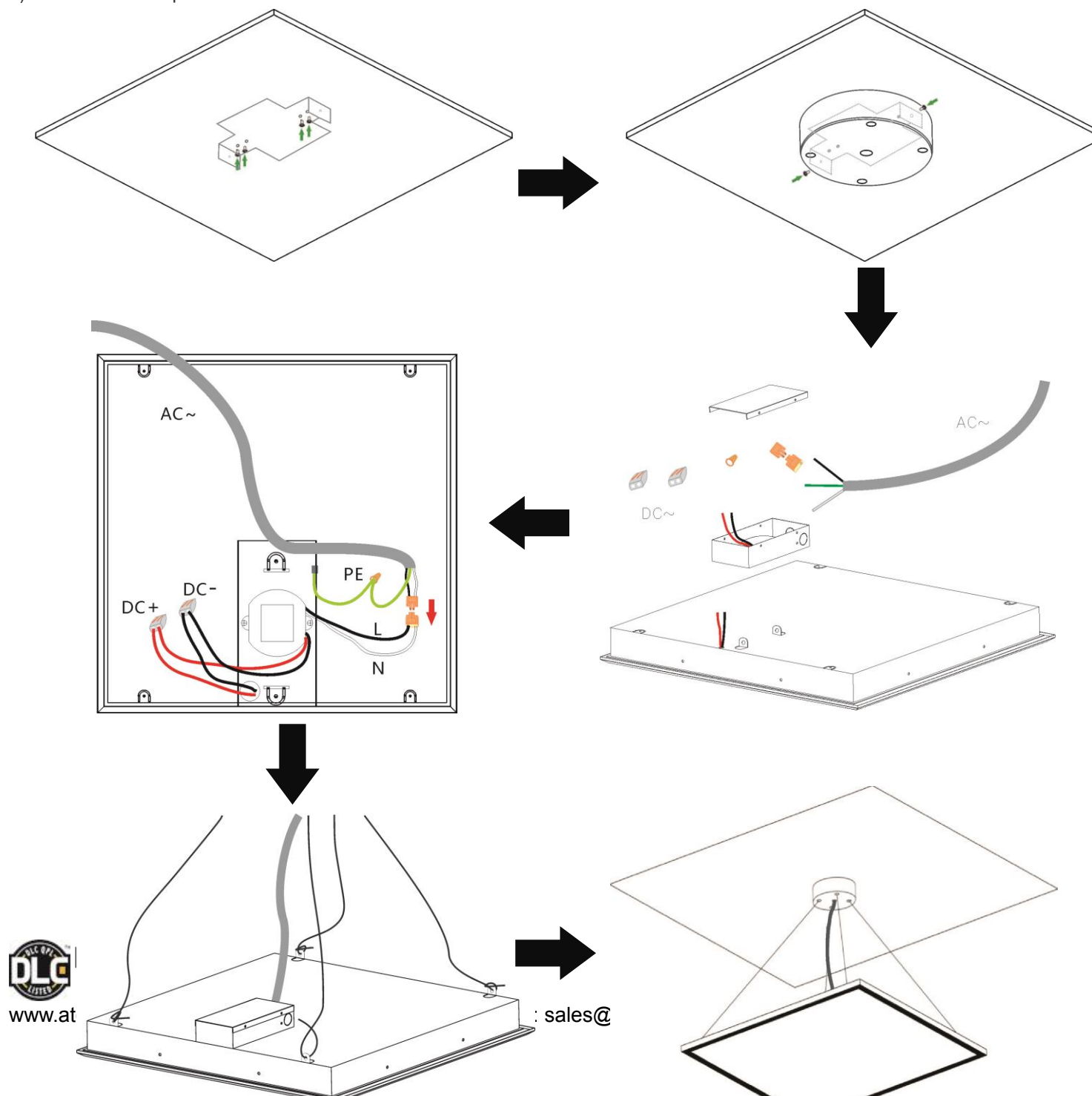


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2. Suspended

Accessories for suspended installation are available at an extra charge.

- 1) Turn off the main power before installation.
- 2) Fix the suspended box to the ceiling with screws.
- 3) Mount the driver box to the back of the ECO Panel.
- 4) Connect the ECO Panel to the corresponding connectors on the output wires of the driver.
- 5) Connect the input and ground wires (bare end) of the driver to the main power outlet.
- 6) Fasten the suspended cables to the hooks of the ECO Panel.



3. Surface Mount

Mounting box is available at an extra charge.

- 1) Turn off the main power before installation.
- 2) Fix the mounting box to the ceiling with screws.
- 3) Mount the driver box to the back of the ECO Panel.
- 4) Connect the input and ground wires (bare end) of the driver box to the main power outlet.
- 5) Connect the ECO Panel to the corresponding connectors on the output wires of the driver box.
- 6) Fix the ECO Panel to the mounting box with screws from sideways.

