TOPBAND
CO-INNOVATING A SMARTER FUTURE

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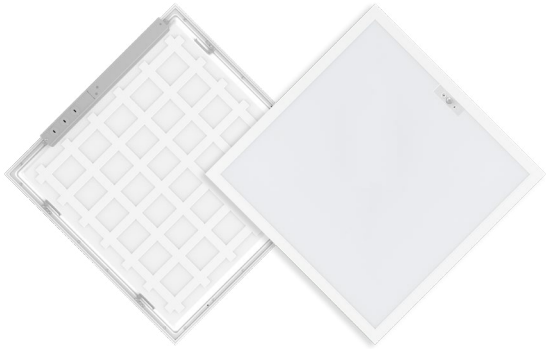


Backlit Flat LED Panel Light

TOPBAND LED Panel Light is a highly versatile luminaire designed to provide smooth lighting. It comes in 1x4, 2x2 and 2x4 backlit light distribution for a shadowless and more evenly distributed effect. The enhanced optics with back lit technology produces a low glare and a consistence even illumination. Smart APP control is realised. Backlit panel light has a longer lifespan, good resistance to yellowing.

Backlit Flat LED Panel Light is the ideal low profile replacement for fluorescent fixture. Ideal for general lighting applications such as open office, schools, healthcare, and retail.

PIR Daylight Sensor

PIR sensor and Daylight sensor are embedded into LED panel light's surface. Download smart APP on your phone, then remote control can be achieved. Or install wireless Bluetooth switch, you can dim up or down, turn on or off, adjust scenes adjustable and set auto-brightness. Enjoy the light as you like!

PRODUCT FEATURES

Electrical

- Input voltage: 100-277VAC, 50/60Hz. Long-life LEDs provide the fixture a rate life of 50,000 hours.
- Excellent luminaire efficacy provides significant energy savings: 125lm/w for option.
- Isolated power supply is relatively safer. To ensure trouble-free operation, protection is provided against output over-current, output over-voltage, short circuit.
- Smart control: PIR sensor, Daylight Sensor and APP control.

Optical

- Translucent white polystyrene (PS) face frame delivers soft and comfortable light.
- Specialised optics design makes the light more uniform.
- 80 CRI minimum source provides excellent color rendering.
- Lead free and eco-friendly, zero maintenance.
- CCT available in 3500K, 4000K, and 5000K.

Construction

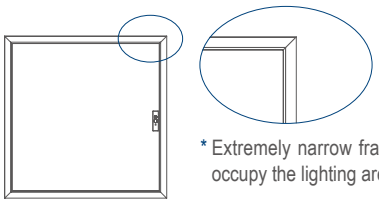
- Compared with general edge lit panel, backlit is more lightweight without the light guide plate (LGP).
- The light is made of cold-rolled steel SPCC back and aluminum frame.
- 1'x4', 2'x2' and 2'x4' panel light are manufactured with quality components and finishes.
- Junction box is attached to the side of the luminaire. IP20, suitable for indoor applications.

Application

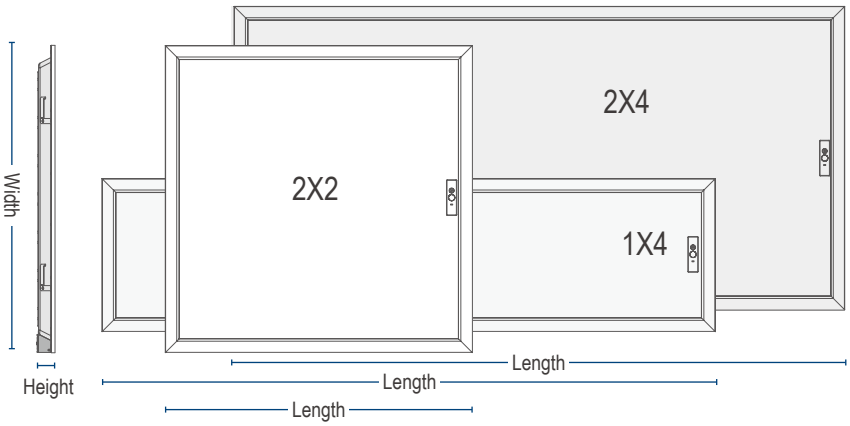
- ***TOPBAND*** Backlit Flat LED Panel Light is the ideal low profile replacement for fluorescent fixture. Ideal
- for general lighting applications such as open office, schools, healthcare, and retail.
  Working temp.:-20~40ºC(-4~104ºF). Storage temp.:-30~60ºC(-22~140ºF)

