

UNDERScore INOUT
Side Bend 16 - Remote - Static White

Project: _____
Type: _____



Underscore InOut is a flexible continuous linear system for exterior applications, engineered for extreme conditions. This flexible system allows freedom of design on surface of any shape and size. Underscore InOut is the right solution where direct diffuse distribution is desired.

PHOTOMETRIC SUMMARY

CCT (K)	Lumens (lm/ft)	Efficacy (lm/W)	Max Candela (cd/ft)
2600	143	71	37
2900	138	69	35
3700	158	79	40
4600	152	76	39

Consult [page 7](#) for full photometric data.

FINISH OPTIONS

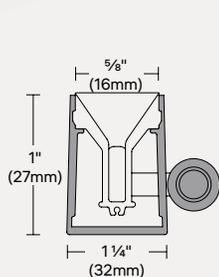


Consult factory for custom finishes

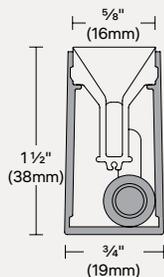
OPTIC OPTIONS



LOW CLEARANCE



HIGH PROFILE



FEATURES

- 0-10V (120-277V) down to 10%.
Lutron Hi Lume® 0.1% EcoSystem™ (120-277V) down to 0.1%. [page 2](#)
- Additional sizing for top bend:
[16mm, 16mm \(HO\)](#)
Additional sizing available for side bend:
[10mm](#)
- Consult factory for further customization
- Full specification available [page 7](#)



ORDERING INFO

PRODUCT CODE

EXAMPLE: IU16-S-826-0.8-AL-A-01

MODEL	BEND	LED	LENGTH	MOUNTING	FEED	FINISH
IU16 Underscore InOut 16mm	S Side Bend	826 2600K, 80CRI	Refer to configurations table on page 4 . Select matching length from the dropdown menu. Use scroll bar for more options.	LOW CLEARANCE	A Left Feed (115mm)	01 White
		829 2900K, 80CRI				
		837 3700K, 80 CRI				
		846 4600K, 80 CRI				
				HIGH PROFILE		
		AL Aluminum Low Support Clips				
		CL Stainless Steel Low Support Clips				
		LP Aluminum Low Profile				
AH Aluminum High Support Clips						
CH Stainless Steel High Support Clips						
HP Aluminum High Profile						
					F Left Feed (5000mm)	
					D Right Feed (115mm)	
					E Right Feed (1500mm)	
					N No Feed (For In-Line Modules)	

ACCESSORIES

To be ordered separately.

CONNECTION ACCESSORY CODE EXAMPLE: 4543

CONNECTION ACCESSORIES

4543
Wet location connection box
For cable Ø 3/16" to 7/16" (4mm to 11mm)

DRIVER CODE EXAMPLE: 4447-0024-096-UNV-D2

DRIVER

Driver options are available on [page 2](#).

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REMOTE LED DRIVER OPTIONS

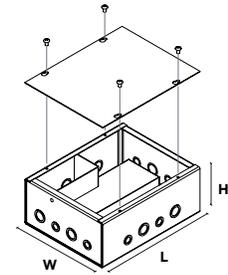
DRIVER BOX DIMENSIONS

DRIVER CODE EXAMPLE: 4447-0024-096-UNV-D2

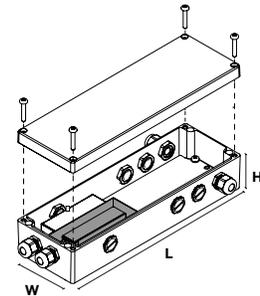
INDOOR RATED DRIVER BOX MODELS	WATTAGE REQUIREMENT PER FEET
	SIDE BEND (16mm)
4447-0024-096-UNV-D2	2W/ft
4449-0024-060-UNV-D10	
4449-0024-075-UNV-D10	

OUTDOOR RATED DRIVER BOX MODELS	WATTAGE REQUIREMENT PER FEET
	SIDE BEND (16mm)
4546-0024-200-2C-UNV-ND	2W/ft
4549-0024-075-UNV-D10	

See [page 3](#) for suggested wiring diagram. For longer remote distance, contact customer service.



