FREEFORM TBAR CEILING
24VDC REMOTE POWER, MATTE WHITE LENS OR DEEP CELL REFLECTOR

DESIGNED BY GREGORY KAY | ASSEMBLED IN AMERICA | USA PATENT PENDING

PURE EDGE LIGHTING

REV 10.19.21

DESCRIPTION

The T-Bar Ceiling FreeForm is made up of modular straight runs that allow you to create geometric shapes along the ceiling. "Design by numbers", 23", 24" and 48" Channel lengths gives you the ability to design with any freeform pattern that corresponds to the 2x2 or 2x4 Tbar drop ceiling grid, including the main T-Bar runner. FreeForm is offered in multiple color temperatures, including Tunable White. Choose from two finishes and a Matte White Low Glare Lens or Deep Cell Reflector. Power Supplies sold separately. For Custom Quotes, Design and Layout assistance email our design team design@PureEdgeLighting.com.

FEATURES & BENEFITS

- **Low Profile:** Less than 1" Square Channel
- **Remote Power Supply:** Class 2, up to 100 Watts before re-feeding
- **Beam spread:** Matte White lens - Diffused 60°, Deep Cell Reflector - Diffused 60°
- **Lengths:** 23", 24" and 48" straight runs
- **Wattage:** 7.5 Watts per foot
- **High Lumen Output:** Up to 846 lm/ft
- **Color Temperatures:** 27K, 30K, 35K, 40K, 57K and Tunable White (2700K-6500K)
- **High CRI:** 92+
- **Average life:** 50,000 hours
- **Easy Installation:** Class 2 wiring, no need for conduit, 50" 14 Gauge Teflon® cable with quick Wago on all power feed connectors. Approved for Plenum ceilings.

FINISHES

Satin Black **BK**	Satin Nickel **SN**	White **WH**

COMPONENTS (INCLUDED)

- Designer Grade High CRI LED Strip, installed to fit length
- Matte White Lens, White or Black Deep Cell Reflector
- Power Cables and Quick Jack Wago Connector

CHOOSE FROM 4 DIFFERENT TBAR CLIPS, 1 PER 2' (PGS 3-4)

- **TBA** - Fits 15/16" or 9/16" Wide T-Bar. Mounting Clips for Drop Ceiling Grid, where the panels are flush with the grid.
- **TBB** - Fits 15/16" or 9/16" Wide T-Bar. Mounting Clips for Drop Ceiling Grid, where the panels are lower than the Grid, includes a 3/8" Spacer.
- **TBE** - Fits 9/16" wide T-Bar Slot grid. Mounting Clips for Drop Ceiling Grid, where the panels are flush with the grid.
- **TBI** - Fits Armstrong Interlude™ T-Bar. Mounting Clips for Drop Ceiling Grid, where the panels are flush with the bottom of the grid.

REMOTE POWER SUPPLIES*, DIMMERS & CONTROLS (SOLD SEPARATELY)

- Universal Power Supply: Universal Dimming **(TRIAC, ELV, 0-10V)** with corresponding dimmer
- Lutron Hi-Lume®

*In-Wall Mounting Kits available for select power supplies

TUNABLE WHITE POWER SUPPLIES*

- **0-10V:** Requires two dimmers, one for intensity and one for kelvin color temperature
- **DMX:** Dynamic Color Changing use our proprietary Tunable White Controller CDMX-2XK

*In-Wall Mounting and drop ceiling Kits available for select power supplies

APPLICATIONS

Designed For Indoor Use Only - Architectural Lighting, Office, Retail, Commercial and Plenum Ceilings

WARRANTY / LABELS

5 year pro-rated warranty. ETL, Class 2, Damp Location, Made in USA.

PROJECT		FIXTURE TYPE		DATE	

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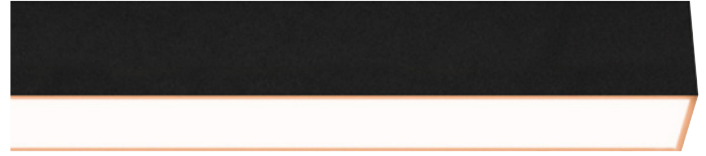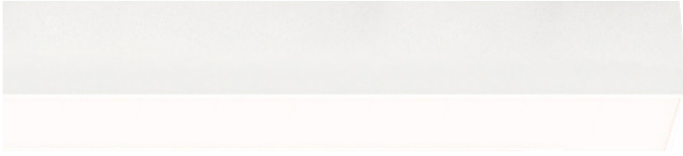# FREEFORM TBAR CEILING
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PURE EDGE
LIGHTING

FREEFORM MATTE WHITE LENS

Product	Wattage per Foot	Clips	Length	Color Temperature	Finish
CFMW	**7W**	**TBA**	**24**	**35K**	**WH**

CFMW Ceiling FreeForm with Matte White Low Glare Lens. Made for T-bar Ceilings grids with a quick connect feed-through and 50" of 18 gauge plenum rated power feed cables.

7W 7.5 watts

TBA Clips 15/16" or 9/16" Wide. Use with flush mounted ceiling panels
TBB Clips 15/16" or 9/16" Wide T-Bar. Use with ceiling panel 3/8" below grid
TBE Clips 9/16" wide T-Bar slot. Use with flush mounted ceiling panels
TBI Clips 9/16" with Armstrong Interlude™ T-Bar. Use with flush mounted ceiling panels.

23 23" Straight, 15W
24 24" Straight, 15W
48 48" Straight, 30W

27K 2700K Incandescent White
30K 3000K Warm White
35K 3500K Warm White, 90+CRI
40K 4000K Cool White, 90+ CRI
57K 5700K Daylight White
27K6 Tunable White 2700K-6500K

BK Black
WH White
SN Satin Nickel

FREEFORM DEEP CELL WITH REFLECTOR
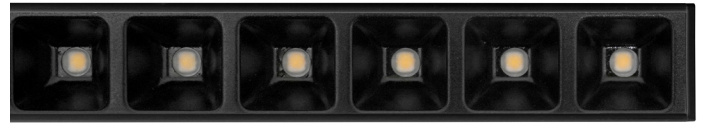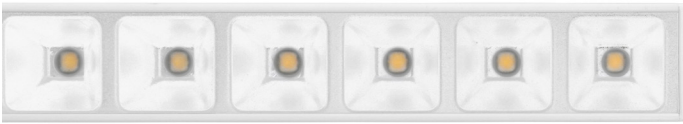
Deep Cell White Reflector, White Finish

Deep Cell, Black Reflector, Black Finish

Product	Wattage per Foot	Clips	Length	Color Temperature	Finish
CFDW	**7W**	**TBA**	**24**	**35K**	**WH**

CFDW Ceiling FreeForm Deep Cell with White Reflector. Made for T-bar Ceiling grids with a quick connect feed-through and 50" of 18 gauge plenum rated power feed cables.
CFDB Ceiling FreeForm Deep Cell with Black Reflector. Made for T-bar Ceilings grids with a quick connect feed-through and 50" of 18 gauge plenum rated power feed cables.

7W 7.5 watts

TBA Clips 15/16" or 9/16" Wide. Use with flush mounted ceiling panels
TBB Clips 15/16" or 9/16" Wide T-Bar. Use with ceiling panel 3/8" below grid
TBE Clips 9/16" wide T-Bar slot. Use with flush mounted ceiling panels
TBI Clips 9/16" with Armstrong Interlude™ T-Bar. Use with flush mounted ceiling panels

23 23" Straight, 15W
24 24" Straight, 15W
48 48" Straight, 30W

35K 3500K Warm White, 90+CRI
40K 4000K Cool White, 90+ CRI

BK Black
WH White

23"
(58.4cm)

24"
(61cm)

48"
(121.9cm)

0.8125"
(2.06cm)

1"
(2.5cm)

CFMW

0.8125"
(2.06cm)

1"
(2.5cm)
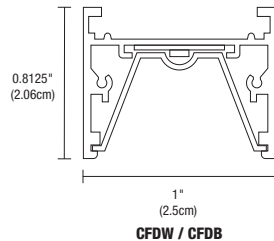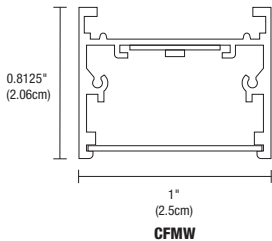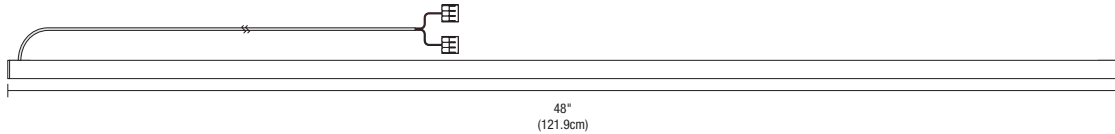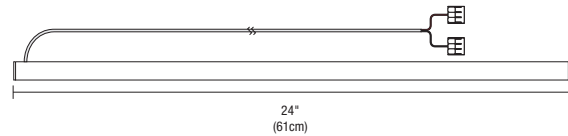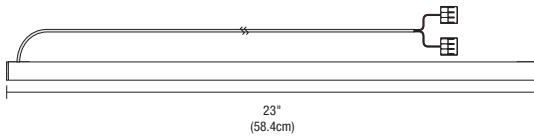
CFDW / CFDB

