Drywall

Drywall with Plaster & Paint

Description: TruLine 1.6A creates a clean line of glare-free general illumination within 5/8" drywall. The 24VDC linear LED system features a shallow, 5/8" deep plaster-in aluminum extrusion no thicker than drywall that houses two rows of high CRI, commercial-grade white or color-changing LED Soft Strip. Its 1.6" wide diffuser lens projects a clean line of light without LED dots. System mounts to studs without joist modification. TruLine is sold in 1 foot increments up to 40 feet (5WDC, white LEDs only), 20 feet (10WDC, white or RGB LEDs) or 8 feet (12WDC RGBW LEDs) and may be field-cut to any length. Coordinate installation with electrician and drywall contractors. Fixture includes a 5 year warranty. ETL listed. Patent pending.

Design Note: TruLine 1.6A can be installed on a single surface (wall or ceiling), or on multiple planes that join runs from wall to ceiling, or from one wall to an adjacent wall. Add optional components to create desired configurations, including Picture Frame Miter (LED on side of channel) and Room Wrapping (LED flat in channel) applications. Create rectangle or square configurations with TruQuad.

Applications: Indoor Only—General illumination and architectural lighting for offices, hospitality, retail, residences, libraries, closets, hallways, bath/vanity.

Lamp:

Watts per Foot	Lumens per Watt	Lumens per Foot	85+CRI 24k, 35K, 40K, 57K	90+CRI 2K4K	95+CRI 27K, 30K	RGB	RGBW
5WDC (2x2.5W)	77	386	●		●		
10WDC (2x5W)	71	698	●	●	●	●	
12WDC (2x6W)	N/A	N/A					●

Lumen values are based on the 3000K LED test.

Average Lamp Life: 50,000 hours

Power Supply:
White LED system, compatible Electronic Low Voltage Dimming (ELV) 120VAC input:
PSB-60W-ELV-24VDC (24VDC 60W output) | PSB-100W-ELV-24VDC (24VDC 100W output) | PSB-2X100W-ELV-24VDC (24VDC 2X100W output).
White LED system, compatible 0-10 Volt Dimming (010) 120-277VAC input:
PSB-96W-010-24VDC (24VDC 96W output) | PSB-2X96W-010-24VDC (24VDC 2X96W output).
In-Wall Mounting Kits: PSB-60W-ELV-24VDC-IW | PSB-100W-ELV-24VDC-IW | PSB-2X100W-ELV-24VDC-IW | PSB-96W-010-24VDC-IW | PSB-2X96W-010-24VDC-IW
RGB and RGBW LED System: PSB-100W-24VDC-RGB (24VDC 100W output) | PSB-2X100W-24VDC-RGB (24VDC 2X100W output) | PSB-3X100W-24VDC-RGB (24VDC 3X100W output) | PSB-4X100W-24VDC-RGB (24VDC 4X100W output)

Dimming and Controls:
ELV Dimmers: Legrand: Adorne ADTH700RMTU ; Lutron: DIVA DVELV-300P, Skylark SELV-300P and Maestro MAELV-600. **010V Dimmers:** Lutron: Radio Ra2 (with GRX-TVI), Grafik Eye Qs (with GRX-TVI), Diva (with PP20); Nova T; Philips: Sunrise SR1200ZTUNV; Leviton: IP710-DL. **RGB Controls:** Touch Screen Controller with Power Supply (CTP), or Color Dial Controller with Power Supply (CDP).