INDOOR RATED



OUTDOOR RATED

DRIVER BOX MODEL DESCRIPTION

MODEL (L x W x H)	OUTPUT VOLTAGE	OUTPUT POWER	INPUT VOLTAGE	DIMMING PROTOCOL
4447 10 1/2" x 5 1/2" x 2" (266 x 139 x 50mm)	0024 24Vdc	060 to 200 60W to 200W	UNV 120-277V	ND No dimming Max Distance 28ft (8.5m) ¹
4449 12" x 8" x 4" (305 x 203 x 102mm)				D2 Lutron Hi Lume® 1% EcoSystem™ (Soft-on, Fade to Black) Dimming Range Down to ±0.1% Max Distance 28ft (8.5m) ¹
4546 12 1/4" x 4 1/2" x 2 3/8" (312 x 113.5 x 60.5mm)				D10 0-10V Dimming Range Down to ±10% Max Distance 30ft (9m) ¹
4549 14.5" x 5" x 3" (368 x 127 x 76mm)				

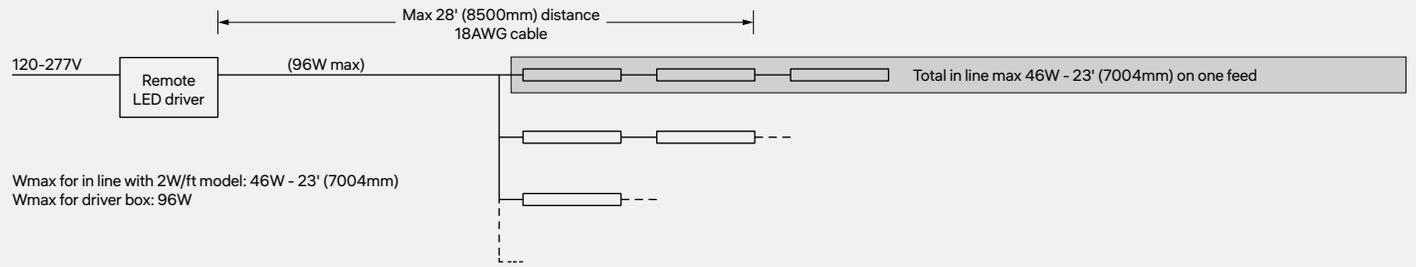
¹ Max distance cable calculated for 18AWG cable. Contact customer service for longer remote distance.

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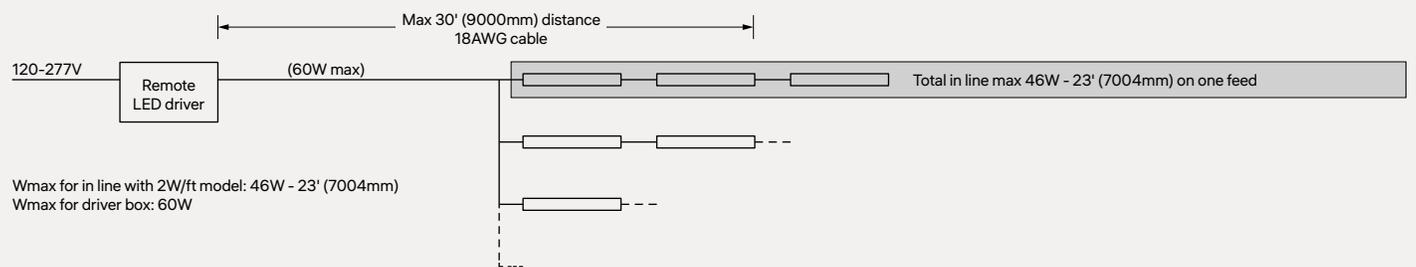
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SUGGESTED WIRING DIAGRAM