DESCRIPTION	CFMW	CFDW	CFDB
	DIFFUSED MATTE WHITE LENS, LOW BRIGHTNESS AT LENS	DEEP CELL WITH WHITE REFLECTORS, NO GLARE	DEEP CELL WITH BLACK REFLECTORS, NO GLARE, NO BRIGHTNESS AT FIXTURE
WATTS PER FOOT	7w (7.5 watts)	7w (7.5 watts)	7w (7.5 watts)
COLOR TEMPERATURE	35K	35K	35K
LUMENS PER FOOT (lm/ft)	505	768	578
LUMENS PER WATT (lm/w)	67	102	77
CRI	92	92+	90

PROJECT		FIXTURE TYPE		DATE	

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USA PATENT PENDING

**FREE FORM CONFIGURATIONS** - For Custom Quotes, Design and Layout assistance email our design team

TYPE	
A1	48"
B2	24"
C3	23"
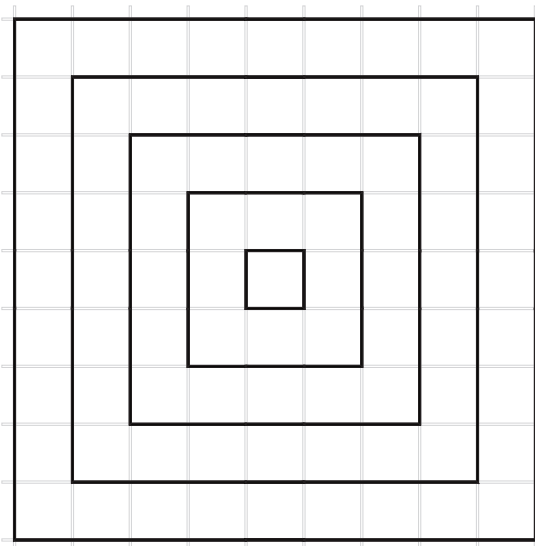
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FREEFORM TBAR CEILING
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DESIGN LIGHT BY NUMBERS

TYPE	
A1	48"
B2	24"
C3	23"

PROJECT		FIXTURE TYPE		DATE	

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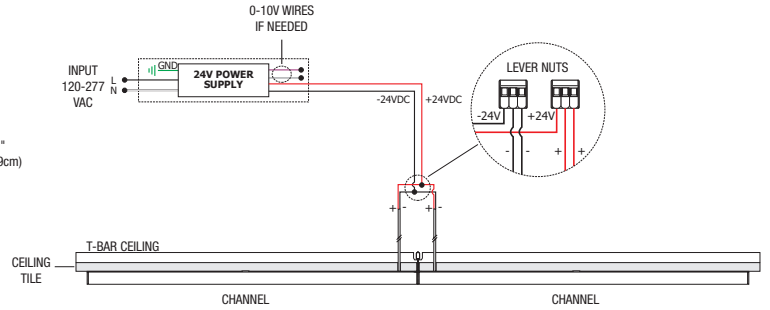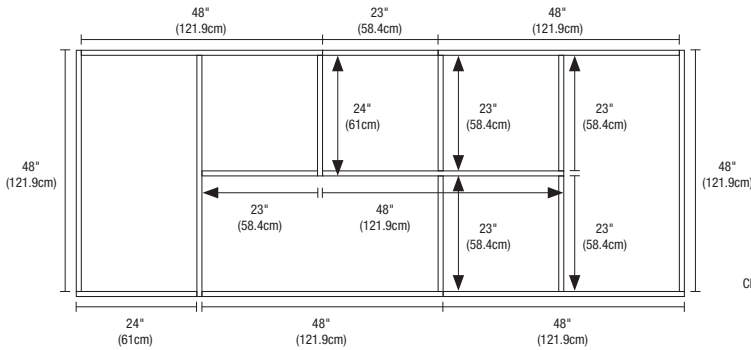For custom design and layout assistance, send drawings to design@PureEdgeLighting.com

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FREEFORM TBAR CEILING
24VDC REMOTE POWER, MATTE WHITE LENS OR DEEP CELL REFLECTOR

USA PATENT PENDING

B2
24"
(61cm)

A1
48"
(121.9cm)

C3
23"
(58.4cm)

23"
(58.4cm)

A1
48"
(121.9cm)

A1
48"
(121.9cm)

C3
23"
(58.4cm)

48"
(121.9cm)

B2
24"
(61cm)

24"
(61cm)

24"
(61cm)

48"
(121.9cm)

B2

A1
48"
(121.9cm)

48"
(121.9cm)

23"
(58.4cm) **C3**

48"
(121.9cm)

24"
(61cm) **B2**

48"
(121.9cm)

B2
24"
(61cm)

B2
24"
(61cm)

A1
48"
(121.9cm)

A1
48"
(121.9cm)

A1
48"
(121.9cm)

A1
48"
(121.9cm)

B2
24"
(61cm)

A1
48"
(121.9cm)

24"
(61cm)

48"
(121.9cm)

PROJECT		FIXTURE TYPE		DATE	

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FREEFORM TBAR CEILING
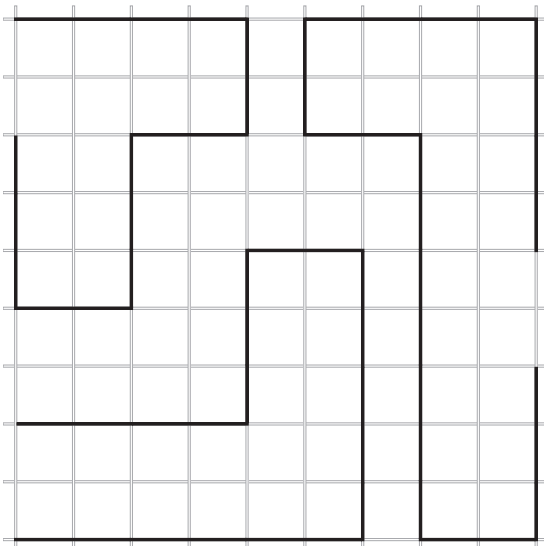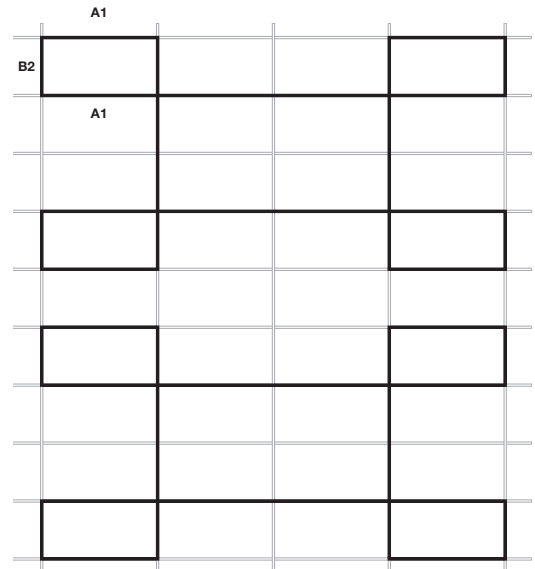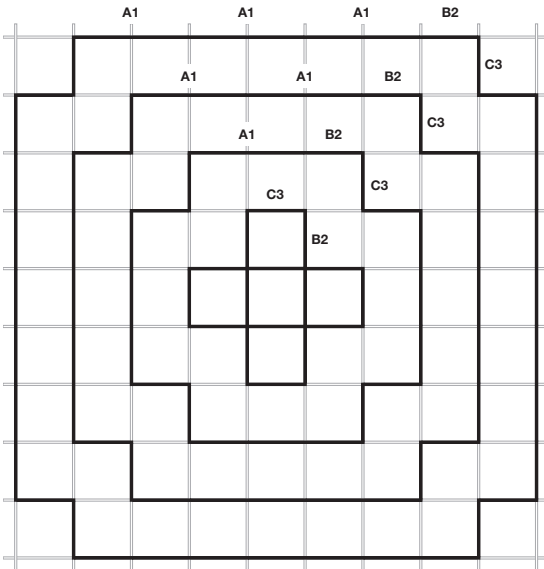## 24VDC REMOTE POWER, MATTE WHITE LENS OR DEEP CELL REFLECTOR

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PROJECT		FIXTURE TYPE		DATE	

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FREEFORM TBAR CEILING
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USA PATENT PENDING

PURE EDGE
LIGHTING

Diagram labels:
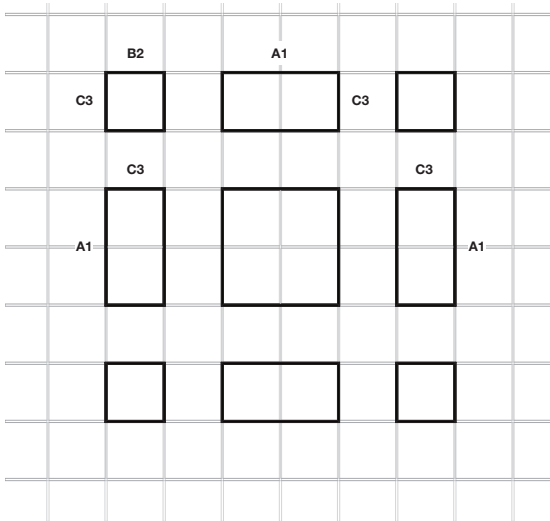
B2 24" (61cm)
B2 24" (61cm)
A1 48" (121.9cm)
A1 48" (121.9cm)