Included Components: TruLine 1.6A channels, LED Soft Strip, TL 1.6A Junction Box, TL1.6A Take-Up Box and all mounting hardware. See page 2 of spec sheet for additional details.
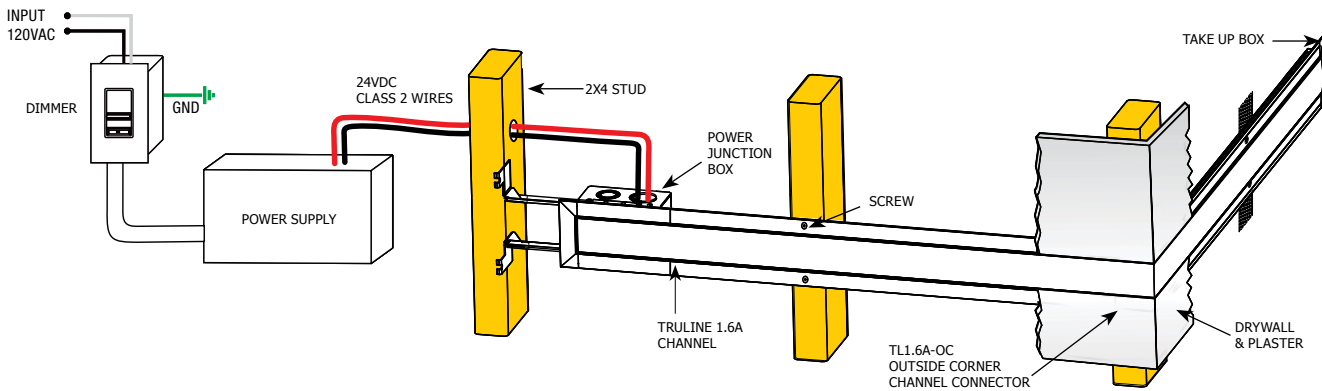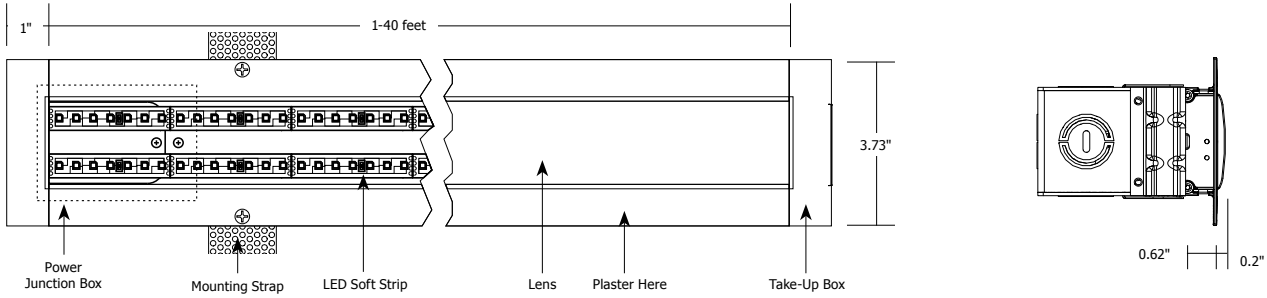
TRULINE 1.6A ORDERING CODES

System	Watts per Foot	Length in Feet	Color Temperature
TL1.6A -	**5WDC** -	**40FT** -	**27K**

System	Watts per Foot		Length in Feet	Color Temperature	
TL.1.6A TruLine 1.6" Wide 5/8" Deep	**5WDC** 5 Watts		1-40 Ft	**24K**	2400K
	10WDC 10 Watts		10WDC 1-20 ft	**27K**	2700K
	12WDC 12 Watts (RGBW only)		12WDC 1-8 ft	**30K**	3000K
				35K	3500K
				40K	4000K
				57K	5700K
				2K4K	20K - 41K (10W only)
				RGB	RGB (10W only)
				RGBW	RGB and 20K (12W only)

COMPANY		FIXTURE TYPE		DATE	
PROJECT		APPROVED BY			

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TruLine 1.6A, 24VDC Plaster-In LED system

1"
1-40 feet
3.73"

Power Junction Box
Mounting Strap
LED Soft Strip
Lens
Plaster Here
Take-Up Box

0.62" 0.2"

INPUT 120VAC
DIMMER
GND
POWER SUPPLY
24VDC CLASS 2 WIRES
2X4 STUD
POWER JUNCTION BOX
SCREW
TAKE UP BOX
TRULINE 1.6A CHANNEL
TL1.6A-OC OUTSIDE CORNER CHANNEL CONNECTOR
DRYWALL & PLASTER

INCLUDED COMPONENTS

TRULINE 1.6A POWER JUNCTION BOX
Slim profile junction box mounts behind 5/8" drywall. Low voltage DC wires from remote power supply connect to LED wires. Junction box opening covered by TruLine channel.

