U Technology

Engineered Lighting Solutions

U CUSTOM

Blend Recessed Solutions

Custom Stealth Recess Mount Linear LED Fixtures

| SPECIFICATION | STEALTH | CUSTOM LENGTH | DIMMABLE | MONO-COLOR | DIM-TO-WARM | TW | RGB/RGBW |

MADE IN CANADA

BLEND

Stealth Architectural
Linear LED Fixtures

Black and white, visually synonymous with elegance and minimalism. This is the vision behind our BLEND Series.

Both LED light and aluminum housing are designed to disappear seamlessly and stealthily into any space when turned off, while providing beautifully diffused linear light while turned on.

Designed for homes, offices, theaters, auditoriums, restaurants, lounges, galleries, retail, hotels, event spaces and more.
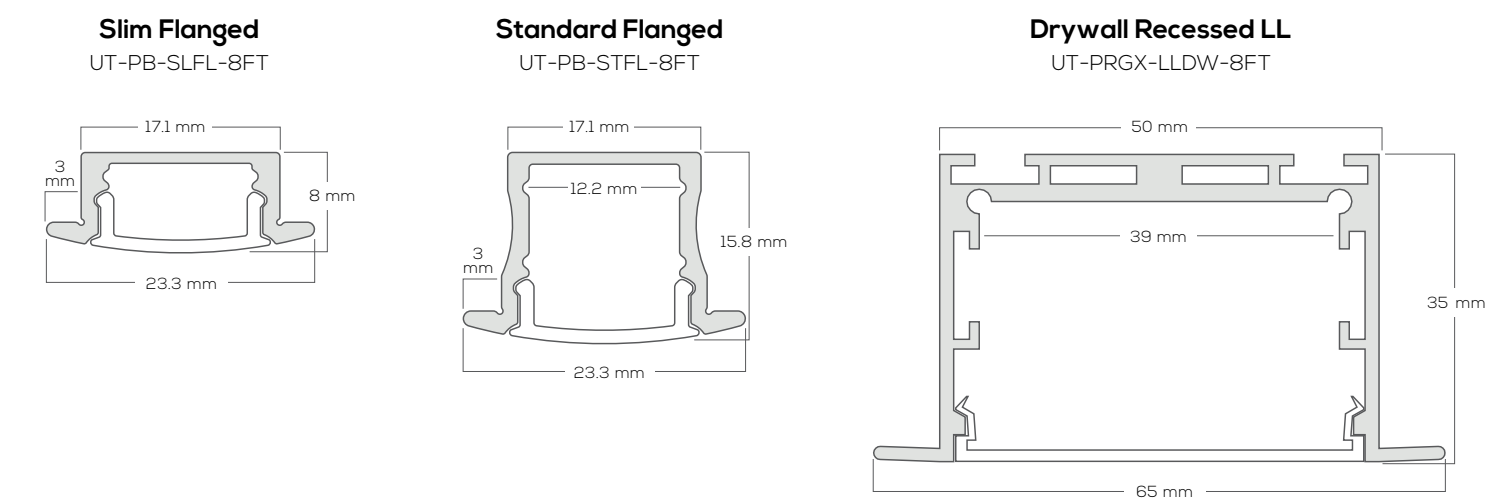
ON

ON

OFF

OFF

BLEND RECESSED SOLUTIONS

U CUSTOM - STEALTH LINEAR LED FIXTURES | ARCHITECTURAL | PRODUCT SPECIFICATIONS

Slim Flanged
UT-PB-SLFL-8FT

Standard Flanged
UT-PB-STFL-8FT

Drywall Recessed LL
UT-PRGX-LLDW-8FT

PRODUCT SPECIFICATIONS:

Body Construction	Anodized aluminum	Light-weight	Corrosion-resistant	Up to 8 ft sections
Lens Construction	Polycarbonate	UV-resistant	Impact-resistant	Up to 8 ft sections
Standard Lens	120° beam angle	Stealth black / white high diffusion	Alternates available - see Table 1.0 for details
Fixture Weight (lbs/ft)	UT-PB-SLFL: 0.12	UT-PB-STFL: 0.15	UT-PRGX-LLDW: 0.55
Trim Finish	● Black (BK)	○ White (WH)	◐ Also available in Brushed Silver Aluminum (SL)
Installation	Recess mount
Accessories	End caps with holes (EC-H)	End caps - no holes (EC-NH)
Other Mounting Options	Self-tapping screws	Double-sided tape / Adhesive (always use best practices)
Fixture Rating	UV and corrosion-resistant	Impact-resistant	Suitable from -40 to +40°C
Input Voltage	24V DC
CRI	+82	+90
Certification	CSA to cUL Standards	Class 2 cULus LISTED
Fixture Warranty	5 years* when installed with U Technology LED light engines and power supplies