DIMENSION

Dimensions	Length	Width	Height
1X4	1213mm/47.75"	303mm/11.9"	35mm/1.37"
2X2	603mm/23.74"	603mm/23.74"	35mm/1.37"
2X4	1213mm/47.75"	603mm/23.74"	35mm/1.37"



* Extremely narrow frame, does not occupy the lighting area.



* All dimensions are inches (centimeters) unless otherwise indicated.

Backlit Flat LED Panel Light

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PARAMETER

Ordering Information

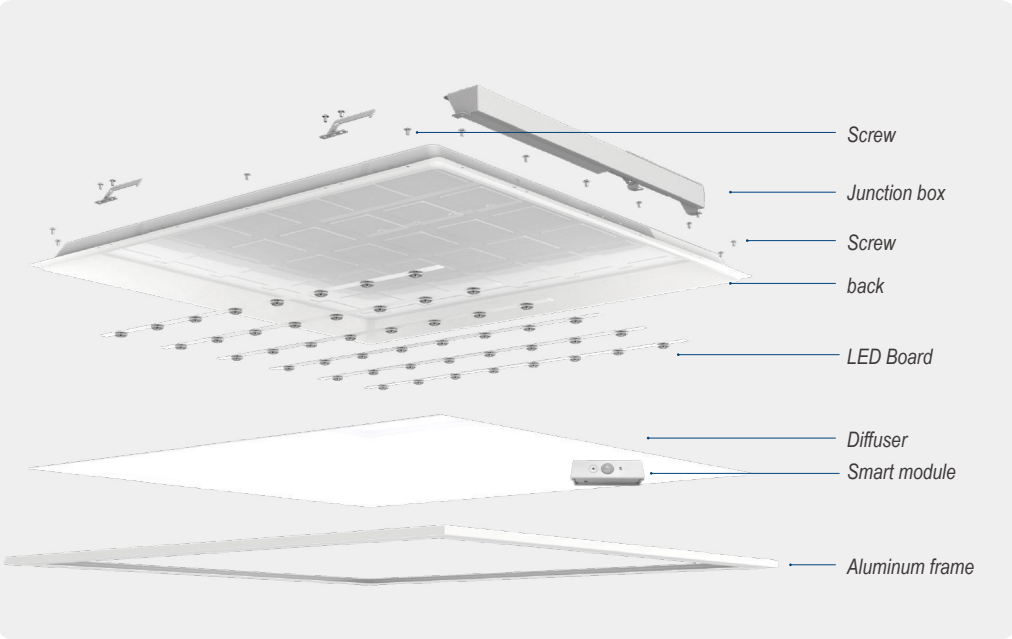
Example: **TPLNBPD14DLA-30WB**

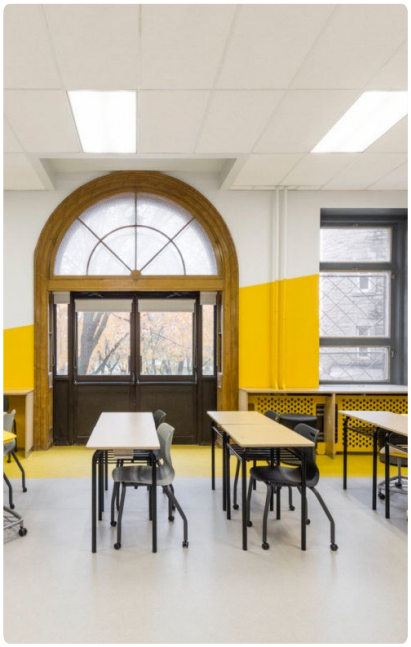
TP	LNB	PD	14	D	L	A	30W	B
Manufacturer	Products Series	Products Type	Length	Function	AC Input	Version	Product Wattage	LEDs
Topband	Backlit	Panel Direct lighting	14=1x4FT 22=1x2FT 24=2x4FT	D= Dimmable	100-277V	1st Generation	30W, 36W, 40W, 50W	SMD2835

Dimensions	Model No.	Power	Lumens
1X4 FT	TPLNBPD14DLA-30WB	30W	3750lm