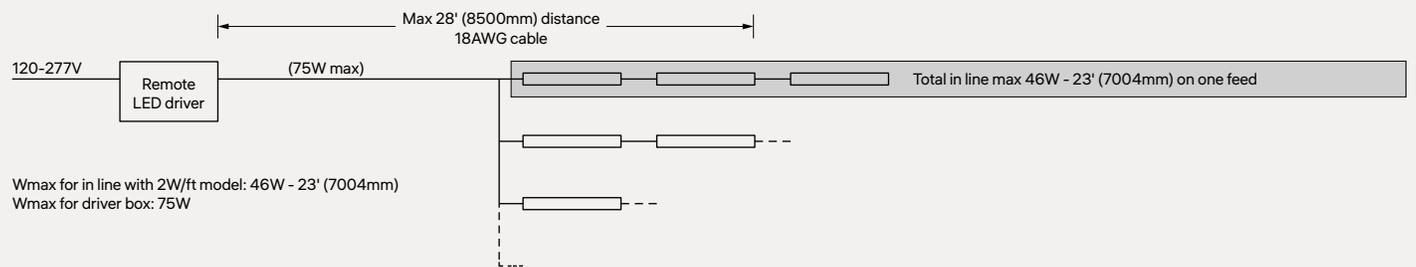
LED DRIVER CODE : 4447-0024-096-UNV-D2



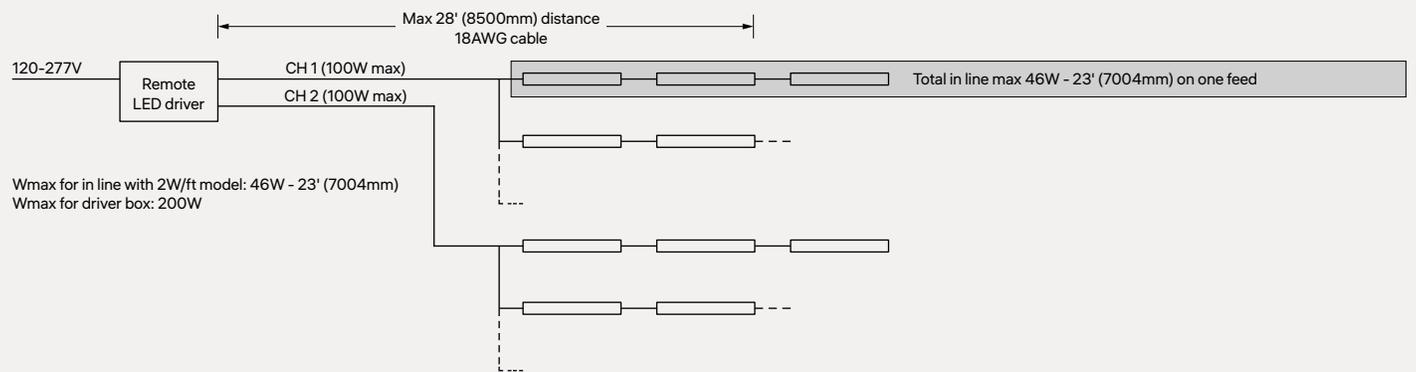
LED DRIVER CODE : 4449-0024-060-UNV-D10



LED DRIVER CODE : 4449-0024-075-UNV-D10



LED DRIVER CODE : 4546-0024-200-2C-UNV-ND

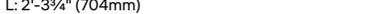
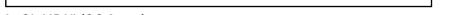


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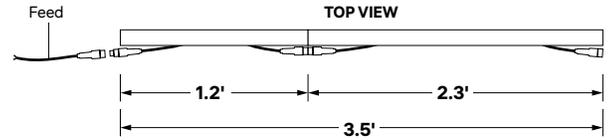
LENGTHS

0.8'	
	L: 10" (254mm)
1.0'	
	L: 1' (304mm)
1.2'	
	L: 1'-1 7/8" (354mm)
1.3'	
	L: 1'-3 7/8" (404mm)
1.5'	
	L: 1'-5 7/8" (454mm)
1.7'	
	L: 1'-7 7/8" (504mm)
1.8'	
	L: 1'-9 3/4" (554mm)
2.0'	
	L: 1'-11 1/4" (604mm)
2.1'	
	L: 2'-1 1/4" (654mm)
2.3'	
	L: 2'-3 3/4" (704mm)
2.5'	
	L: 2'-5 5/8" (754mm)
2.6'	
	L: 2'-7 7/8" (804mm)
2.8'	
	L: 2'-9 5/8" (854mm)
3.0'	
	L: 2'-11 1/8" (904mm)
3.1'	
	L: 3'-1 1/2" (954mm)
3.3'	
	L: 3'-3 1/2" (1004mm)
6.6'	
	L: 6'-6 7/8" (2004mm)
9.9'	
	L: 9'-10 1/4" (3004mm)
13.1'	
	L: 13'-1 7/8" (4004mm)
16.4'	
	L: 16'-5" (5004mm)
23.0'	
	L: 22'-11 1/4" (7004mm)

