TEKTRON®
Reliable engineering, Futuristic design

Catalog #:	
Project :	
Type :	Date:
Notes:	

BACKLIT TUNABLE PANEL LED LIGHT

TK-BLFP1-22/24-Series

DESCRIPTION

CRI more than 80 0-10V dimmable driver. Input voltage is AC100-277. Reduces energy consumption up to 60%. Special indoor luminaire design.

APPLICATIONS

Office and school lighting: office room, class room etc. Commercial lighting: shopping mall, supermarkets, retail shops etc. Other situations: hospital, laboratory.

QUICK SHIP :

TK-BLFP1-22-30WWTCT
TK-BLFP1-24-40WWTCT

Specification Features

Controls / Dimming

High quality isolated driver; 0-10V Dimmable; Flicker free.

Warranty

5 Years Limited Warranty. See warranty documentation for more information.

Certification

It complies with UL and DLC certification.

Installation / Mounting

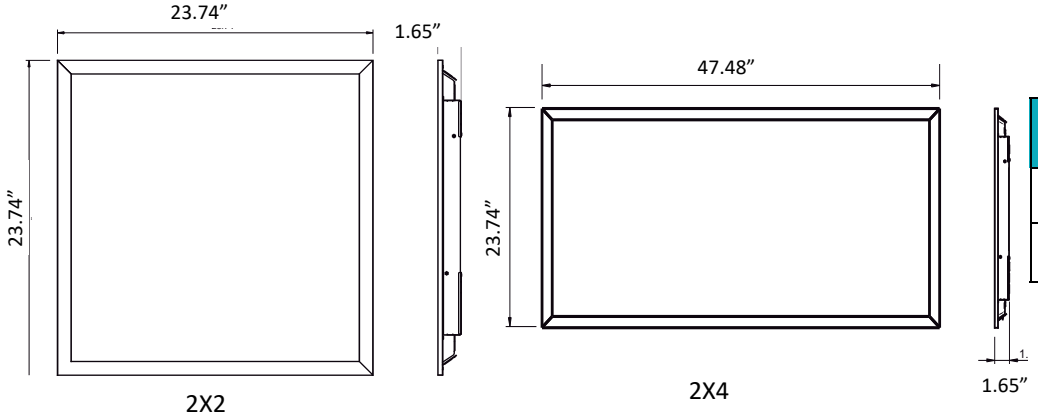
Recessed installation, suspending and surface mounted

Ordering Information

Example: TK-BLFP1-22-30WWTCT

TK	BLFP1	22	30	CCT	[Blank]	[Blank]
Brand	**Series**	**Dimensions**	**Wattage Tunable**	**Color Tunable**	**Dimmable**	
TK Tektron	**BLFP1** Backlit Tunable Panel Gen 1	**2x2** **2x4**	**2x2** **20W** 20 Watt **25W** 25 Watt **30W** 30 Watt **2x4** **28W** 28 Watt **34W** 34 Watt **40W** 40 Watt	**35K** 3500K **40K** 4000K **50K** 5000K	**D[BLANK]** Dimmable **N** Non Dimmable	**N [Blank]** No Sensor **Voltage [Blank]** 120-277V

Product Dimension



2X2 2X4

Part Number	L	W	H
TK-BLFP1-24-40WWTCT	23.74”	23.74”	1.65”
TK-BLFP1-24-40WWTCT	47.48"	23.74”	1.65”

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BACKLIT TUNABLE PANEL LED LIGHT

TK-BLFP1-22/24-Series

Lighting Parameters

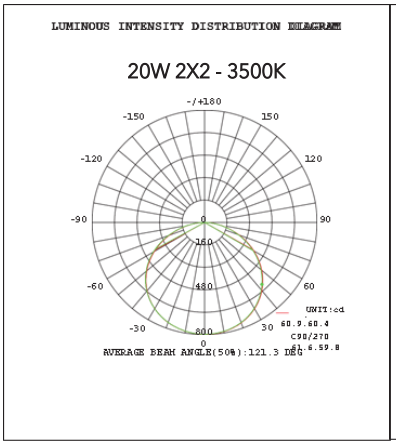
Input Voltage	AC100-277V
CCT	3500K / 4000K / 5000K
CRI	Ra>80
Luminous efficacy	125Lm/w
PF	0.90
Driver Efficiency	>85%
THD	15%
Ambient temperature	-20°C to 45°C -40°C
Life Hours (BH)	50,000 Hrs
IP Rating	IP20