	TPLNBPD14DLA-36WB	36W	4500lm
2X2 FT	TPLNBPD22DLA-30WB	30W	3750lm
	TPLNBPD22DLA-36WB	36W	4500lm
2X4 FT	TPLNBPD24DLA-40WB	40W	5000lm
	TPLNBPD24DLA-50WB	50W	6250lm

Summary	
Efficacy:	125LPW
Beam angle:	120°
CCT:	3500K, 4000K, 5000K
Function:	APP Bluetooth Control
Dimmable:	Optional (0-10V)
CRI:	>80
THD:	<20%
PF:	>0.9
Power efficiency:	87%
Output voltage:	36V

DETAILS





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WIRELESS BLUETOOTH LIGHTING CONTROL SYSTEM

BLUETOOTH SWITCH

1. Auto-brightness Setting: Keep the ambient lighting more comfortable and energy-saving.

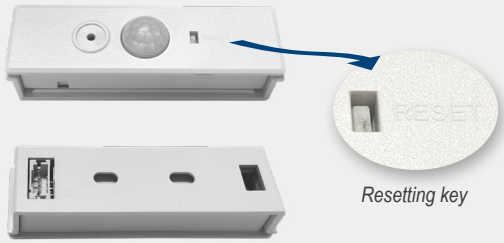
2. Dim Up.

3. ON / OFF.

4. Dim Down.

5. Scene Switch: Three scenes at most.

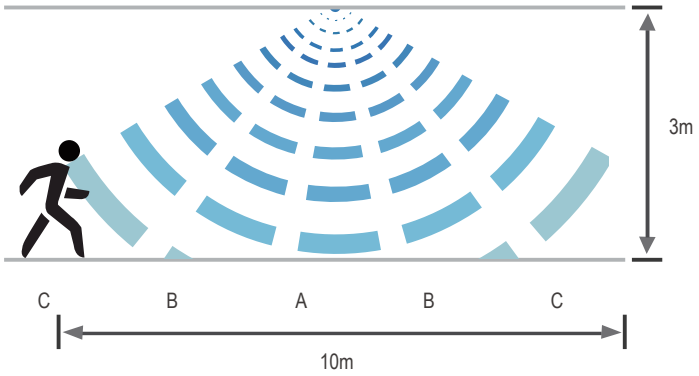
SMART SENSOR

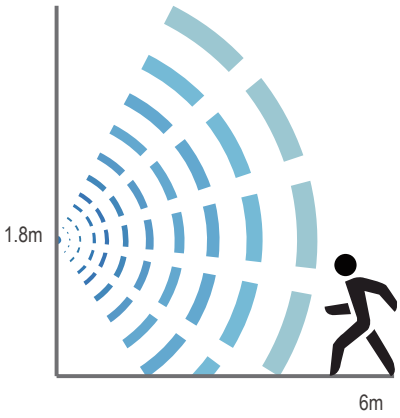


Resetting key

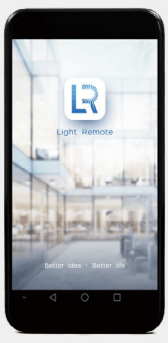
Features:

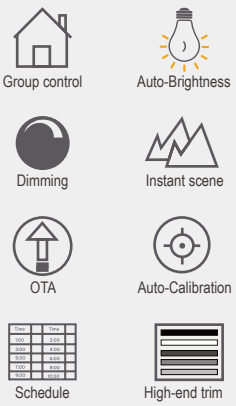
Occupancy sensor and daylight harvesting sensor.
Embedded Bluetooth communication module.
Support 1-channel and 2-channel dimmable.
Low profile and can be inserted into any luminaries.
Operated by Light Remote LED APP.
Can match with various antennas in different luminaries.
Working temperature: -30~80°C (-22~176°F)





Bluetooth Control





Light Remote LED -Android

Light Remote LED -IOS

Google Play

App Store

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ENERGY SAVING SOLUTION

Estimated lighting costs using a standard 3 lamp T8 troffer

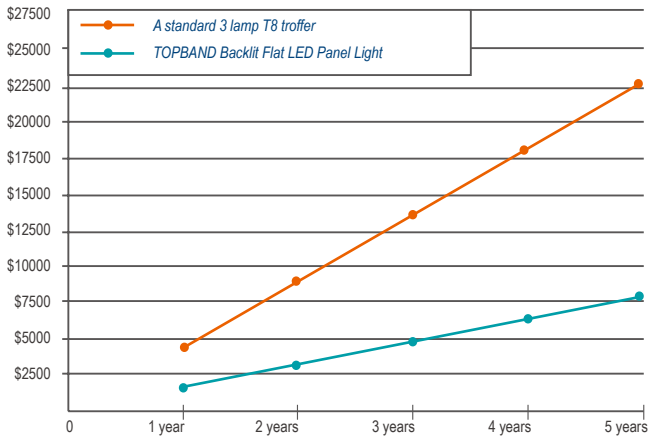
Present wattage	85	W
× Annual operating hours	4,380	hrs
	= 372,300	Watt-Hours
÷ 1,000	= 372,3	kWh per year
× kWh rate of $0.10	= $37.23	per year
× 125 fixtures	$4,653.75	annual energy cost per space

Estimated lighting costs using a TOPBAND Backlit Flat LED Panel Light

Present wattage	36	W
× Annual operating hours	4,380	hrs
	= 157,680	Watt-Hours
÷ 1,000	= 157.68	kWh per year
× kWh rate of $0.10	= $15.7	per year
× 125 fixtures	$1,962.5	annual energy cost per space

Total estimated annual savings **$2,691.25**

Based on 125 fixtures per space operating 4,380 hours a year. 125 fixtures is roughly equivalent to a 10,000 square foot space. kWh rates will vary.



Savings calculations are based on energy costs using $0.1 per kWh and 12 hours of daily operation.

PHOTOMETRY

TPLNBPD14DLA-36W-2835LEDMLS-4500 nominal delivered lumens

Catalog No. TPLNBPD14DLA-36WB
Manufacture: TOPBAND
S/MH: C0_a180=1.272 C90_270=1.265
Lamp Type: LED
Rated Voltage: 120V

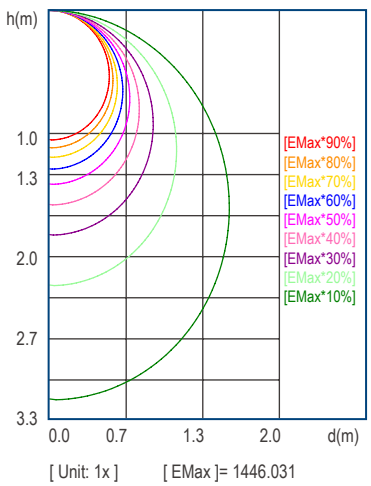
Photometric values based on test performed in compliance with LM-79.