*Must meet U Technology Terms and Conditions / All dimensions above are approximate, please acquire product sample(s) for precise sizing and measurements / To compare models and optimize your design, please visit utechnology.ca

BLEND RECESSED SOLUTIONS

U CUSTOM - STEALTH LINEAR LED FIXTURES | ARCHITECTURAL | ORDER FORM

Spec GRADE

Project Name										
Fixture Lengths					Quantities				Type	
Fixture Part #	❶		❷	❸	❹	❺	❻	❼	❽	❾	❿

ALUMINUM HOUSING OPTIONS

1. Model	UT-PB-SLFL	UT-PB-STFL	UT-PRGX-LLDW
2. Trim Finish	**BK:** Black (Blend)	**WH:** White (Blend)	**SL:** Brushed Silver
3. Lens/Optics *	**HD:** High Diffusion (White) **SD:** Standard (Translucent)	**PB:** Stealth (Black) **CL:** Clear (Transparent)	**FB:** 30° Focus Beam (Wall Wash)

*EXCEPTIONS: PRGX-LLDW - only SD/PB lenses, BK/WH finish options available * See Table 1.0 and 2.0 for lens and LED diffusion details*

LIGHT ENGINE OPTIONS

MONO-COLOR *- See Table 7.0 for details*

4. CCT	**27K:** 2700K	**30K:** 3000K	**35K:** 3500K	**40K:** 4000K
5. Source Lumens	**180** Lm/ft	**300** Lm/ft	**400** Lm/ft	**600** Lm/ft

VIVID COLOR *- See Table 7.0 for details*   *Available in SOLID*

4. CCT	**RGBW:** RGB+2700K	**RGB:** RGB	**TW:** 5000-2700K	**DTW:** 3000-1800K

Vivid Color Source Lumens: Up to +300 Lm/ft at 100% ouput

FINAL DETAILS

6. IP Rating	**IP20:** Dry location	**IP65:** Wet location		Custom:
7. Dimming	**UNV:** 0-10V/TRIAC	**TRIAC:** ELV/TRIAC	**Z10:** 0-10V	Custom:
8. Control	**DMX:** DMX Decoder	**GC:** Wireless	**D2D:** Dim-to-Dark	Other:
9. Wire Configuration	**FRONT** - 1 end **FRONT** - 2 end	**BACK** - 1 end **BACK** - 2 end		*See Table 4.0 for details*
10. Wire Length	**10:** 10 inch	**3F:** 3 feet	**6F:** 6 feet	Custom:

Standard fully-assembled fixtures come with Class 2 bare wire connection unless otherwise requested.
Please follow U Technology best practices, provided wiring diagrams and local electrical codes.
Contact your U Technology representative to order and/or to assist with project design(s).
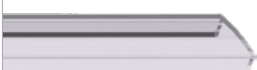
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BLEND RECESSED SOLUTIONS

Spec GRADE

TABLE 1.0 - OPTICS SPECIFICATIONS

Lens		Color	Diffusion Multiplier	CCT Shift (Kelvin)*	Application
	Standard (SD)	◯ Translucent	0.8	+100K	Most common lens: standard full light diffusion.
	High Diffusion (HD)	◯ White	0.5	+200K	Provides soft lighting. White stealth housing and optics blend easily into light colored surroundings.
	Stealth (PB)	● Black	0.2	+300K	Provides soft lighting. Black stealth housing and optics blend easily into dark colored surroundings.
	Clear (CL)	◯ Transparent	1.0	0K	Light diffusion is not required. Provides protection and maximum light output
	30° Focus Beam (FB)	◯ Transparent	1.0	0K	Light diffusion is not required. Excellent for wall wash applications.

Example: 300 Lm/ft with a Standard (SD) lens is 300 x 0.8 = 240 delivered Lm/ft | * Based on 3000K, 300 Lm/Ft

TABLE 2.0 - OPTICS DIFFUSION

	Aluminum Housing		
Light Engine	LLDW	SLFL	STFL
RGBW, FLLE-80	Dot-free (Direct Application) SD, HD, PB lenses	Indirect Application	
FLLE-120/120L/120M, TW, DTW, RGB	Dot-free (Direct Application) SD, HD, PB lenses		
SOLID	Dot-free (Direct Application) all lenses		