Product Features

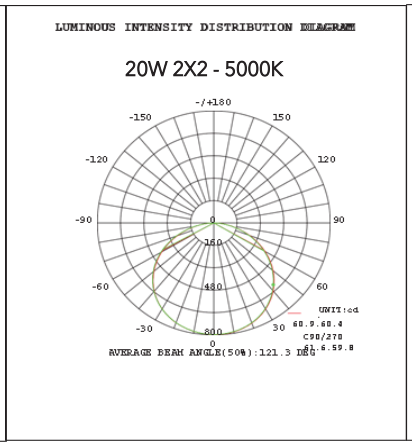
- Offered in 120º. Up to 125lm/w (0-90º).
- Input Voltage: 100-277V 0-10V dimming. LED 2835, CRI>80.
- CCT color: 3500K/4000K/5000K
- Housing: Steel housing (CRS) Frame : Aluminum Extrusion.
- Product Color White Powder Coated .
- Driver type Isolated - Constant Current (Adjustable Power and CCT using DIP Switch)
- Safety Protection No Load, Short Circuit, Reverse Polarity
- Supply Switching Test 30 Sec ON & 30 Sec OFF ; Half of Rated Life

LUMINAIRE PHOTOMETRIC TEST REPORT

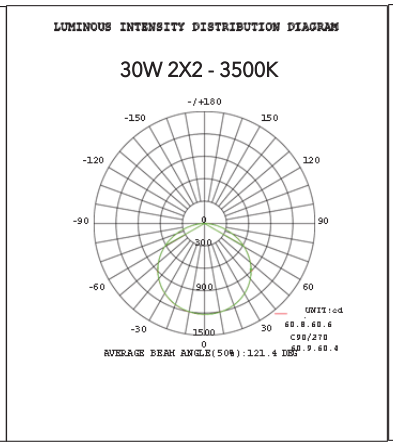
2X2 BACKLIT TUNABE PANEL



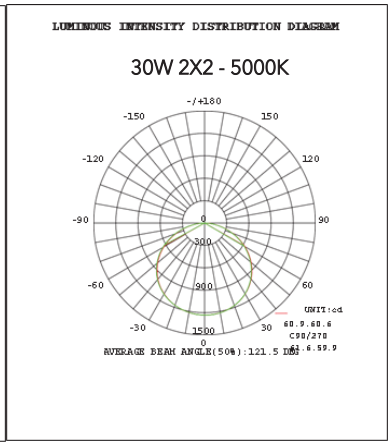
Average Beam Angle (50%) 121.3 DEG



Average Beam Angle (50%) 121.3 DEG

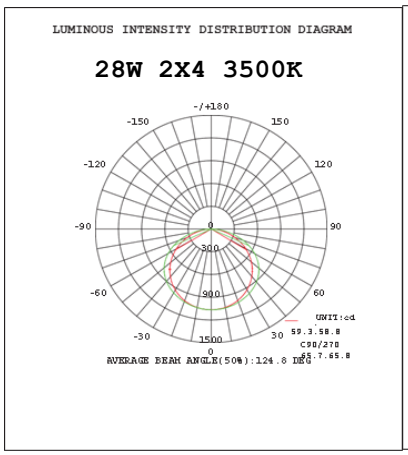


Average Beam Angle (50%) 121.4 DEG

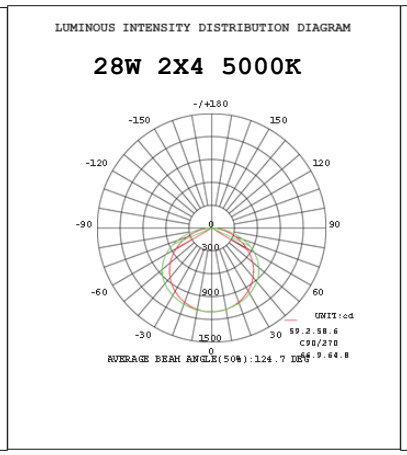


Average Beam Angle (50%) 121.5 DEG

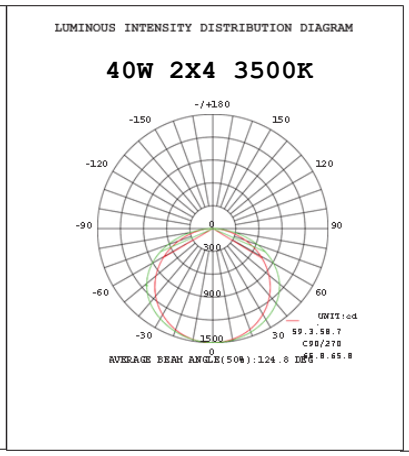
2X4 BACKLIT FLAT PANEL



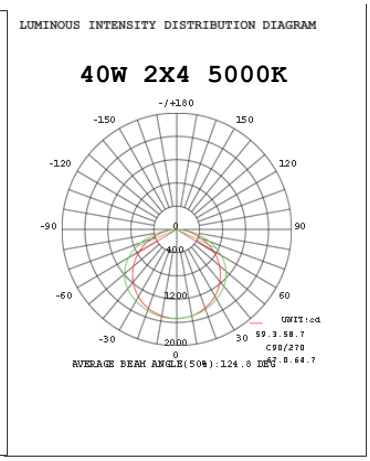
Average Beam Angle (50%) 124.8 DEG



Average Beam Angle (50%) 124.7 DEG



Average Beam Angle (50%) 124.8 DEG



Average Beam Angle (50%) 124.8 DEG

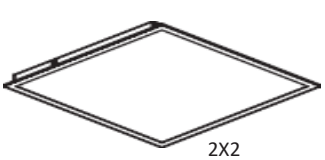
Installation Instruction

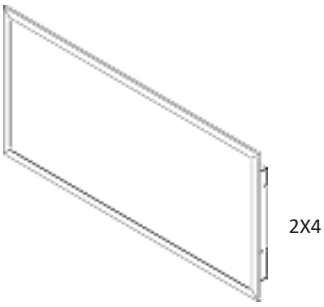
IMPROTANT

READ CAREFULLY BEFORE INSTALLING FIXTURE. RETAIN THESE INSTRUCTIONS FOR FUTURE REFEENCE.FIXTURES MUST BE WIRED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND ALL APPLCABLE LOCAL CODES. PROPER GROUNDING IS REQUIRED FOR SAFETY.THIS PRODUCT MUST BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE INSTALLATION CODE BY A PERSON FAMILIAR WITH THE CONSTRUCTION AND OPERATION OF THE PRODUCT AND THE HAZARDS INVOLVED

Warning : Make certain power is OFF before installing or maintaining fixture. No user

INSTRUCTIONS LED BACKLITE PANEL





SAFETY INSTRUCTIONS

