

# FPEL NOVA Edge Lit Flat Panel

## Indoor

The NOVA has served in offices, schools, hospitals, and community centers to great effect and is one of our best-selling products. The streamlined profile, combined with high performance and minimal maintenance, has quickly gained traction among our customers.



1-10V Dim



Toxin-Free



-40°C - 40°C  
Operating



Daylight  
Sensor



Motion  
Sensor



10 Year  
Warranty



EM Driver

Luminaire	NOVA Flat Panel	Type
Project		
Product		
Notes		

### Features

- Housed in heavy-duty sheet metal with integrated heatsink
- Surface-mounted-device (SMD) LEDs with CRI of 80+
- Can be recessed or installed on a surface mount



### Order Format

Sample: FPEL22-30-40

Series	Dimension	Wattage	CCT
FPEL=NOVA Edge Lit Panel	14=1'x4' 22=2'x4' 24=2'x4'	20W=20W 30W=30W 40W=40W	35=3500 40=4000 50=5000

### Application

The NOVA Panel can be recessed, installed on a surface mount or suspended from an open ceiling layout. When surface mounted, the luminaire maintains a slim profile due to its  $\leq 2.36"$  unit depth, including the driver box.

### Construction

The NOVA Flat Panel is housed in heavy-duty sheet metal with an integrated heatsink. The design incorporates elegantly into a wide range of interior layouts. The lightweight design is robust and facilitates ease of installation.



### Electrical

Standard input voltage is 120-277V. Luminous efficacy is 127 mm/W or greater. Fixtures are available in 20W, 30W, or 40W, depending on the ordered configuration.

### Optics

The NOVA makes use of high-efficiency surface-mounted-device (SMD) LEDs with CRI of 80+. Those LEDs are matched with a polycarbonate diffuser for a consistent quality of light. Color temperatures are 3500K, 4000K or 5000K, optimal for office and design-oriented environments.

### Certifications

- DLC Premium
- UL Listed
- CE
- RoHS
- Title 24

Input Voltage (VAC)	120-277
CRI	82
CCT(K)	3,500 4,000 5,000
PF	.9
THD	<20%
L70 (Hours)	100,000+
Color	Matte White
Housing	Sheet Metal & PC Diffuser
Optic Types	Frosted
Temperature Range	-40°C to 40°C
Warranty	10 Years

Lumen Data							
Dimensions of Troffer (FT)	Wattage (W)	35K		4K*		5K	
		Efficacy (Lm/W)	Lumens (Lm)	Efficacy (Lm/W)	Lumens (Lm)	Efficacy (Lm/W)	Lumens (Lm)
1'X4'	30	126	3,780	129	3,870	131	3,930
2'x2'	20	125	2,500	128	2,560	130	2,600
	30	126	3,780	129	3,870	131	3,930
2'x4'	30	127	3,810	130	3,900	132	3,960
	40	130	5,200	133	5,320	135	5,400

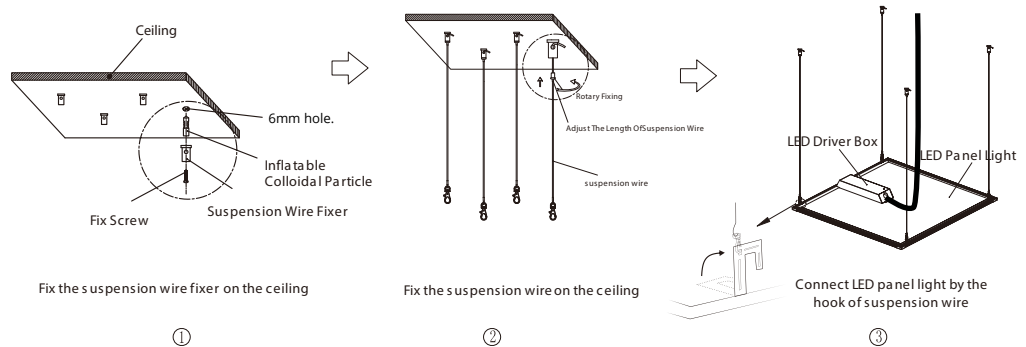
\*4K instant shipment from soCal, contact sales for stock info

Dimensions			
1'x4' 2'x2' 2'x4'			
	Part No.	Length (L)	Width (W)
	FPEL14	47.79"	11.81"
	FPEL22	23.77"	23.77"
	FPEL24	23.77"	47.79"