Coefficients of Utilization

Coefficients of Utilization - Zonal Cavity Method

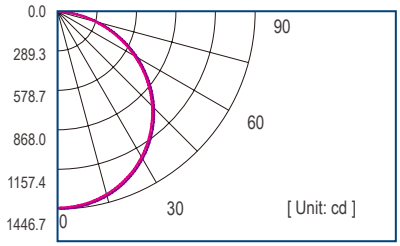
Coef.	Effective Floor Cavity Reflectance RFC=0.20																		
RhoCC(%)	80				70				50			30			10			0	
RhoW(%)	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR	Coefficient of Utilization(%)																		
0	118	118	118	118	115	115	115	115	110	110	110	104	104	104	99	99	99	97	
1	108	103	99	95	105	100	96	93	96	92	89	91	89	86	87	85	83	87	
2	98	90	83	77	95	87	81	76	83	78	73	80	75	71	76	73	69	67	
3	89	78	70	64	86	77	69	63	73	67	61	70	65	60	67	63	59	56	
4	72	69	61	43	79	68	60	53	65	58	52	62	56	51	60	55	50	48	
5	75	62	53	54	73	61	52	46	58	51	45	56	49	44	54	48	43	41	
6	69	56	47	46	67	55	46	40	52	45	39	51	44	39	49	43	38	36	
7	64	50	42	40	62	49	41	35	48	40	35	46	39	34	44	38	34	32	
8	60	46	37	32	58	45	37	31	44	36	31	42	35	31	41	35	30	28	
9	56	42	34	28	54	41	34	28	40	33	28	39	32	28	38	32	27	25	
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	35	29	25	23	

C0 Space ISO Illuminance Curve



[Unit: 1x] [EMax]= 1446.031

C Plane Distribution Diagram



C Plane:	[50%MaxAng.]	[10%MaxAng.]
C0.0_180.0:	114.2	164.1
C90.0_270.0:	113.8	163.0

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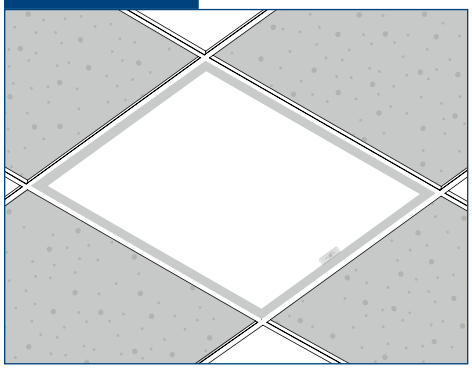
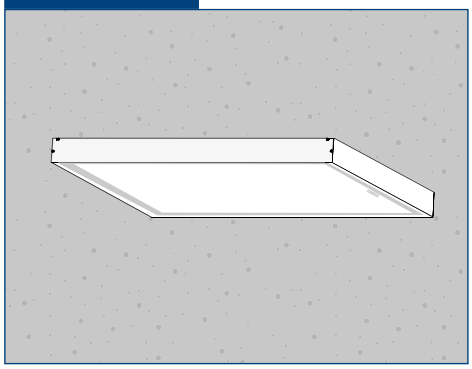
INSTALLATION