B2 24" (61cm)
A1 48" (121.9cm)
B2 24" (61cm)
A1 48" (121.9cm)

A1 48" (121.9cm)
A1 48" (121.9cm)
A1 48" (121.9cm)
B2 24" (61cm)

A1 48" (121.9cm)
B2 24" (61cm)
A1 48" (121.9cm)
A1 48" (121.9cm)
A1 48" (121.9cm)

B2 24" (61cm)
B2 24" (61cm)

B2 24" (61cm)
48" (121.9cm)
48" (121.9cm)

B2 24" (61cm)
A1
A1 48" (121.9cm)
A1
A1 48" (121.9cm)
A1 48" (121.9cm)

A1 48" (121.9cm)
A1 48" (121.9cm)

| PROJECT | | FIXTURE TYPE | | DATE | |

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USA PATENT PENDING

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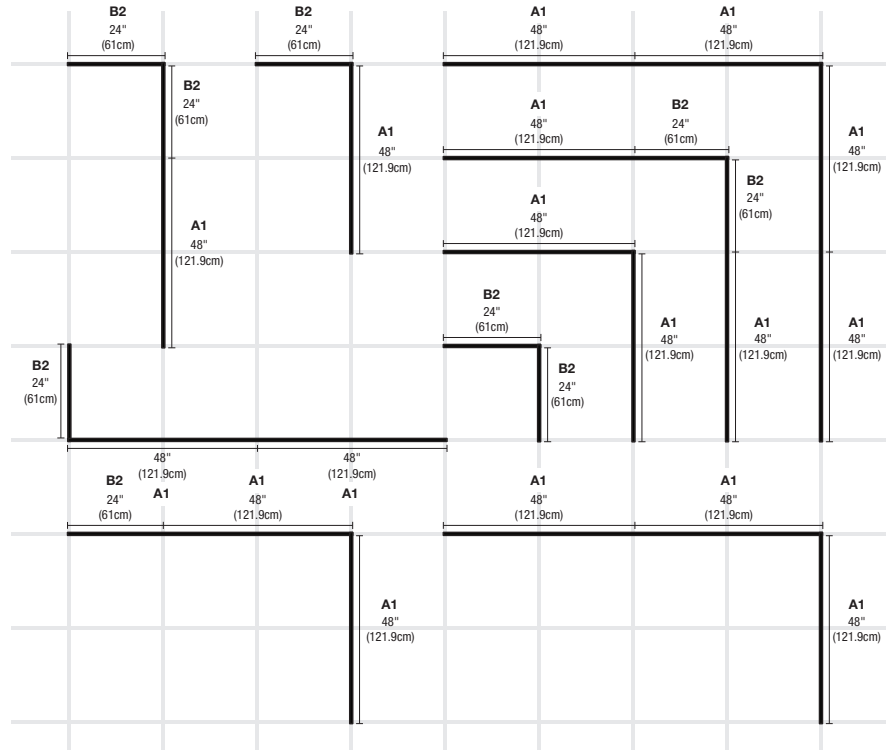
COMPONENTS Connectors, End Cap, & Mounting Clips

TBA

1.05"
(2.7cm)

0.33"
(0.8cm)

0.75"
(1.9cm)

TBA

0.22"
(0.6cm)

0.75"
(1.9cm)

15/16" TBAR

Ceiling Panel

3/8"

Channel

Cirrus T-Bar Clip
CCD1M-MCL-TBB
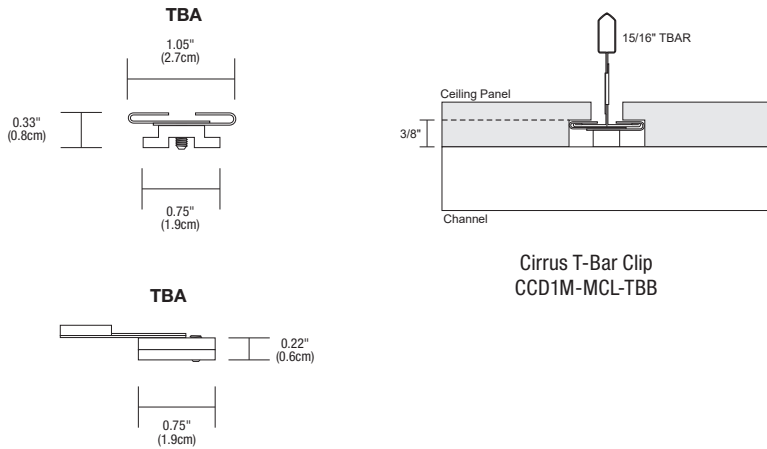
CEILING MOUNTING T-BAR CLIPS FOR 15/16" AND 9/15" CEILING GRID

Mounts flush anywhere along the 15/16" or 9/16" T-Bar grid. One clip included with every two feet of channel, order additional clips if needed.

System		Canopy		Type		Finish
FFC	–	**MCL**	–	**TBA**	–	**WH**

FFC FreeForm Ceiling **MCL** Mounting Clip

TBA 15/16" or 9/16" Wide T-Bar Flush mounted ceiling panels
TBB 15/16" or 9/16" wide T-Bar with ceiling panel 3/8" below grid and channel going over dropped panel

WH White
BK Black

TBAR SLOT

0.22"
(0.6cm)

9/16"
(1.4cm)

0.27"
(0.7cm)

0.8"
(2cm)

0.27"
(0.7cm)

3.5"
(8.9cm)
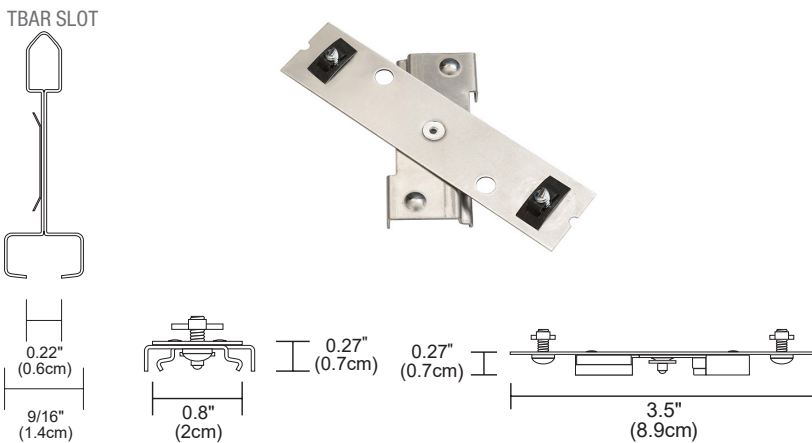
T-BAR SLOT MOUNTING CLIP

Mounts flush anywhere along the 9/16" T-Bar grid. One clip included with every two feet of channel, order additional clips if needed.

System		Canopy		Type
FFC	–	**MCL**	–	**TBE**

FFC FreeForm Ceiling **MCL** Mounting Clip **TBE** T-Bar Slot

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ARMSTRONG®
INTERLUDE XL HRC

9/16"
(1.4cm)

0.63"
(1.6cm)

1.38"
(3.5cm)

0.5"
(1.3cm)

0.63"
(1.6cm)

0.6"
(1.5cm)

0.6"
(1.5cm)

0.75"
(1.9cm)

ARMSTRONG®
INTERLUDE XL HRC

Ceiling Panel

Channel

MIDDLE OF PANELS

ARMSTRONG®
INTERLUDE XL HRC

Ceiling Panel
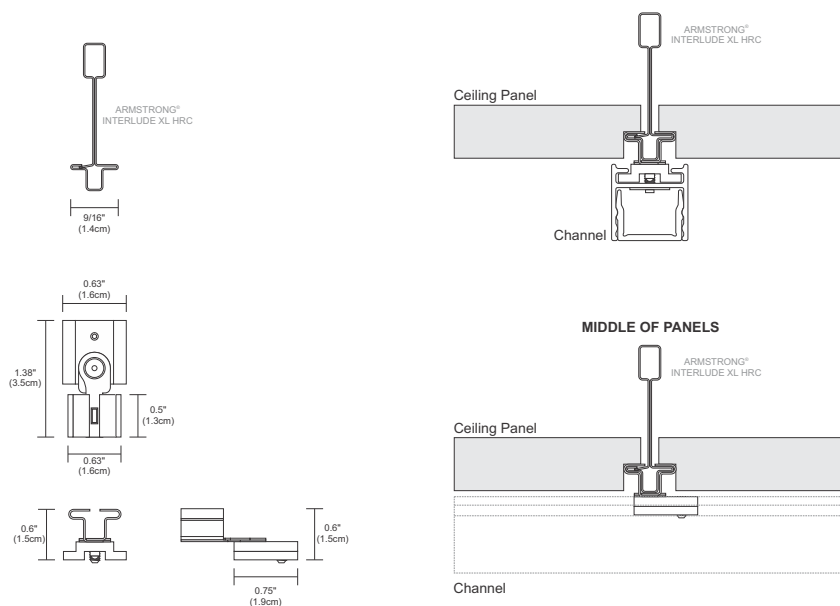
Channel

T-BAR CLIP FOR ARMSTRONG™ INTERLUDE

Mounts flush anywhere along the 9/16" T-Bar grid. One clip included with every two feet of channel, order additional clips if needed.