TRULINE 1.6A TAKE-UP BOX
Prevent dark spots at end of run by tucking excess LED Soft Strip safely behind wall.

LED SOFT STRIP
2 rows of commercial grade white or color changing LED Soft Strip. See Lamp data on page 1 of spec sheet for additional details.
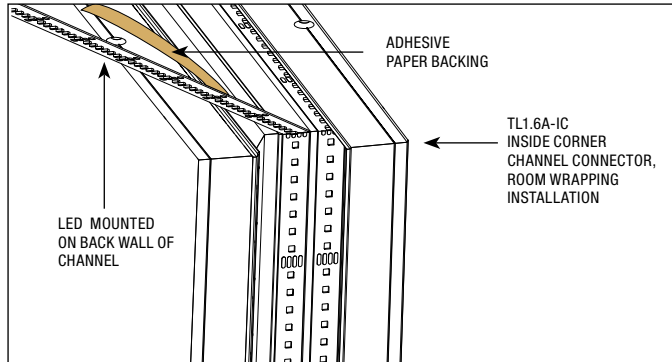
COMPANY		FIXTURE TYPE		DATE	
PROJECT		APPROVED BY			

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ROOM WRAPPING APPLICATION - LED FLAT IN CHANNEL
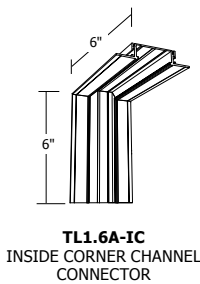
5/8" MIN. DRYWALL

CHANNEL

MOUNTING STRAP

DRYWALL SCREW

LENS

PLASTER
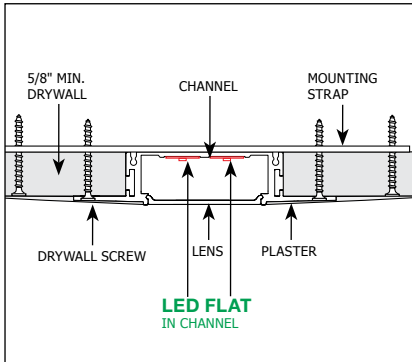
LED FLAT
IN CHANNEL

**TRULINE 1.6A SECTION VIEW
LED FLAT IN CHANNEL**

ADHESIVE PAPER BACKING

TL1.6A-IC INSIDE CORNER CHANNEL CONNECTOR, ROOM WRAPPING INSTALLATION

LED MOUNTED ON BACK WALL OF CHANNEL

ROOM WRAPPING INSTALLATION

MOUNTING STRAP

TL1.6A-IC INSIDE CORNER CHANNEL CONNECTOR

CHANNEL

2X4 STUD

LENS

24VDC CLASS 2 WIRES

CROSS BRACE

POWER JUNCTION BOX
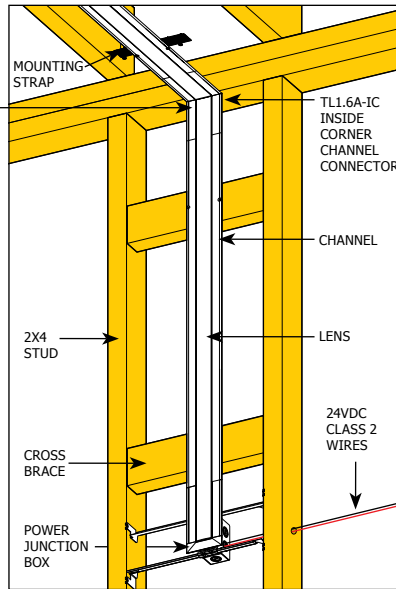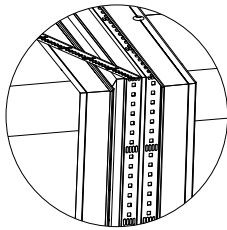
TRULINE 1.6A ROOM WRAPPING
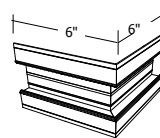
6"

6"