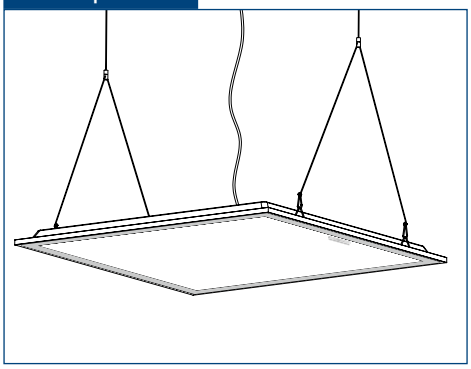
Recessed



Surface



Cable-suspended

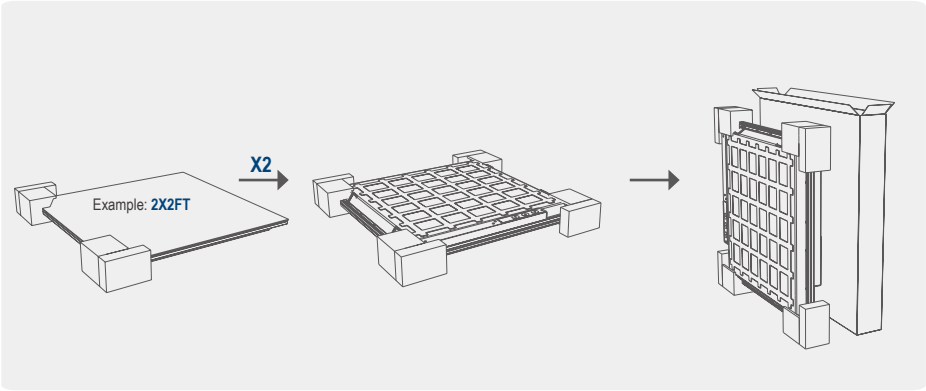


TOPBAND Backlit Flat LED Panel Light :

- *Please check the accessory bag before installation.*
- *Turn power off before installation or disassembly.*
- *Connect the wires correctly. If the dimming wire not needed, make it insulated in case of electricity.*

* *Please refer to Installation Manual of LED Panel Light for more information.*

SCHEMATIC DIAGRAM OF PACKAGING



Size	Product Dimension	Carton Dimension	N.W. / Product	G.W. / Carton	Pcs / Carton
1X4 FT	1213*303*35mm(47.75*11.9*1.37")	1303*95*405mm(51.29*3.74*15.94")	2.08kg(4.58lb)	5.26kg(11.59lb)	2 pcs, 1 storey
2X2 FT	603*603*35mm(23.74*23.74*1.37")	695*95*705mm(27.36*3.74*27.75")	2.15kg(4.73lb)	5.64kg(12.43lb)	2 pcs, 1 storey
2X4 FT	1213*603*35mm(47.75*23.74*1.37")	1303*95*705mm(51.29*3.74*27.75")	4.13kg(9.10lb)	9.86kg(21.73lb)	2 pcs, 1 storey

Backlit Flat LED Panel Light

WARNING

RISK OF FIRE OR ELECTRIC SHOCK

The Backlit Flat LED Panel Light must be installed by a qualified electrician in accordance with applicable federal, state, and local laws and codes. Installation requires knowledge of luminaire electrical systems and installer should be familiar with the operation of this product. If not qualified, do not attempt installation; contact a qualified electrician. Manufacturer assumes no responsibility for the improper installation of this luminaire. When installing the fixture, drilling may damage luminaire wiring and electrical parts. Check for wiring and components in enclosure before drilling. Before installation or maintenance, please disconnect the power to prevent electric shock.

WARNING

To prevent wiring damage or abrasion, do not expose wiring to edges of sheet metal or other sharp objects. When installing this kit, drilling may damage luminaire wiring and electrical parts. Check for wiring and components in enclosure before drilling.

CAUTION

RISK OF PERSONAL INJURY

- Wear gloves or proper handling protection to prevent cuts or abrasions when handling and maintaining this product. This equipment may have sharp edges. To reduce the risk of death, personal injury or property damage from fire, electric shock, falling parts, cuts/abrasions, and other hazards read all warning and instructions included with and on the fixture box and all fixture labels.
- Avoid direct eye exposure to the light source while it is on.

WARNING

RISK OF PERSONAL INJURY, FIRE OR ELECTRIC SHOCK

Turn OFF power before installation.

NOTICE

- Specifications and dimensions subject to change without notice.
- Please keep the LED Panel away from any corrosive substance, and please use dry cloth when you clean it.
- Suitable for Dry location only.

Contact manufacturer with any questions or concerns regarding installation of this luminaire.

TOPBAND

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