System		Canopy		Type		Finish
FFC	–	**MCL**	–	**TBI**	–	**WH**

FFC FreeForm Ceiling **MCL** Mounting Clip **TBI** T-Bar Clip **WH** White
BK Black

PROJECT		FIXTURE TYPE		DATE	

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INDOOR CONSTANT VOLTAGE REMOTE POWER SUPPLIES
24VDC, UNIVERSAL DIMMING WITH ELV, TRIAC, & 0-10V FOR STATIC WHITE, WARM DIM

PURE EDGE LIGHTING

REV 10.19.21

UNIVERSAL POWER SUPPLIES & RECOMMENDED DIMMERS			
ORDERING CODE	PSB-40W-UNI-24VDC	PSB-60W-UNI-24VDC	PSB-2X40W-UNI-24VDC	PSB-2X60W-UNI-24VDC

SPECIFICATIONS			
MAXIMUM LOAD	40W	60W	2X40W	2X60W
INPUT VOLTAGE	120-277VAC	120-277VAC	120-277VAC	120-277VAC
OUTPUT VOLTAGE	24VDC	24VDC	24VDC	24VDC
DIMENSIONS	12.4" X 3.12" X 2.18"	12.4" X 3.12" X 2.18"	12.15" X 6.48" X 2.18"	12.15" X 6.48" X 2.18"
CLASSIFICATION	CLASS 2	CLASS 2	CLASS 2	CLASS 2
T-BAR MOUNTING	PSB-40W-UNI-24VDC-TB	PSB-60W-UNI-24VDC-TB	PSB-2X40W-UNI-24VDC-TB	PSB-2X60W-UNI-24VDC-TB
IN-WALL MOUNTING	PSB-40W-UNI-24VDC-IW	PSB-60W-UNI-24VDC-IW	PSB-2X40W-UNI-24VDC-IW	PSB-2X60W-UNI-24VDC-IW

UNIVERSAL POWER SUPPLIES & RECOMMENDED DIMMERS			
ORDERING CODE	PSB-96W-UNI-24VDC	PSB-2X96W-UNI-24VDC	PSB-3X96W-UNI-24VDC	PSB-4X96W-UNI-24VDC

SPECIFICATIONS			
MAXIMUM LOAD	96W	2X96W	3X96W	4X96W
INPUT VOLTAGE	120-277VAC	120-277VAC	120-277VAC	120-277VAC
OUTPUT VOLTAGE	24VDC	24VDC	24VDC	24VDC
DIMENSIONS	12.4" X 3.12" X 2.18"	12.15" X 6.48" X 2.18"	14" X 10" X 3"	17" X 13" X 3"
CLASSIFICATION	CLASS 2	CLASS 2	CLASS 2	CLASS 2
T-BAR MOUNTING	PSB-96W-UNI-24VDC-TB	PSB-2X96W-UNI-24VDC-TB	PSB-3X96W-UNI-24VDC-TB	PSB-4X96W-UNI-24VDC-TB
IN-WALL MOUNTING	PSB-96W-UNI-24VDC-IW	PSB-2X96W-UNI-24VDC-IW	NA	NA

ELV DIMMING & CONTROLS			
LUTRON DIVA: DVELV-300P	•	•	•	•
LUTRON SKYLARK: SELV-300P	•	•	•	•
LUTRON RADIO RA2: RRD-6NA	•	•	•	•
LUTRON MAESTRO: MAELV-600	•	•	•	•
LEGRAND ADORNE: ADTP-703TUM4	•	•	•	•

0-10 DIMMING & CONTROLS			
PHILIPS SUNRISE: SR1200ZTUNV	•	•	•	•
LUTRON DIVA: DVTV-WH, DVSTV-WH	•	•	•	•
LUTRON NOVA T: NTSTV-DV-XX	•	•	•	•
LUTRON GRAFIX EYE QS: QSGRJ-XP	•	•	•	•
LUTRON RADIO RA2: RRD-10ND	•	•	•	•
LEVITON: LEV40050	•	•	•	•
LEVITON IP710-LFZ	•	•	•	•
LEGRAND: ADPD4FBL3P2W4	•	•	•	•

TRIAC DIMMING & CONTROLS			
LUTRON SKYLARK: S2-L-WH	•	•	•	•
LUTRON DIVA DVLV-600P-WH	•	•	•	•
LUTRON DIVA DVLV-603P-WH	•	•	•	•
LUTRON MAESTRO MALV-600-WH	•	•	•	•
LUTRON MAESTRO MALV-1000-WH	•	•	•	•
LUTRON MAESTRO MA-R-XX	•	•	•	•

- Flicker free dimming
- Aluminum casing for optimal heat dissipation
- Isolated output power per NEC and UL safety requirements
- UL & ETL recognized/ listed, meets UL 8750, 1310 requirements
- Auto-reset; short circuit, overload and thermal protection
- Class 2 power supply
- Efficient, High power factor > 0.90

*Title 24 with JA8 listed PureEdge products and systems

*Tunable White requires Dual power Supplies and Controls. For single control use with our proprietary Tunable White Controller CDMX-1, refer to Universal Tunable White Power Supply Specifications. Up + Down Light fixtures and Systems can be controlled individually or together depending on the power supply selection.

- The Solid State Constant Voltage Uni-Power Supply is compatible with most commercially available Dimmers:
  - Triac Dimmer: (Forward Phase) Typically used for the dimming of Incandescent and Low Voltage Magnetic Transformers
  - ELV Dimmer: (Reverse Phase) Dimming of Electronic Low Voltage Transformers and Power Supplies used for LED lighting
  - 0-10 Dimmer : Dims the Low Voltage side of a 0-10 volt power supply commonly used in large scale lighting or commercial applications.
- The Uni-Power Supply is recommended with any Siemens/Murray brand of arc fault breaker to overcome the issues with tripping the breakers with an ELV LED Low Voltage Drivers.
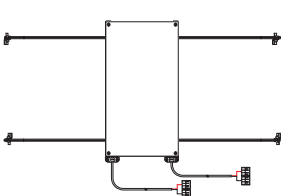
T-BAR Mounting Kit: Includes power supply, box cover, and T-bar hangers for installing Junction Box above ceiling with in easy reach. Comes with 4' of 14 gauge pair Teflon cables with quick secure connectors.

Ordering Codes : PSB-40W-UNI-24VDC-TB, PSB-60W-UNI-24VDC-TB, PSB-96W-UNI-24VDC-TB, PSB-2X40W-UNI-24VDC-TB, PSB-2X60W-UNI-24VDC-TB, PSB-2X96W-UNI-24VDC-TB, PSB-3X96W-UNI-24VDC-TB, PSB-4X96W-UNI-24VDC-TB
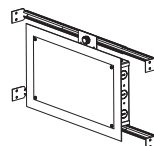
In-Wall Mounting Kit: Includes power supply, box cover and stud hangers for installing Junction Box in wall. Select "IW" in the options section of compatible power supply ordering codes if an In-Wall Mounting Kit is needed.

Ordering Codes 5.1" x 14.25": PSB-40W-UNI-24VDC-IW, PSB-60W-UNI-24VDC-IW, PSB-96W-UNI-24VDC-IW

Ordering Codes 8.5" x 14.25": PSB-2X40W-UNI-24VDC-IW, PSB-2X60W-UNI-24VDC-IW, PSB-2X96W-UNI-24VDC-IW

PROJECT		FIXTURE TYPE		DATE	

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INDOOR CONSTANT VOLTAGE REMOTE POWER SUPPLIES
24VDC, UNIVERSAL DIMMING WITH ELV, TRIAC, & 0-10V FOR STATIC WHITE, WARM DIM

WIRING DIAGRAMS UNIVERSAL POWER SUPPLY

Application: ELV dimming for Static White and Warm Dim

Dimming: Dimmable with ELV dimmer: Legrand, Adorne ADTP703TU; Lutron: Diva DVELV-300P, Skylark SELV-300P, Maestro MAELV-600 and Radio Ra 2
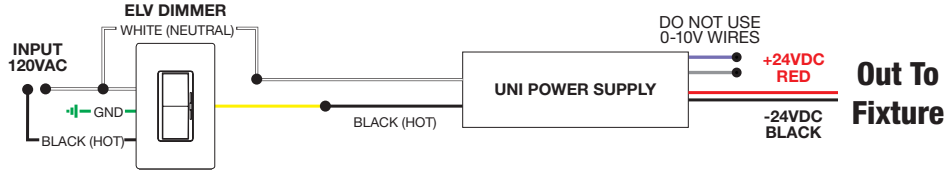
Application: 0-10V dimming for Static White