Dot-Free (Direct Application) - Definition: The fixture will be dot-free when the lens is viewed from a direct line of sight. Lighting applications include general area lighting, mood lighting, and near highly reflective surfaces.
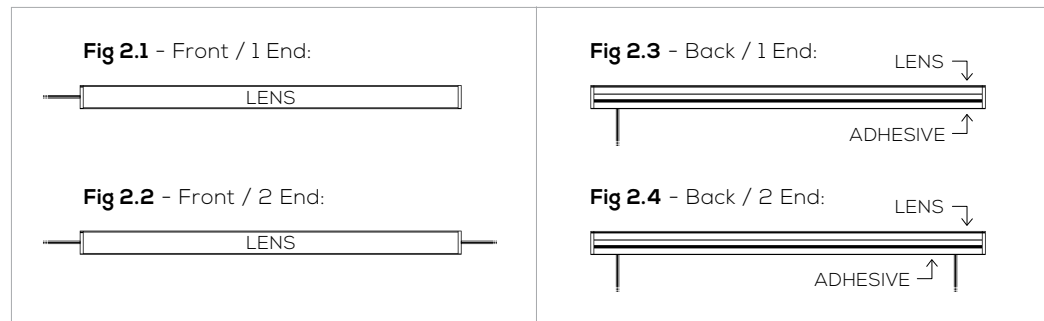
Indirect Application - Definition: The fixture will be dot-free when the lens is not viewed from a direct line of sight. Lighting applications include coves, back lighting, toe-kicks and much more. Excludes near highly reflective surfaces.

BLEND RECESSED SOLUTIONS

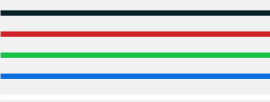U CUSTOM - STEALTH LINEAR LED FIXTURES | ARCHITECTURAL | CABLES AND CONNECTORS

TABLE 3.0 - WIRE CONFIGURATION OPTIONS

Fig 2.1 - Front / 1 End:

LENS

Fig 2.2 - Front / 2 End:

LENS

Fig 2.3 - Back / 1 End:

LENS

ADHESIVE

Fig 2.4 - Back / 2 End:

LENS

ADHESIVE

TABLE 4.0 - CABLES AND CONNECTORS

	Connector	Description	Model	Dimensions	Part #
Hardwire	**Power Input/Output** 2 to 5 conductors Bare wire	**Default connection:** Connect driver to fixture or to connect one fixture to another via bare-wire to bare-wire standard connection per local electrical code requirements	2 wire Mono/DTW 3 wire TW 4 wire RGB 5 wire RGBW	20 AWG - 10 in / Custom length 20 AWG - 10 in / Custom length 20 AWG - 10 in / Custom length 20 AWG - 10 in / Custom length	Choose on Page 2
Quick Connect	**Female Power Input** 2 & 5 Pin Female Connector IP67	Connect DC Power into fixture	2 Pin Mono/DTW 5 Pin TW/RGB/RGBW	20 AWG - 10 in 22 AWG - 10 in	UT-WIRE-QC67-2P-FW-10IN UT-WIRE-QC67-5P-FW-10IN
	Male Power Output 2 & 5 Pin Male Connector IP67	Connect driver DC output to fixture OR Connect a fixture DC output to another	2 Pin Mono/DTW 5 Pin TW/RGB/RGBW	20 AWG - 10 in 22 AWG - 10 in	UT-WIRE-QC67-2P-MW-10IN UT-WIRE-QC67-5P-MW-10IN
	Power Extension 2 & 5 Pin Male/Female Extension IP67	Connect DC Power into fixture	2 Pin Mono/DTW 5 Pin TW/RGB/RGBW	20 AWG - 10 ft 22 AWG - 10 ft	UT-WIRE-QC67-2P-MF-10FT UT-WIRE-QC67-5P-MF-10FT

TABLE 5.0 - WIRE COLOR CODE

LED Type	Color Code	Wire
MONO / DTW	+ RED Positive - BLACK Negative	
TW	+ BROWN, Common Positive - WHITE, Cool White LEDs - YELLOW, Warm White LEDs	
RGB	+ BLACK, Common Positive - GREEN, Green LEDs - RED, Red LEDs - BLUE, Blue LEDs	
RGBW	+ BLACK, Common Positive - GREEN, Green LEDs - RED, Red LEDs - BLUE, Blue LEDs - White, White LEDs	

BLEND RECESSED SOLUTIONS

U CUSTOM - STEALTH LINEAR LED FIXTURES | ARCHITECTURAL | LIGHT ENGINE DETAILS

TABLE 6.0 - LED LIGHT ENGINES

Light Engine	Voltage (VDC)	Load (W/ft)	Source Lumens (LM/ft)	Cut Length (inch)	CRI	CCT	IP Rating	Max Length (ft)
MONO-COLOR								
◯ UT-FLLE-80	24	1.3	180	3.94	82	3000K, 3500K, 4000K	20	32.8
◯ UT-FLLE-120		3.3	300	1.97	82	2700K, 3000K, 3500K, 4000K	20	23.0
◯ UT-FLLE-120L		4.0	400	1.97	90	2700K, 3000K, 3500K, 4000K	20 / 65	20.0
◯ UT-FLLE-120M		6.0	600	1.97	90	2700K, 3000K, 3500K, 4000K	20 / 65	15.0
◯ UT-FLLE-480L-SOLID		4.0	305	0.66	90	2700K, 3000K, 3500K, 4000K	20 / 65	16.5
VIVID COLOR								
⬤ UT-FLVLE-RGB*	24	2.0	300	1.97	-	RGB	20	40.0
⬤ UT-FLVLE-RGBW*		3.5	300	2.81	-	RGB + 2700K	20 / 65	20.0
◯ UT-FLVLE-TW*		4.0	350	1.97	90	5000K - 2700K	20	20.0
◯ UT-FLLE-DTW**		4.0	300	2.81	90	3000K - 1800K	20	20.0