TL1.6A-IC
INSIDE CORNER CHANNEL CONNECTOR

6"

6"

TL.1.6A-OC
OUTSIDE CORNER CHANNEL CONNECTOR

Pure LIGHTING

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PICTURE FRAME MITER APPLICATION - LED ON SIDE OF CHANNEL

MOUNTING STRAP

PLASTER

CHANNEL

LED ON SIDE IN CHANNEL

LENS

DRYWALL SCREW

5/8" DRYWALL
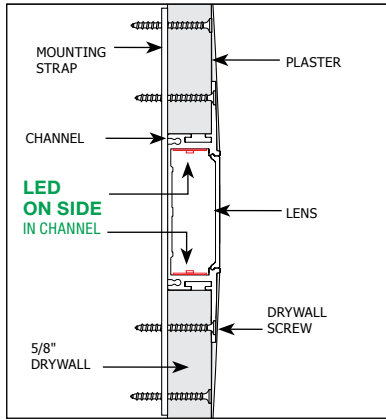
TRULINE 1.6A
SECTION VIEW - LED ON SIDE

POWER JUNCTION BOX

2X4 STUD

CROSS BRACE

LENS

L-SHAPED CHANNEL CONNECTOR

MOUNTING STRAP

TL1.6A CHANNEL

TAKE-UP BOX

LED MOUNTED ON SIDE OF CHANNEL

TL1.6A-L
L-SHAPED CHANNEL CONNECTOR, PICTURE FRAME INSTALLATION

PICTURE FRAME MITER INSTALLATION

6"

6"

TL1.6A-L
L-SHAPED CHANNEL CONNECTOR
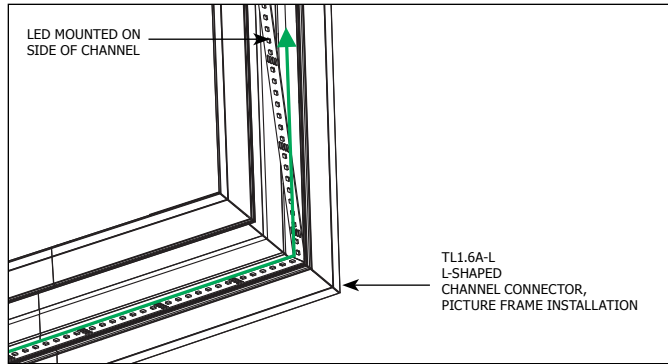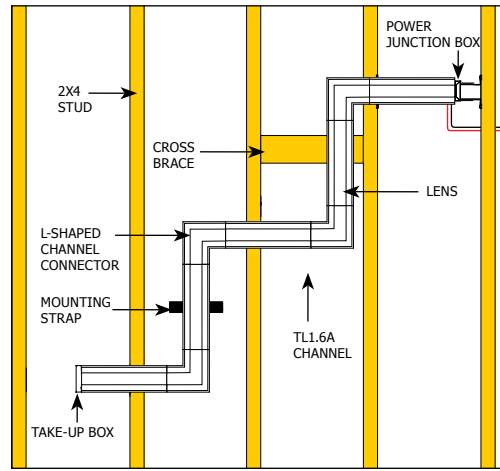
6"

6"
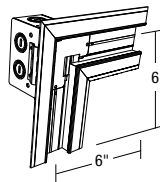
TL1.6A-LP
L-SHAPED POWER CHANNEL CONNECTOR