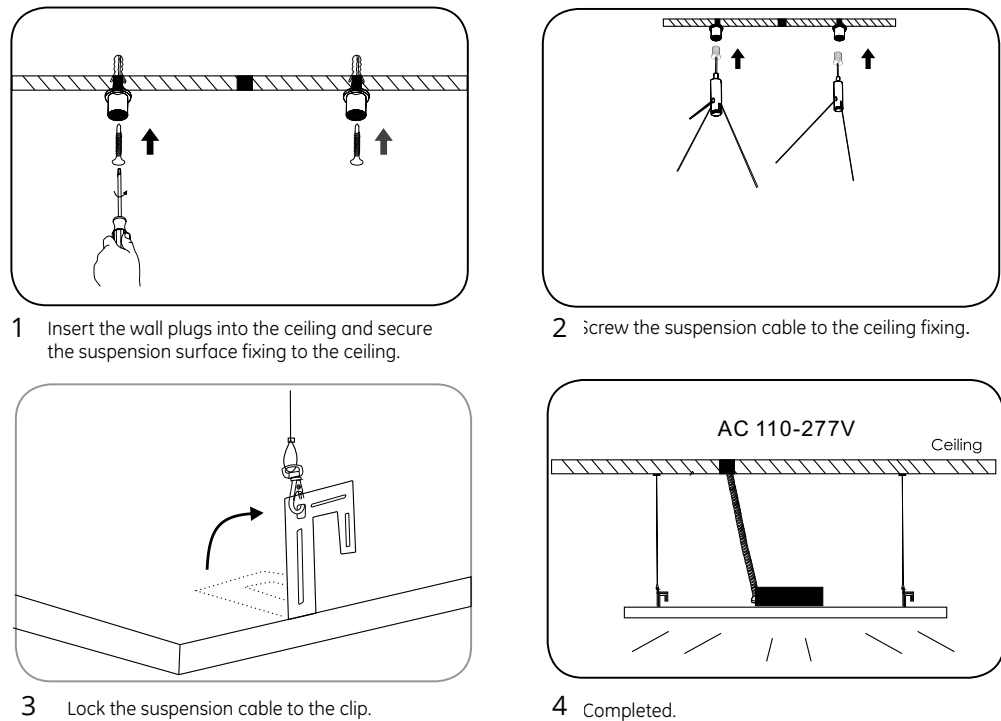
Recorded in inches

## Mounting

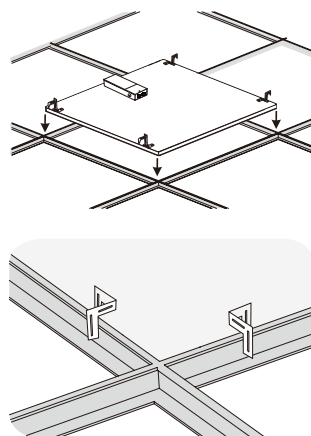
### Suspension



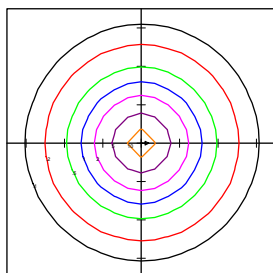
### Y Suspension



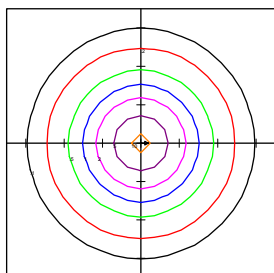
### Surface Mounting



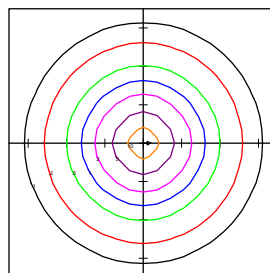
## Photometric



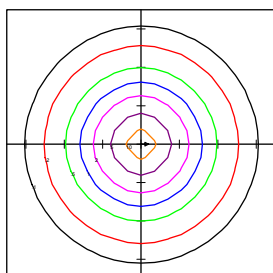
FPEL14-30W-40 @10'



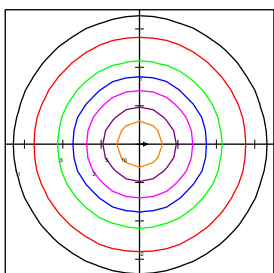
FPEL22-20W-40 @10'



FPEL22-30W-40 @10'



FPEL24-30W-40 @10'



FPEL24-40W-40 @10'

## Electrical



### WP-08U-48-EA Emergency Driver

### Ordering Data

Max Output Watts	Output Current (mA)	Charging time	Battery	Response time	Operating time	Net Weight	Dimension
8W	160 220 330 440	24H	Ni-cd 9.6V 24WH	<5S	≥90min	1.43Kg ±5%	264*57.6*56mm

### Input Information

Line Voltage (AC Operation)	100-277Vac
Line Frequency	50/60Hz
Line Current	≤0.1A
Inrush Current	≤60A Per NEMA 410
Inrush Current	24H
battery	Ni-cd 9.6V 24WH
Standby Power	≤5W

### Output Information

Max Output Power	8W
Max Output Power	12-18Vdc 18-24Vdc 24-36Vdc 36-48Vdc
Output Current Range	440mA 330mA 220mA 160mA
Output Current Accuracy	±10%
Response time	<5S
Emergency time	≥90min
Indicator status	Fast flash: the battery is not connected; often bright: normal working.