Dimming: Dimmable with 0-10V dimmer: Philips Sunrise: SR1200ZTUNV; Lutron Diva: DVTV-WH, DVSTV-WH; Lutron Nova T: NTSTV-DV-XX; Lutron Grafix EYE QS: QSGRJ-XP; Lutron Radio Ra2: RRD-10ND; Leviton: LEV40050; Leviton IP710-LFZ; Legrand: ADPD4FBL3P2W4
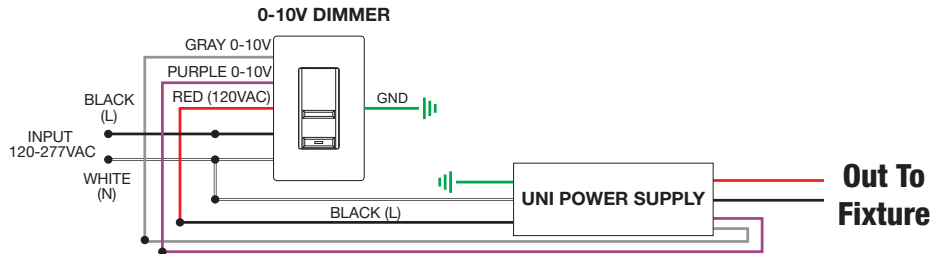
Application: Triac dimming for two power supplies, use for Static White

Dimming: Dimmable with Triac dimmer: Lutron: Skylark S2-L

PROJECT		FIXTURE TYPE		DATE	

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INDOOR CONSTANT VOLTAGE REMOTE POWER SUPPLIES
24VDC, LUTRON ECOSYSTEM
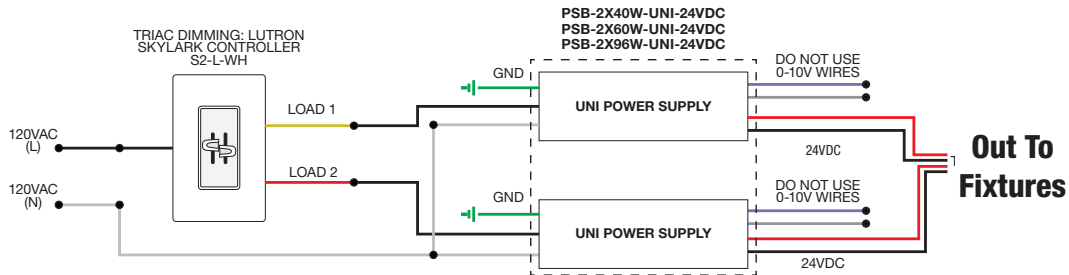
LUTRON HI-LUME® PREMIER .1% ECOSYSTEM®†		
ORDERING CODES	**L3D0-96W24V-U**	**2-WIRE ECOSYSTEM LTEA4U1UKL-CV240**	**3-WIRE ECOSYSTEM L3DA4U1UKL-CV240**

| SPECIFICATIONS			
MAXIMUM LOAD	96W	5W-40W	5W-40W
INPUT VOLTAGE	120-277VAC	120-277VAC	120-277VAC
OUTPUT VOLTAGE	24VDC	24VDC	24VDC
DIMENSIONS	10.5" X 5.5" X 2"	4" X 4.89" X 2.62"	4" X 4.89" X 2.62"
CLASSIFICATION	CLASS 2	CLASS 2	CLASS 2
T-BAR MOUNTING	L3D0-96W24V-U-TB	NA	NA

DIMMING AND CONTROLS			
RADIO RA2	•	•	•
HOMEWORKS QS	•	•	•
PHPM-3F-120	•	•	•
PHPM-3F-DV	•	•	•
BCI-0-10	•	•	•

†22K - 57K color temperatures are compatible with 0-10V, ELV, and Lutron Hi-lume® Power Supplies.

*Title 24 compliant when used with JA8 listed PureEdge systems.

WIRING DIAGRAM FOR LTEA4U1UKL-CV240 OR L3D0-96W24V-U ECOSYSTEM DIGITAL LINK
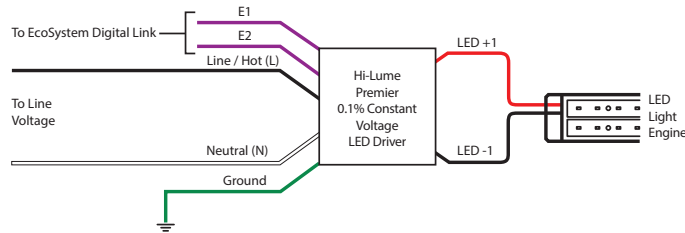
COMPATIBLE DIMMERS FOR LTEA4U1UKL-CV240 OR L3D0-96W24V-U ECOSYSTEM DIGITAL LINK

Product	Model Number		Drivers Per Control	Recommended System Version[2]
	120V	**277V**		
PowPak Dimming Module with EcoSystem	RMJ-ECO32-DV-B URMJ-ECO32-DVB		32 Per EcoSystem link	5.9 or Higher
PowPak Wireless Fixture Control with EcoSystem[1]	FJC-ECO FJCS-ECO		3 Per EcoSystem link	0796554 or Higher
Energi Savr Node unit with EcoSystem	QSN-1ECO-S, QSN-2ECO-S, QSN-2ECO-PS120, UQSN-1ECO-S, UQSN-2ECO-S,		64 Per EcoSystem link	9.027 or Higher
GRAFIK Eye QS unit with EcoSystem	QSGRJ-_E- QSGR-_E-	-	64 Per EcoSystem link	9.009 or Higher
Quantum Light Management Hub	AYF-103P-	-	64 Per EcoSystem link	3.2 or Higher[3]
Homeworks QS with EcoSystem	LQSE-2ECO-D- QSGRJ-_E- QSGR-_E-	-	64 Per EcoSystem link	10 or Higher[4]

1: All devices connected to one PowPak Wireless Fixture Control will be controlled together. Devices will dim to the same level as the result of a control command. The wireless fixture control will need to have it's low end level reprogrammed to dim to 0.1% output. For more details on adjusting low end light level refer to Application Note #556 at www.Lutron.com
2: For lower system versions please visit www.Lutron.com/LEDsystemcheck to check if your system requires changes
3: Version 3.1 (or later) is required to dim lower than 1%
4: Version 7.0 (or later) is required to dim lower than 1%

PROJECT		FIXTURE TYPE		DATE	

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REV 10.19.21

WIRING DIAGRAM FOR
L3DA4U1UKL-CV240 OR L3D0-96W24V-U
3-WIRE
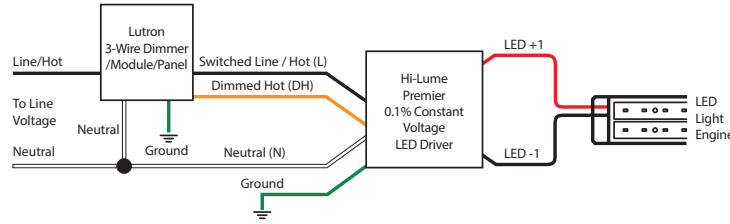
COMPATIBLE DIMMERS FOR
L3DA4U1UKL-CV240 OR L3D0-96W24V-U
3-WIRE

| Product	Model Number		Drivers Per Control[1]		Load Type	Product
	120V	277V	120V	277V		
NOVA T★ Dimmer	NTF-10-	NTF-10-277-	1-16	1-19	-	-
	NTF-103P-	NTF-103P-277-	1-8	1-14		
NOVA Dimmer	NF-10-	NF-10-277-	1-16	1-19	-	-
	NF-103P-	NF-103P-277-	1-8	1-14		
Diva Dimmers	DVF-10P-	DVF-10P-277	1-8	1-14	-	-
	DVSCF-103P-	DVSCF-103P-277	1-8	1-14		
Skylark Dimmer	SF-10P-	SF-12P-277-	1-8	1-14	-	-
	SF-103P-	SF-12P-277-3-	1-8	1-14		
Ariadni Dimmer	AYF-103P-	AYF-103P-277	1-8	1-14	-	-
Maestro Dimmer	MAF-6AM-	MAF-6AM-277	1-6	1-14	-	-
	MSCF-6AM-	MSCF-6AM-277	1-6	1-14		
Maestro Wireless Dimmer	MRF2-F6AN-DV-		1-6	1-14	-	-
RadioRA2 Dimmer	RRD-F6AN-DV-		1-6	1-14	Dual Voltage 3-Wire Dimmer	21%[3]
Homeworks QS Dimmer	HQRD-F6AN-DV-		1-6	1-14	Fluorescent 3-Wire LED 3-Wire	21%[3]
Interfaces[2]	PHPM-3F-120-	-	1-16	-	-	-
	PHPM-3F-DV-		1-16	1-38		
	BCI-0-10		1-16	1-38		
GP Dimming Panels	Various		1-16	1-38	2-1	

1: No derating required in multi-gang applications provided fixture count does not exceed the quantity listed
2: Please refer to interface specification sheet for compatible system list
3: Trim level allows the ability to get down to 0.1% but might result in dead travel for 1%-4% on user interface for some installations. In this instance 22% trim
   level could be used to avoid dead travel but might result in >0.1% dim level.
4: Soft-On, Fade-To-Black technology no available with 3 wire controls
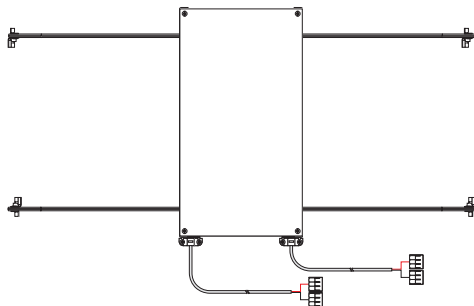
T-BAR Mounting Kit: Includes power supply, box cover, and T-bar hangers for installing Junction Box above ceiling with in easy reach. Comes with 4ft of 14 gauge pair Teflon cables with quick secure connectors.