*Requires RGB, RGBW or TW control system | ** Dim-to-Warm requires a Dim-to-Dark capable LED power supply*

U TECHNOLOGY LIGHT ENGINE FEATURES

- Flicker-free with smooth dimming capabilities
- cUL to CSA Standards Certification
- +50,000-hour life expectancy
- Temperature Rating -30°C - +40°C
- Dry Location | Wet Location (select models)
- <1.0% Dimming Level
- 3-Step MacAdam Ellipse
- 3M double-sided bonding tape for mounting

Over 60 million vivid color options with RGBW
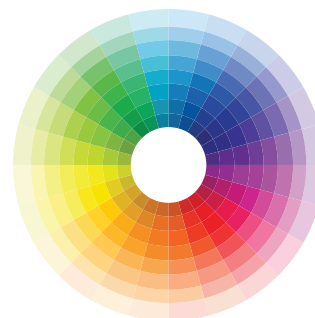
TABLE 7.0 - LED POWER SUPPLIES

Driver / Power Supply	Number of Class 2 Isolated Channels	Wattage (W)	Output Voltage (VDC)	Input Voltage (VDC)	Dimming Protocol	Dim Level	Power Factor	Min. Load
UT-PS-ELA-52W	1	52	24	120 - 277	Universal*	10%	0.98	10%
UT-PS-ELX-60W		60				<1.0%		N/A
UT-PS-ELX-96W		96						
UT-PS-ELE-96W-DIN		96						
UT-PS-ELE-192W	2	2 x 96						
UT-PS-ELE-288W	3	3 x 96						
UT-PS-ELE-384W	4	4 x 96						
UT-PS-ELDD-96W-Z10	1	96			0-10V, Dim-to-Dark*	<0.1%	0.95	0.95
UT-PS-ELE-288W-48V	3	3 x 96	48		Universal**	<1.0%	0.98	N/A

Dim-to-Dark: Ability to dim to 0.1% light output

*** Universal: Dimmer compatible with Forward Phase, Reverse Phase, TRIAC, MLV, ELV dimmers and 0-10V dimmers*

U TECHNOLOGY POWER SUPPLY FEATURES

- CSA to cUL Standards Certification | Class 2, Class P, Type HL
- Rated for Temperatures -40°C to +40°C | Dry Location
- All isolated channels are below 100W and in accordance with Class 2 Certification

TABLE 8.0 - POWER SUPPLY DIMENSIONS

Fig 3.1 - ELA-52W

Fig 3.2 - ELDD-60W-TR

Fig 3.3 - ELE-96W-DIN

Fig 3.4 - ELE 192W

Fig 3.5 - ELE 288W

Fig 3.6 - ELE 384W

GLOSSARY

Mono	Mono-Color - Single-CCT, flicker-free, dimmable to 0.10% and engineered to last and exceed all expectations. Available in high CRI and high R9 values.
TW	Tunable White - Designed for precise CCT blending control for the perfect circadian rhythm design from 5000K to 2700K.
DTW	Dim-to-Warm - Automatic 3000K to 1800K dimming and CCT change to mimic halogen light bulbs using simple simple and robust dimming technology.
Solid	Continuous Solid Mono-Color - Designed to allow for dot-free lighting in any space with any lens.
RGB	Combination of Red + Green + Blue. Advanced 3-in-1 LED technology maximizes rich vivid color blending with 16.7 million possible color combinations.
RGBW	Combination of Red + Green + Blue + pure White. Advanced 4-in-1 LED technology maximizes rich vivid color blending without compromising the pure White experience.

ALUMINUM TRIM COLOR INDEX

Color	Swatch	RAL #
Brushed Silver	⬤	9006
Black	⬤	9005
White	◯	9016

GENERAL SUPPORT AND ORDERING:

Our specification-grade products and project support are available via your local authorized U Technology Representatives.

COMPATIBLE U TECHNOLOGY PRODUCTS

Door Sensor
Up to 2" detection
Part #: UT-SEN-DOR-BK

Proximity Sensor
Up to 5' detection
Part #: UT-SEN-PIR-BK

Touch Dimmer
Light touch control
Part #: UT-SEN-TDM-SL

Invisible Switch
Completely hidden control
Part #: UT-SEN-INV-WH