WARNING: Risk of fire or electric shock. Suitable for damp locations

WARNING: Do not handle energized fixture when hands are wet, when standing on wet or damp surfaces, or in water

WARNING: Suitable for 9/16" or 15/16" Flat Tee Grid in both insulated ceilings and non -insulated ceilings.

Access above ceiling required.

WARNING: Vapor barrier must be suitable for 90° C.

WARNING: Fixture to be independently supported to building structure.

RECESSED CEILING MOUNTING

The Fixture is suitable only to INDOOR RECESSED CEILING application. Above ceiling access required. To mount in an insulated or non-insulated ceiling - 9/16" or 15/16" exposed Flat Tee Grid Ceiling follow the steps below

1. Firmly bend the pre-installed Grid Clips (up and out as shown in Fig. 1.
2. Rotate & slide the fixture as required to fit through the tree Grid Bar and place it as indicated by the directional arrow as shown in Fig. 2. Secure the Fixture to the Tee-Grid Bar
3. Support wires are required by installation codes. Support the Fixture to the building structure with Support Wires (supplied by others) through the Grid Clip Hole as shown in Fig. 3.
4. Make sure that the orientation of the Splice Box and Access Plate faces an accessible tile to make electrical splices.
5. Loosen Access Plate Screw and remove the Access Plate. Knock out appropriate Conduit Knockouts on the Access Plate to route input conduit. Use appropriate conduit connectors as required by code (Fig. 4).
6. Connect wires as shown in wiring diagram (FIG. 5). Push all wires back into the Splice Box. Use appropriate UL-approved wire connectors as required by code to complete wiring. Be careful not to pinch wires. WARNING: To prevent wiring damage or abrasion, do not expose wiring to edges of sheet metal or other sharp objects.
7. Replace Access Plate, and tighten Access Plate Screw