Ordering Code: L3D0-96W24V-U-TB

PROJECT		FIXTURE TYPE		DATE	

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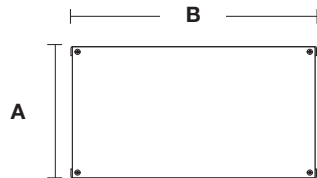# INDOOR TUNABLE WHITE 0-10V 96 WATT LED POWER SUPPLY
24VDC INDOOR CONSTANT VOLTAGE, TWO CHANNEL CONTROLS, FOR INTENSITY AND COLOR TEMPERATURE
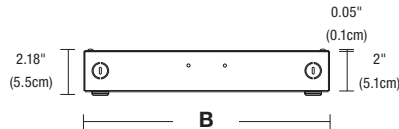
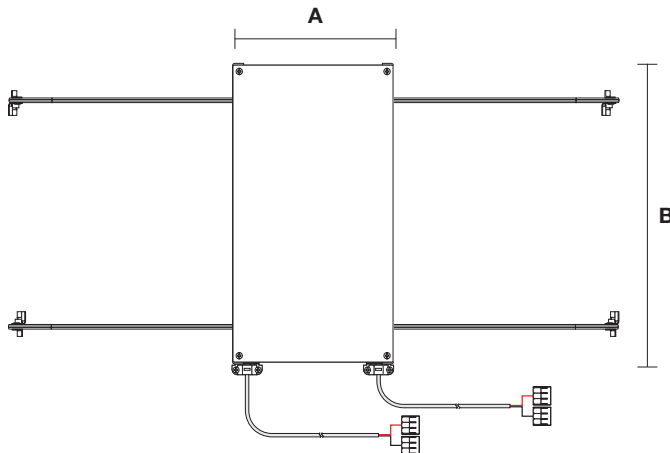DESIGNED BY GREGORY KAY | ASSEMBLED IN AMERICA

REV 10.19.21

PURE EDGE
LIGHTING

PSB-96W-010-24VDC-2XK

TOP VIEW

B

A

0.05"
(0.1cm)

2.18"
(5.5cm)

2"
(5.1cm)

B

SIDE VIEW

PSB-96W-010-24VDC-2XK-TB
(T-BAR GRID CEILING)

DESCRIPTION
Accepts input voltage in a range of 120 - 277VAC and outputs 24VDC power up to 96 watts. The low voltage output dims down to 1% when two additional wires are connected to a 0-10V dimmer. The enclosure provides a space inside for electrical connections. In-Wall Power Supply Kit includes power supply, box cover and stud hangers. T-Bar Mounting Kit includes power supply, box cover, and T-bar hangers for installing Junction Box above ceiling with in easy reach. Comes with 4' of 14 gauge pair Teflon cables with quick secure connectors. Power Supply features short circuit, overload and over temperature protection.

APPLICATIONS
Indoor, Damp Location

MOUNTING
Surface mounted with conduit access

POWER INPUT
120-277VAC

POWER OUTPUT
Class 2; 24 volts DC 4A, up to 96 watts maximum

EFFICIENCY
90%

AMBIENT OPERATING TEMPERATURE
-25° C to 40° C

DIMMING
#1 Controls the intensity. #2 Controls the Color Temperature.
0-10V (dimmer needs to be capable to dim to 0% without ON/OFF switch)

DIMMING CURVE
Linear, Logarithmic 100% - 0% (HydraDrive)

COMPLIANCE
Made in the USA, UL, CE, Title 24
*Title 24 with JA8 listed PureEdge products and systems

Product		Wattage		Dimming		Voltage		Color Temperature		Options	
PSB		**96W**		**010**		**24VDC**		**2XK**		STANDARD (Leave Blank)	
PSB	Power Supply with Enclosure Box with Tunable White 0-10V Controller	96W	96 Watts	010	0-10 Volt Dimming	24VDC	24 Volt DC	2XK	Tunable White	TB	T-Bar Grid Ceiling
		2X96W	2x96 Watts							IW*	In-Wall Kit
		3X96W	3x96 Watts								
		4X96W	4x96 Watts							*96 watts only	

STANDARD & T-BAR DIMENSIONS
	A	B
PSB-96W-010-24VDC-2XK	6.48"	12.15"
PSB-2X96W-010-24VDC-2XK	10"	14"
PSB-3X96W-010-24VDC-2XK	13"	17"
PSB-4X96W-010-24VDC-2XK	13"	17"

PSB-96W-010-24VDC-2XK-IW

PSB-96W-010-24VDC-2XK-IW (IN WALL KIT)

IN-WALL DIMENSIONS
	A	B
PSB-96W-010-24VDC-2XK-IW	8.5"	14.25"

PROJECT		FIXTURE TYPE		DATE	

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INDOOR TUNABLE WHITE 0-10V 96 WATT LED POWER SUPPLY

24VDC INDOOR CONSTANT VOLTAGE, TWO CHANNEL CONTROLS, FOR INTENSITY AND COLOR TEMPERATURE

PURE EDGE LIGHTING

REV 10.19.21

Application: 0-10V dimming for Tunable White LED Strip/Fixture

TUNABLE WHITE STRIP/ FIXTURE

RED
BLACK
BLACK
RED

WARM+ YELLOW
VIN1+ RED
VIN1- BLACK
WARM- BLUE
COOL- BLUE
VIN2- BLACK
VIN2+ RED
COOL+ YELLOW

Tunable White LED PWM dimming module
Dimming range: 0-100%
0/1-10V control 1, 0/1V=0% light output
10V=100% light output
0/1-10V control2, 0/1V=100% warm
10V=100% cool
PWM Output to LED Modules (8-48V PWM, 1K Hz)

COLOR TEMP — PURPLE +
GRAY -
GRAY -
INTENSITY — PURPLE +

24VDC+
24VDC-

24V POWER SUPPLY

INPUT:
120-277V AC
L
N
GND

PSB-96W-010-24VDC-2XK

0-10V Controller
Control Input 1
(Dimming **Intensity**)

0-10V Controller
Control Input 2
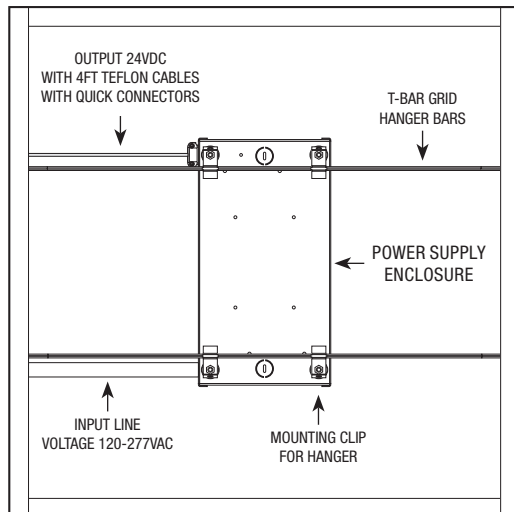(For **Color Temp**)

T-BAR GRID CEILING

OUTPUT 24VDC
WITH 4FT TEFLON CABLES
WITH QUICK CONNECTORS

T-BAR GRID
HANGER BARS

POWER SUPPLY
ENCLOSURE

INPUT LINE
VOLTAGE 120-277VAC

MOUNTING CLIP
FOR HANGER

PSB-96W-010-24VDC-2XK-TB

IN WALL KIT

LINE
VOLTAGE
INPUT
120-277VAC

HANGER
BARS

DRYWALL

CLASS 2
OUTPUT
24VDC

96W IN-WALL
POWER SUPPLY KIT

COVER

2X4 STUD

POWER
SUPPLY
ENCLOSURE

PSB-96W-010-24VDC-2XK-IW

PROJECT		FIXTURE TYPE		DATE	

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TUNABLE WHITE DMX CONTROLLER AND POWER SUPPLIES
24VDC INDOOR CONSTANT VOLTAGE POWER SUPPLIES WITH DRIVERS

PURE EDGE LIGHTING
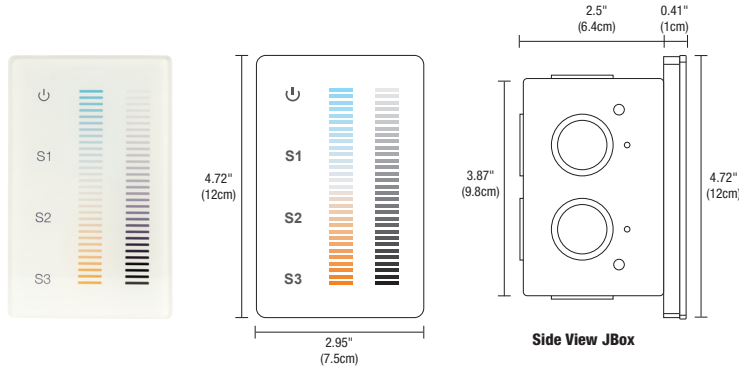
DESCRIPTION:
The Tunable White Touch Controller offers fast and accurate Color Temperature adjustment and the ability to regulate the Brightness Independently. The modern Glass faceplate features illuminated indicators, and a back-lit night light that softly illuminates the controller when powered off. Designed for Tunable White, and dual-color LED installations within a single zone. The two Vertical Touch sliders are precise and sensitive, allowing you to fine-tune your perfect Color Temperature at any point between **2000K** (Sunset) to **6500K** (Daylight White) while selecting over 250 levels of Brightness in a smooth, uninterrupted transition. Create Thousands of White Color Combinations while maintaining even Brightness and overall saturation. Easily save three pre-set scenes for different times of the day. Support health, performance, and general well-being using Human-Centric lighting by fine-tuning the biological effects that light has on the circadian cycle using the latest in LED technology. Includes a power adapter that fits behind the controller within a standard junction box and fits inside a standard single-gang receptacle (not for use in a multi-gang box). Use with an insulated, 24 AWG stranded, tinned copper wire (Belden #9841). Power Supplies are Sold Separately. Includes a 5 year pro-rated warranty.