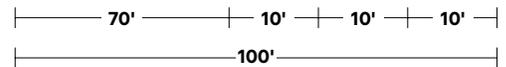
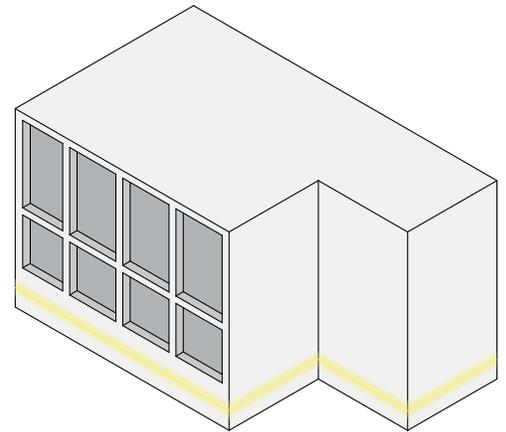
COMBINED MODULES

Standard modules can be combined in continuous rows, to create other length options. Thanks to the side positioning of the connectors, it avoids dark areas.

Each module is supplied with 3" (80mm) long cable with connector, to interconnect the modules, up to 23' (7004mm) long.



To get the desired length, simply choose standard modules to combine (example : A+B). For in-line modules (B), no feed is required.



ATTENTION: When ordering, each part of the design must be calculated separately.

 70' + (3 x 10')

 1 x 100'

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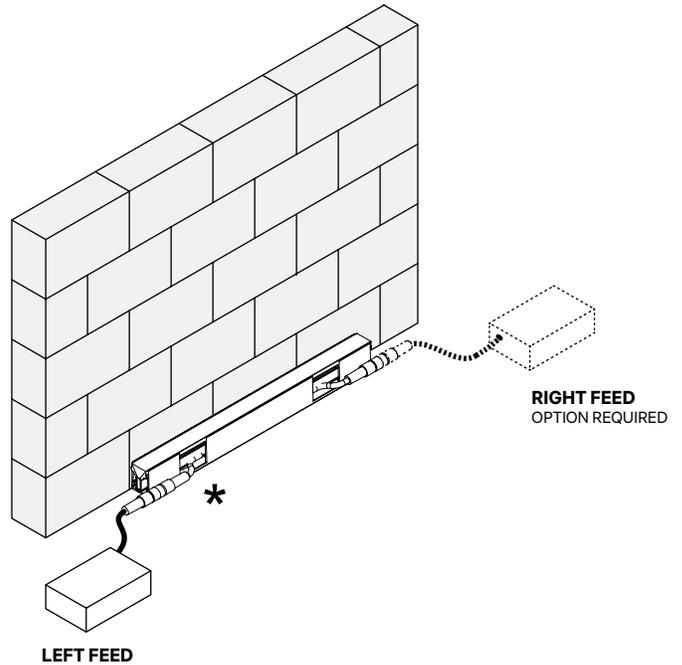
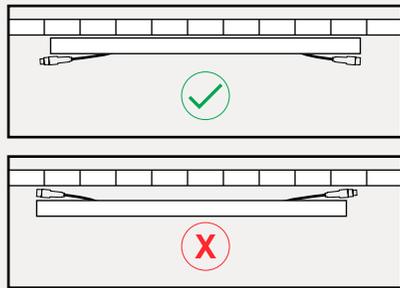
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FEED OPTIONS (INCLUDED)

Please refer to instruction sheet for more options.

LEFT FEED - STANDARD				NO FEED
				N No feed (for in-line modules)
A Cable with female connector	B Cable with female connector	C¹ Cable with female connector	F¹ Cable with female connector	
Length 4 ½" (115mm)	Length 59" (1500mm)	Length 118" (3000mm)	Length 193 ⅞" (5000mm)	
1 Low profile side bend is only available in 115mm or 1500mm				
RIGHT FEED - * AS REQUIRED DEPENDING ON THE INSTALLATION, SEE IMAGE BELOW				
				
D Cable with male connector	E Cable with male connector			
Length 4 ½" (115mm)	Length 59" (1500mm)			

ATTENTION: For side bend low clearance mounting, connectors must be positioned opposite of the wall.



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SIDE BEND MOUNTINGS

All mounting clips length: 1 5/8" (40mm)
 All profile length follows model length. See [page 4](#) for all available lengths.