Fig.1

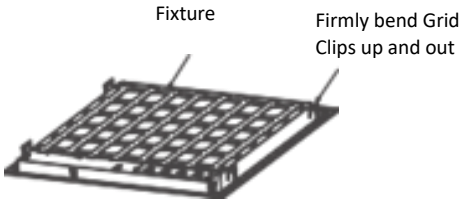


Fig.2

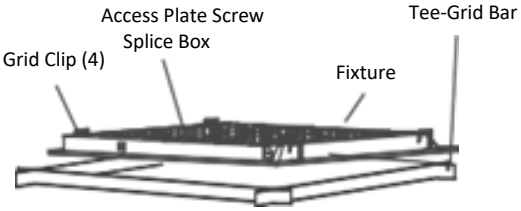


Fig.3

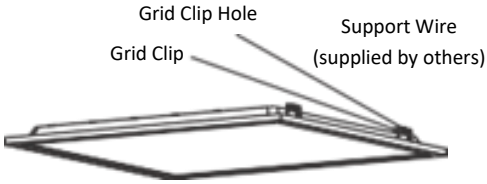
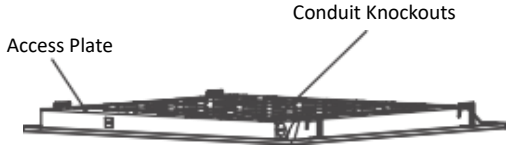


Fig.4



Installation Instruction

CLEANING & MAINTENANCE

Caution: Be sure fixture temperature is cool enough to touch
Do not clean or maintain while fixture is energized

1. Clean frosted polystyrene lens & fixture with non - abrasive cleaning solution
2. Do not open fixture to clean the LEDs. Do not touch the LEDs

TROUBLESHOOTING

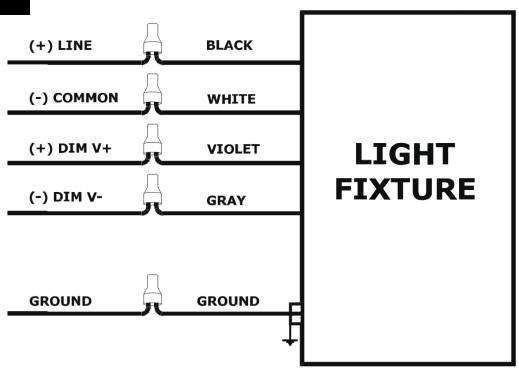
1. Check that line voltage at fixture is correct. Refer to wiring directions
2. Is the fixture grounded properly

WIRING INSTRUCTIONS

Fig.5

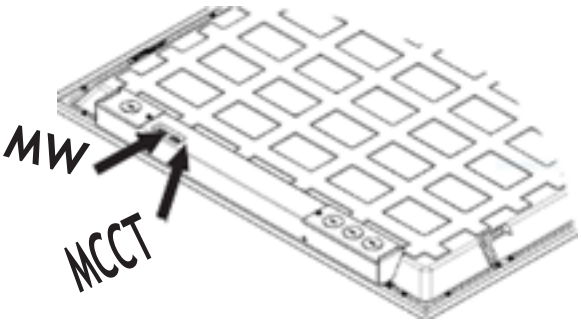
1. Connect the black fixture lead to the Line supply lead
2. Connect the white fixture lead to the COMMON supply lead
3. Connect the GROUND wire from fixture to supply ground

Fig.5

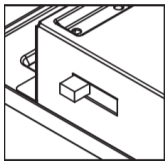


Schematic of Wattage Adjustment (3 set position) for Backlit Panel

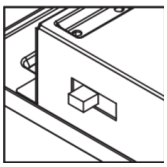
Model		Left Position	2nd Position (From left to right)	Right Position (default)
TK-BLFP1-22-30WWTCT	2x2	20W	25W	30W
TK-BLFP1-24-40WWTCT	2x4	28W	34W	40W



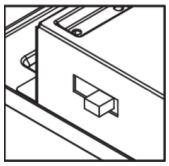
1. Set slip switch



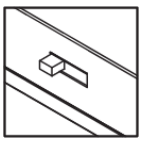
2. Set slip switch to 2nd position (from left to right)



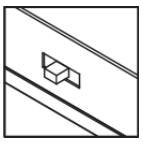
3. Set slip switch to right position



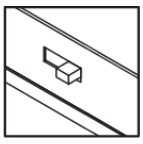
Schematic of CCT adjustment (3 set position)



1. When the slip switch is set to left position, it is 3500K



2. When the slip switch is set to center position, it is 4000K



3. When the slip switch is set to right position, it is 5000K

Note: These instructions do not cover all details or variations in equipment nor do they provide for every possible situation during installation, operation, or maintenance.

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