APPLICATIONS:
Indoor

INSTALLATION:
Fits in a single gang 2.5" deep junction box. Not compatible with multi-gang boxes.

POWER INPUT:
120-240VAC

OUTPUT SIGNAL:
USITT DMX 512 (1990)

LABELS:
ROHS, FCC, Damp Location, ETL/UL

Controller power adapter (Included)
Fits in a single gang 2.5" deep junction box

CDMX1-2XK-WH

120-240VAC
DMX CABLE (BELDEN #9841)

120-277V
N

PSB-100W-24VDC-2XK (Sold Separately)

Tunable White Power Supply
-24VDC
+24VDC

GND

DRIVER

To Fixture

DMX data to next power/data supply

Controller Power Adapter

Side View JBox

Product		Type	Finish
CDMX1	–	**2XK**	**WH**
CDMX1 DMX Single Zone Touch Controller		2XK Tunable White	WH White
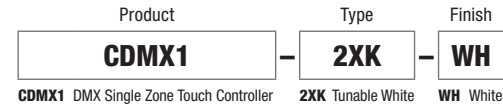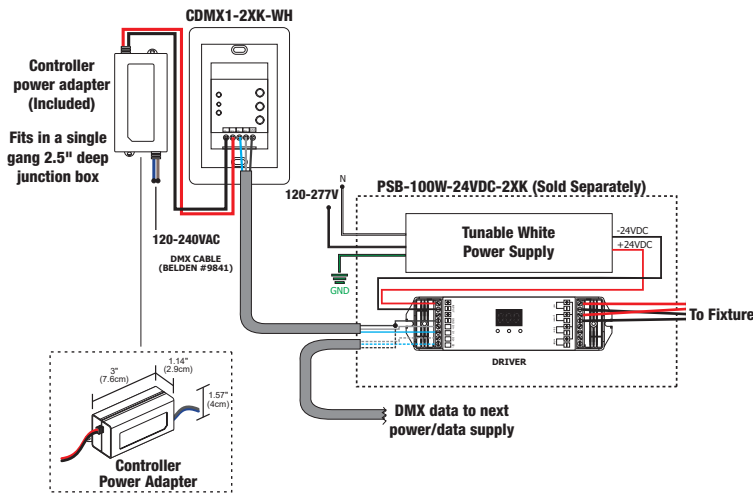
## COLOR CHANGING (DMX) POWER SUPPLIES

ORDERING CODE	PSB-100W-24VDC-2XK	PSB-2X100W-24VDC-2XK	PSB-3X100W-24VDC-2XK	PSB-4X100W-24VDC-2XK

SPECIFICATIONS

	PSB-100W-24VDC-2XK	PSB-2X100W-24VDC-2XK	PSB-3X100W-24VDC-2XK	PSB-4X100W-24VDC-2XK
MAXIMUM LOAD OF LED STRIP LENGTH	100W 5 WATTS - 20FT MAX. 10 WATTS - 10FT MAX.	2X100W 5 WATTS 2 X 20FT MAX. 10 WATTS - 2 X 10FT MAX.	3X100W 5 WATTS 3 X 20FT MAX. 10 WATTS - 3 X 10FT MAX.	4X100W 5 WATTS 4 X 20FT MAX. 10 WATTS - 4 X 10FT MAX.
INPUT VOLTAGE	120-277VAC	120-277VAC	120-277VAC	120-277VAC
OUTPUT VOLTAGE	24VDC	24VDC	24VDC	24VDC
DIMENSIONS	12.4" X 6.48" X 2.18"	14" X 10" X 3"	17" X 10" X 3"	17" X 10" X 3"
CLASSIFICATION	CLASS 2	CLASS 2	CLASS 2	CLASS 2
T-BAR MOUNTING	PSB-100W-24VDC-2XK-TB	PSB-2X100W-24VDC-2XK-TB	PSB-3X100W-24VDC-2XK-TB	PSB-4X100W-24VDC-2XK-TB
IN-WALL MOUNTING	PSB-100W-24VDC-2XK-IW	NA	NA	NA

DMX TUNABLE WHITE DIMMING & CONTROLS

|	PSB-100W-24VDC-2XK	PSB-2X100W-24VDC-2XK	PSB-3X100W-24VDC-2XK	PSB-4X100W-24VDC-2XK
TUNABLE WHITE TOUCH CONTROLLER (CDMX1-2XK)	•	•	•	•

- Flicker free dimming
- Aluminum casing for optimal heat dissipation
- Isolated output power per NEC and UL safety requirements
- UL & ETL recognized/ listed, meets UL 8750, 1310 requirements
- Auto-reset; short circuit, overload and thermal protection
- Class 2 power supply
- Efficient, High power factor > 0.90
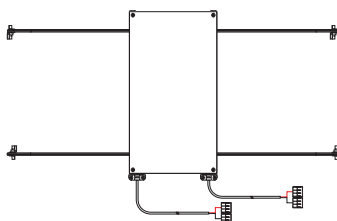
T-BAR Mounting Kit: Includes power supply, box cover, and T-bar hangers for installing Junction Box above ceiling with in easy reach. Comes with 4ft of 14 gauge pair Teflon cables with quick secure connectors.

Ordering Codes:
PSB-100W-24VDC-2XK-TB
PSB-2x100W-24VDC-2XK-TB
PSB-3x100W-24VDC-2XK-TB
PSB-4x100W-24VDC-2XK-TB
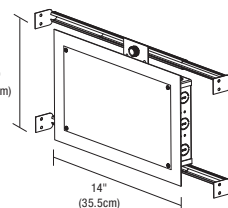
8.5" x 14" In-Wall Mounting Kit: Includes power supply, box cover and stud hangers for installing Junction Box in wall. Select "IW" in the options section of compatible power supply ordering codes if an In-Wall Mounting Kit is needed.

Ordering Codes:
PSB-100W-24VDC-2XK-IW
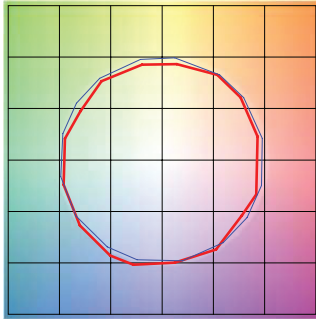
PROJECT		FIXTURE TYPE		DATE

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TM30 DATA
24VDC REMOTE POWER, MATTE WHITE LENS OR DEEP CELL REFLECTOR

PURE EDGE
LIGHTING

TM-30-15 DATA

2700K | Rf: 87.7 | Rg: 96.1
Color Vector Graphic

Test Reference

HUE BIN	Rf	GRAPHIC SHIFTS %	
		CHROMA	HUE
1	88.0	-4.3%	2.6%
2	91.6	-2.4%	2.0%
3	93.7	-1.4%	1.9%
4	88.9	-5.6%	-3.1%
5	92.3	-5.5%	-0.5%
6	92.9	-3.5%	0.1%
7	84.5	-7.5%	4.6%
8	90.8	-3.0%	4.4%
9	84.5	-1.3%	8.3%
10	83.9	2.0%	9.8%
11	87.2	5.3%	7.1%
12	89.2	5.4%	-2.6%
13	88.7	0.3%	-7.8%
14	86.8	1.7%	-9.3%
15	87.6	-5.4%	-1.3%
16	83.6	-3.3%	-9.5%

3000K | Rf: 88.1 | Rg: 99.7
Color Vector Graphic
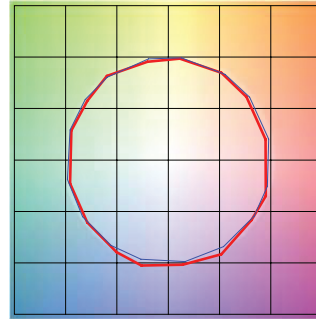
Test Reference