### Other

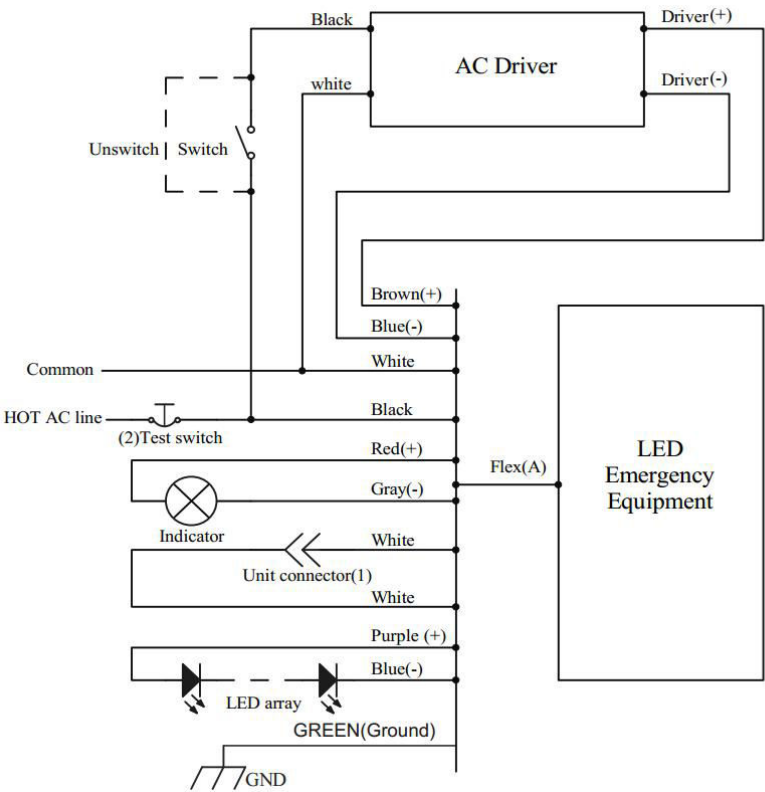
Dimension and Weight	WP-08U-48-EA L*W*H :264*57.6*56mm, weight: 1.43Kg WP-08U-48-EM L*W*H :430*57*35mm, weight: 1.49Kg
IP Grade	IP20

Electrical Continued

Wiring

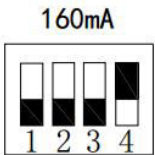
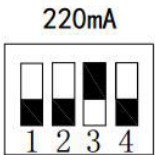
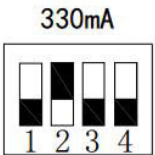
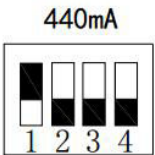


WP-08U-48-EA  
Emergency Driver  
Continued

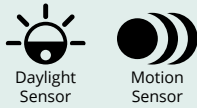


Selectable Output Current Options

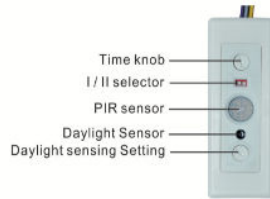
Output Current	1	2	3	4
440mA	ON	-	-	-
330mA	-	ON	-	-
220mA	-	-	ON	-
160mA	-	-	-	ON



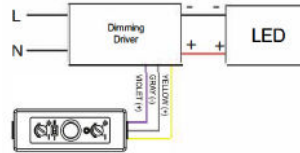
**Electrical Continued**



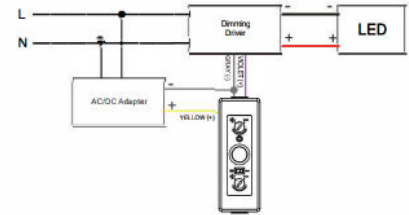
**ANT 1B  
Daylight Sensor and  
Motion Sensor**