Pure LIGHTING

A Division of PureEdge Lighting 1718 W. Fullerton Chicago, IL 60614 • Ph: 773.770.1196 • Fax: 773.883.6128 • www.purelighting.com
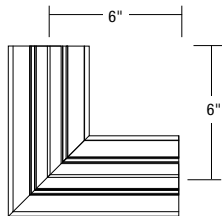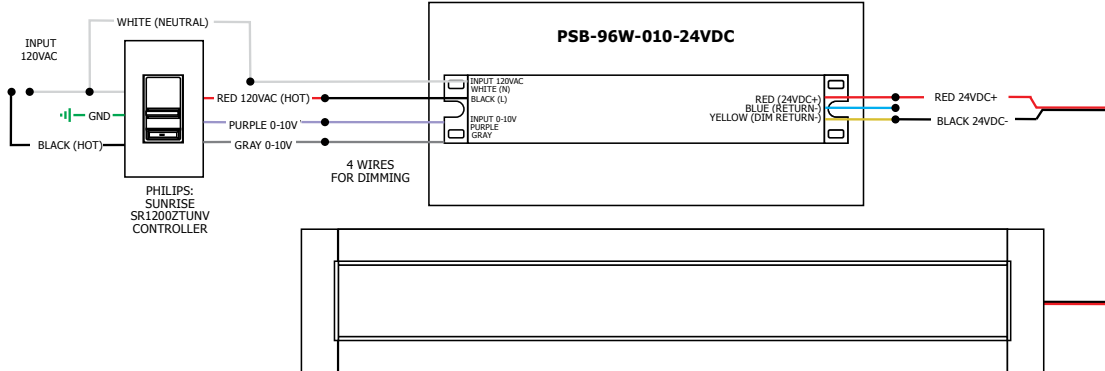
COMPANY		FIXTURE TYPE		DATE	
PROJECT		APPROVED BY			

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Application: 0-10V dimming for TruLine 1.6A

Power Supply: PSB-96W-010-24VDC (24VDC 96W output) | PSB-2X96W-010-24VDC (24VDC 2X96W output).

Dimming: Radio Ra2 (with GRX-TVI), Grafik Eye Qs (with GRX-TVI), Diva (with PP20); Nova T; Philips: Sunrise SR1200ZTUNV; Leviton: IP710-DL.

96W, 24VDC LOW VOLTAGE WIRE SIZE CHART: 3% VOLTAGE DROP

WIRE LENGTH (FT)	UP TO 33FT	34FT–52FT	53FT–86FT	87FT–130FT
WIRE SIZE	14 AWG	12 AWG	10 AWG	8 AWG
VOLTAGE AT END OF WIRE	23.28VDC	23.29VDC	23.28VDC	23.28VDC

COMPANY		FIXTURE TYPE		DATE	
PROJECT		APPROVED BY			

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5 WATTS PER FOOT - 24K, 27K, 30K, 35K, 40K AND 57K WHITE LEDS

LENGTH IN FEET	WATTS
1	5
2	10
3	14
4	19
5	24
6	29
7	34
8	38
9	43
10	48

LENGTH IN FEET	WATTS
11	53
12	58
13	63
14	67
15	72
16	77
17	82
18	87
19	91
20	96

LENGTH IN FEET	WATTS
21	2 x 51W
22	2 x 53W
23	2 x 55W
24	2 x 58W
25	2 x 60W
26	2 x 62W
27	2 x 65W
28	2 x 67W
29	2 x 70W
30	2 x 72W

LENGTH IN FEET	WATTS
31	2 x 74W
32	2 x 77W
33	2 x 79W
34	2 x 82W
35	2 x 84W
36	2 x 86W
37	2 x 89W
38	2 x 91W
39	2 x 94W
40	2 x 96W

10 WATTS PER FOOT - 24K, 27K, 30K, 35K, 40K, 57K, 2K4K AND RGB LEDS

LENGTH IN FEET	WATTS
1	10
2	19
3	29
4	38
5	48

LENGTH IN FEET	WATTS
6	58
7	67
8	77
9	86
10	96

LENGTH IN FEET	WATTS
11	2 x 53
12	2 x 58
13	2 x 62
14	2 x 67
15	2 x 72

LENGTH IN FEET	WATTS
16	2 x 77
17	2 x 82
18	2 x 87
19	2 x 91
20	2 x 96

12 WATTS PER FOOT - RGBW LEDS

LENGTH IN FEET	WATTS
1	12
2	24

LENGTH IN FEET	WATTS
3	36
4	48

LENGTH IN FEET	WATTS
5	60
6	72

LENGTH IN FEET	WATTS
7	84
8	96

COMPANY		FIXTURE TYPE		DATE	
PROJECT		APPROVED BY			

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Pure LIGHTING