HUE BIN	Rf	GRAPHIC SHIFTS %	
		CHROMA	HUE
1	92.5	-3.1%	0.3%
2	93.3	-2.3%	1.9%
3	90.9	-0.8%	3.9%
4	94.3	-1.1%	1.4%
5	92.5	-2.6%	1.5%
6	96.4	1.2%	-0.3%
7	92.6	-2.5%	-0.0%
8	96.9	-1.4%	0.2%
9	92.3	-1.8%	4.3%
10	86.6	-0.7%	7.0%
11	86.5	2.4%	8.2%
12	89.8	5.9%	1.7%
13	93.9	2.6%	-2.7%
14	89.4	5.1%	-5.8%
15	90.1	-0.1%	-4.7%
16	86.5	0.3%	-9.7%

3500K | Rf: 86.1 | Rg: 95.5
Color Vector Graphic
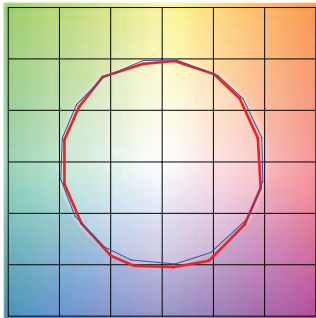
Test Reference

HUE BIN	Rf	GRAPHIC SHIFTS %	
		CHROMA	HUE
1	90.8	-3.8%	0.3%
2	92.3	-2.8%	2.1%
3	89.7	-1.0%	4.3%
4	92.6	-1.4%	1.7%
5	91.8	-3.1%	1.3%
6	96.2	0.8%	-0.4%
7	92.9	-3.2%	0.2%
8	94.3	-2.5%	1.5%
9	90.4	-2.5%	5.2%
10	84.3	-1.4%	9.5%
11	83.1	3.5%	9.8%
12	88.2	4.8%	3.4%
13	94.0	2.7%	-2.0%
14	88.7	5.9%	-5.8%
15	88.7	0.7%	-5.9%
16	86.8	-0.7%	-6.7%

4000K | Rf: 87.6 | Rg: 96.8
Color Vector Graphic
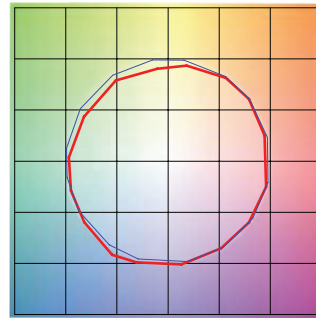
Test Reference

HUE BIN	Rf	GRAPHIC SHIFTS %	
		CHROMA	HUE
1	88.9	-2.4%	2.5%
2	93.3	-0.4%	0.8%
3	94.8	-1.0%	-0.6%
4	87.9	-4.9%	-3.6%
5	85.3	-9.4%	-2.6%
6	90.2	-6.0%	0.2%
7	85.3	-7.6%	4.6%
8	83.7	-4.1%	8.2%
9	79.5	-1.1%	13.8%
10	78.6	1.5%	12.1%
11	83.5	6.4%	7.8%
12	90.9	3.6%	-1.1%
13	88.3	1.7%	-6.3%
14	91.9	-0.4%	-2.2%
15	84.5	-0.9%	-5.5%
16	84.7	-1.1%	-4.4%

5700K | Rf: 80.3 | Rg: 91.5
Color Vector Graphic
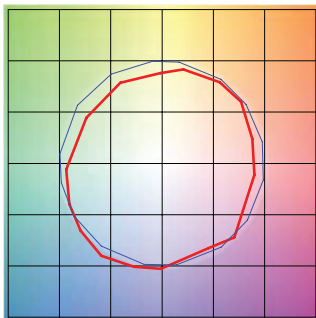
Test Reference

HUE BIN	Rf	GRAPHIC SHIFTS %	
		CHROMA	HUE
1	75.4	-8.9%	4.7%
2	87.5	-2.6%	4.6%
3	90.7	-3.0%	-0.5%
4	83.2	-6.0%	-5.7%
5	76.2	-12.9%	-5.3%
6	81.4	-11.9%	-2.6%
7	74.8	-14.0%	5.1%
8	69.0	-9.0%	14.1%
9	72.6	-3.6%	22.2%
10	71.4	2.7%	16.1%
11	81.3	7.9%	5.3%
12	83.6	4.1%	-9.4%
13	78.4	0.7%	-15.3%
14	77.7	-6.2%	-11.0%
15	68.8	-1.3%	-21.2%
16	80.8	-9.6%	3.3%

2000K ONLY (27K6) | Rf: 84.3 | Rg: 96.9
Color Vector Graphic
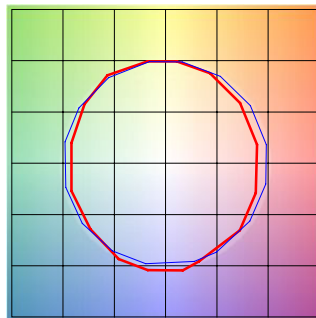
Test Reference

HUE BIN	Rf	GRAPHIC SHIFTS %	
		CHROMA	HUE
1	80.3	-8.9%	1.7%
2	79.7	-7.0%	7.8%
3	78.9	-2.9%	10.0%
4	89.5	-0.5%	5.1%
5	94.4	0.7%	1.7%
6	92.1	2.4%	-0.3%
7	89.4	-2.4%	-5.9%
8	89.7	-6.4%	-0.2%
9	86.0	-4.9%	4.6%
10	81.8	-3.4%	9.3%
11	83.1	3.3%	9.7%
12	85.8	5.6%	3.3%
13	85.6	6.2%	-12.8%
14	61.7	-1.9%	-19.0%
15	79.7	-3.3%	-12.9%
16	78.1	-7.9%	-10.6%

PROJECT		FIXTURE TYPE		DATE	

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TM-30-15 DATA

3000K (27K6) | Rf: 90.2 | Rg: 101.4
Color Vector Graphic
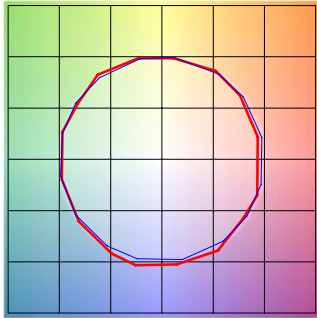
■ Test ■ Reference

		GRAPHIC SHIFTS %	
HUE BIN	Rf	CHROMA	HUE
1	90.9	-3.8%	1.3%
2	91.7	-1.9%	3.3%
3	88.7	0.7%	5.1%
4	92.4	-1.0%	0.7%
5	92.9	0.9%	1.7%
6	93.1	3.3%	-0.6%
7	91.0	-1.8%	-0.4%
8	97.0	0.2%	-1.1%
9	92.8	-0.5%	3.6%
10	88.3	1.0%	7.0%
11	87.1	3.8%	7.8%
12	87.6	6.5%	-0.3%
13	89.3	3.6%	-6.3%
14	86.1	4.5%	-9.1%
15	91.6	-1.9%	-3.1%
16	83.8	-1.5%	-11.2%

4000K ONLY (27K6) | Rf: 89.6 | Rg: 99.1
Color Vector Graphic
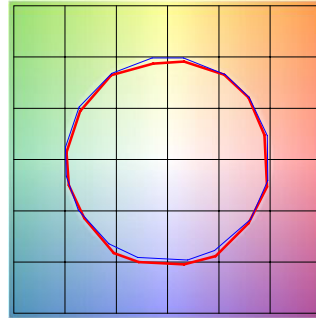
■ Test ■ Reference

		GRAPHIC SHIFTS %	
HUE BIN	Rf	CHROMA	HUE
1	91.3	-2.5%	1.0%
2	95.3	-0.5%	0.5%
3	94.3	-0.7%	1.1%
4	91.1	-3.4%	-1.1%
5	89.5	-5.6%	0.0%
6	94.6	-1.4%	1.3%
7	93.2	-3.0%	2.6%
8	91.3	-1.8%	4.6%
9	86.5	-0.9%	9.1%
10	83.3	-0.5%	9.5%
11	83.3	4.9%	9.0%
12	89.7	4.1%	1.7%
13	90.1	3.6%	-4.3%
14	93.4	5.2%	-2.1%
15	87.4	0.4%	-4.3%
16	86.6	0.4%	-6.1%

6500K ONLY (27K6) | Rf: 86.8 | Rg: 96.8
Color Vector Graphic
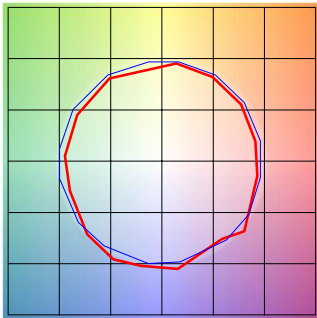
■ Test ■ Reference

		GRAPHIC SHIFTS %	
HUE BIN	Rf	CHROMA	HUE
1	86.5	-4.7%	0.8%
2	91.9	-2.5%	3.1%
3	91.2	-2.0%	1.9%
4	91.2	-1.6%	1.4%
5	85.7	-6.2%	-0.9%
6	92.9	-3.5%	-1.0%
7	92.1	-4.7%	0.7%
8	85.2	-5.8%	4.9%
9	82.8	-6.2%	14.3%
10	77.1	-0.7%	15%
11	72.1	5.8%	14.1%
12	91.6	4.0%	1.0%
13	89.9	5.6%	-2.3%
14	90.5	-1.8%	-3.7%
15	81.6	6.5%	-13.9%
16	92.8	-3.6%	-0.4%

PROJECT		FIXTURE TYPE		DATE	

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