**ANT-1B wiring with 12VDC wire dimming ballast or LED driver.**

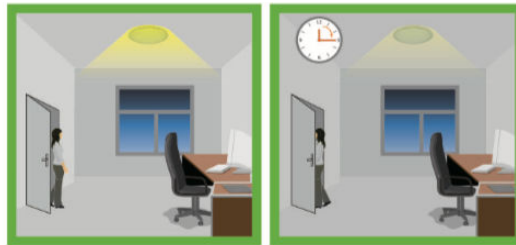


**ANT-1 B Wiring by AC/DC Adapter with dimming ballast or led driver.**



Operating Voltage	12VDC
Max. current sink	50mA (Maximum Rating)
Mounting Height	4m Max.
Color coding of cable	Violet+, Gray -, YELLOW (+)
Cable Length	100cm
Detection Angle	120 °
Operating Temperature	-0°C ~45 °C
IP Rating	IP20

**Setting I= Presence detection only. (default factory setting)**



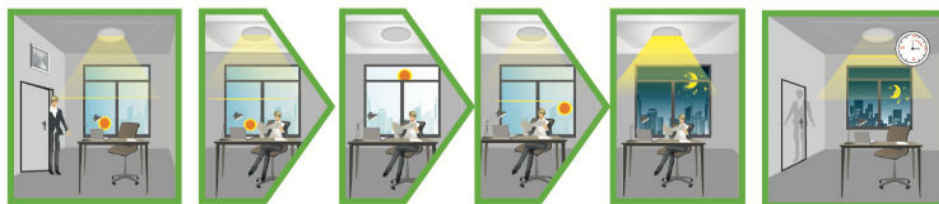
When used in ANT-1 B, the light will automatically on when with presence. When no presence is detected after delay time, the luminaire will be dimmed down to a dim level corresponding to 0.5V on the dim input of the ballast used.

The sensor switches on the light automatically when person enters the room. The lamp never switch off with presence, even the nature light is sufficient.

People left, the light Dims to dimmed down to a dim level corresponding to 0.5V on the dim input of the ballast used, after the delay time

**Setting II= Presence detection and Daylight harvest sensing.**

When used in ANT-1 B, the light will automatically on when with presence. When there is more than enough light; the light will dim. Tweaking of the light level is done by daylight sensing setting. The minimum dim level corresponds to 0.5V on the dim input of the ballast.



The lamp switches on when motion is detected.

The lamp lights dimming up/down to maintain the preset light level set point.

People left, the light Dims to dimmed down to a dim level corresponding to 0.5V on the dim input of the ballast used, after the delay time.

## Electrical Continued



Daylight  
Sensor



Motion  
Sensor

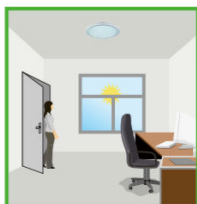
### ANT-4B PIR Bilevel Daylight Harvest Sensor and Motion Sensor



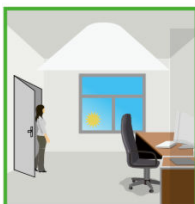
Operating voltage	12VDC
Max. current sink	50mA (Maximum rating)
Mounting height	4m Max.
Color coding of cable	Violet+, Gray -,YELLOW(+)
Cable length	100cm
Detection angle	90 °
Operating temperature	-0 °C ~45°C
IP rating	IP20

### Daylight Harvest Function

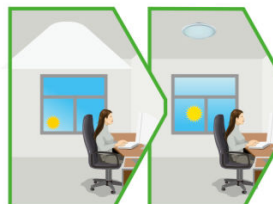
The PIR Occupancy bi-level sensor achieves daylight harvest control, for the same areas that require a light change notice before switch off. It offers 3 levels of the light Control: 100%--dimming light (0, 10%,30%,50%)--off;and 2 periods of selectable waiting time: motion hold-time and stand-by time.Daylight harvest control works in hold-time.



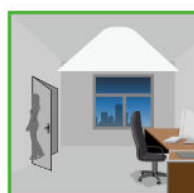
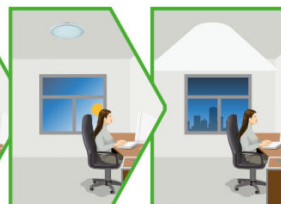
The light will not switch on when natural light is sufficient, even there is motion detected.



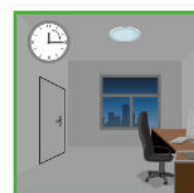
The light switches on automatically with presence when natural light is insufficient.



The light turns on at full or dims to maintain the lux level. The light output regulates according to the level of natural light available.



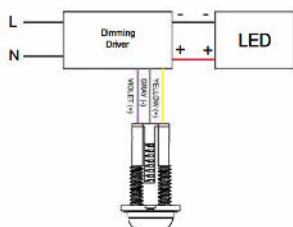
The light dims to stand-by period after hold-time and stays on selected minimum dimming level.



The light switches off completely after the stand-by period.

## Wiring

ANT-4B wiring with 12VDC wire dimming ballast or LED driver.



ANT-4B Wiring by AC/DC Adapter with dimming ballast or led driver.