LOW CLEARANCE MOUNTING - 1" HEIGHT		HIGH PROFILE MOUNTING - 1 1/4" HEIGHT	
With exposed connectors		With hidden Connectors	
CURVED INSTALLATION	STRAIGHT INSTALLATION	CURVED INSTALLATION	STRAIGHT INSTALLATION
<p>Minimum Curvature Radius: 5 7/8" (150mm)</p>		<p>Minimum Curvature Radius: 5 7/8" (150mm)</p>	
CLIP OPTIONS	PROFILE OPTION	CLIP OPTIONS	PROFILE OPTION
<p>AL Anodized Aluminum Clips</p> <p>CL Stainless Steel Clips</p>	<p>LP Anodized Aluminum Profile</p>	<p>AH Anodized Aluminum Clips</p> <p>CH Stainless Steel Clips</p>	<p>HP Anodized Aluminum Profile</p>

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SPECIFICATIONS

SOURCE

White LED
 2600K: 80CRI,
 2900K: 80CRI,
 3700K: 80CRI,
 4600K: 80CRI.

LUMEN MAINTENANCE

70% of initial lumens at 69 000 hours (L70 B10) T77°F (25°C)
 70% of initial lumens at 69 000 hours (L70 B10) T104°F (40°C)

OPTICS

General light. Underscore InOut can be used to create straight or curved lines on flat surfaces. Darkspot free lighting is guaranteed along the entire strip profile up to the end parts.

MATERIAL

Coextruded high performance polymer extrusion IP68 factory sealed assembly. Designed for extreme temperatures: -22°F to +113°F (-30°C to +45°C). The high performance polymer has been tested at 1760°F (960°C) with glow wire without igniting of smoke. Integral stainless steel splint system reducing mechanical stress and increase reliability.

MOUNTING

Universal surface mounted, using mounting accessories (included), see [page 6](#). Supplied with 3" (80mm) long cable with patented IP68 connection system.

ELECTRICAL

24V remote LED driver to be ordered separately.
 Control PWM:120V/277V.
 See remote LED driver options on [page 2](#).

DIMMING

0-10V (120-277V) down to 10%
 Lutron Hi Lume® 0.1% EcoSystem™ (120-277V) down to 0.1%.
 See remote dimming options on [page 2](#).

OPERATING TEMPERATURE

-30°C to +45°C (-22°F to +113°F)

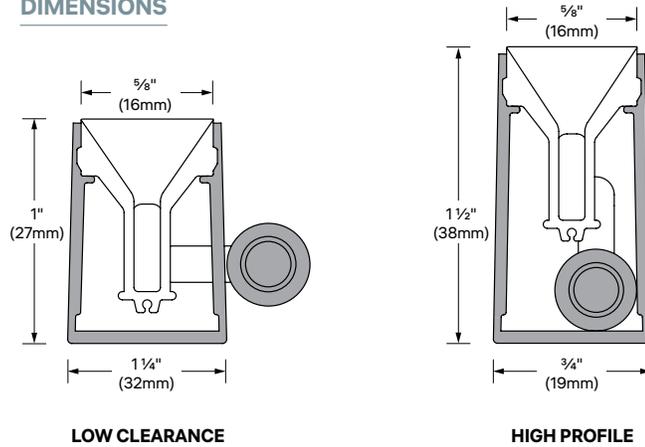
FINISH

White polymer extrusion with milky finish. Extruded anodized aluminum or stainless steel mounting clips.

WEIGHT

0.33lb/ft (0.15kg/ft)

DIMENSIONS



PHOTOMETRIC DATA

CCT (K)	CRI	OUTPUT	POWER (W/ft)	OPTIC	LUMENS (lm/ft)	EFFICACY (lm/W)	MAX CANDELA (cd/ft)	MODELS
2600	80	-	2	Side Bend 16 mm	143	71	37	IU16-S-826
2900					138	69	35	IU16-S-829
3700					158	79	40	IU16-S-837
4600					152	76	39	IU16-S-846

*For products that use a remote LED driver, total system wattage will vary according to the efficacy of the remote LED driver selected. For this reason, the load and efficacy values given in the table above refer to the LED source only and do not include the LED driver consumption.
 Efficacy based on IESNA LM-79 test reports. Visit iguzzini.com/us for complete photometric data.