

UNDERScore INOUT

Top Bend 16 - Remote - RGB & TW

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

LED	Lumens (lm/ft)	Efficacy (lm/W)	Max Candela (cd/ft)
RGB	42	15	11
Tunable White	165	56	46

Consult [page 6](#) for full photometric data.

FINISH OPTIONS

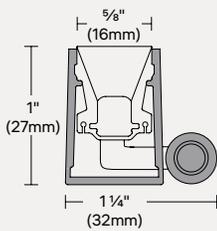


Consult factory for custom finishes

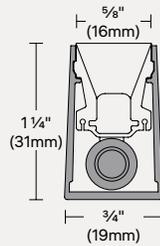
OPTIC OPTIONS



LOW CLEARANCE



HIGH PROFILE



FEATURES

- DALI/DMX (120-277V) [page 2](#)
- Additional sizing for top bend: **16mm (HO)**
Additional sizing available for side bend: **10mm & 16mm**
- Consult factory for further customization
- Full specification available [page 6](#)



ORDERING INFO

PRODUCT CODE

EXAMPLE: IU16-T-RGB-0.8-AL-A-01

MODEL	BEND	LED	LENGTH	MOUNTING	FEED	FINISH
IU16 Underscore InOut 16mm	T Top Bend	RGB RGB Led	Refer to configurations table on page 3 . Select matching length from the dropdown menu. Use scroll bar for more options.	LOW CLEARANCE	A Left Feed (115mm)	01 White
		TWL Tunable White Led		AL Aluminum Low Support Clips		
				CL Stainless Steel Low Support Clips	B Left Feed (1500mm)	
				LP Aluminum Low Profile	C Left Feed (3000mm)	
				HIGH PROFILE	F Left Feed (5000mm)	
				AH Aluminum High Support Clips	D Right Feed (115mm)	
				CH Stainless Steel High Support Clips	E Right Feed (1500mm)	
				HP Aluminum High Profile	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 EX.: 4549-0024-100-UNV-LDMX/DA

DRIVER

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

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REMOTE LED DRIVER OPTIONS

DRIVER CODE EXAMPLE: 4549-0024-100-UNV-LDMX/DA

INDOOR RATED DRIVER BOX MODELS	WATTAGE REQUIREMENT PER FEET	
	RGB	TUNABLE WHITE
4449-0024-100-UNV-LDMX/DA	2.7W/ft	2.8W/ft

OUTDOOR RATED DRIVER BOX MODELS	WATTAGE REQUIREMENT PER FEET	
	RGB	TUNABLE WHITE
4549-0024-100-UNV-LDMX/DA	2.7W/ft	2.8W/ft

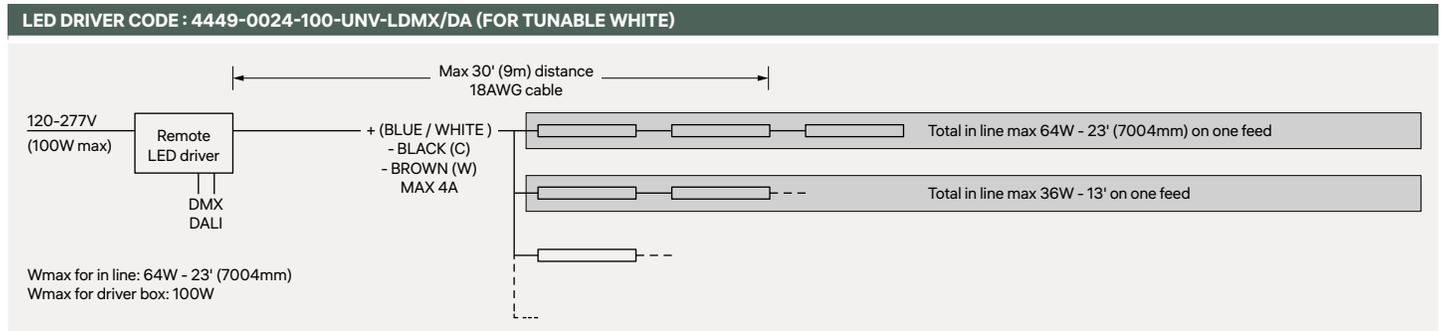
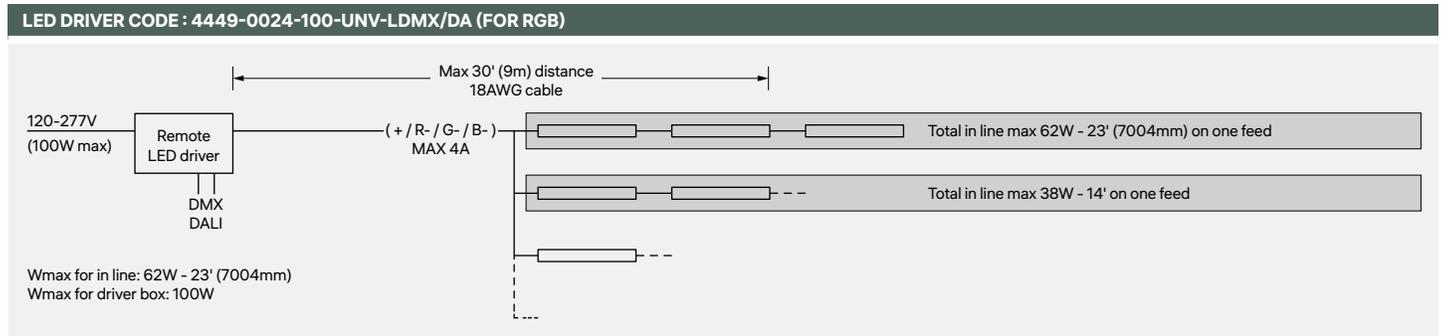
See below for suggested wiring diagram. For longer remote distance, contact customer service.

DRIVER BOX MODEL DESCRIPTION

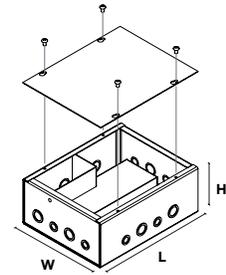
MODEL (L x W x H)	OUTPUT VOLTAGE	OUTPUT POWER	INPUT VOLTAGE	DIMMING PROTOCOL
4449 12" x 8" x 4" (305 x 203 x 102mm)	0024 24Vdc	100 100W	UNV 120-277V	LDMX/DA DMX /DALI Max Distance 30ft (9m) ¹
4549 14.5" x 5" x 3" (368 x 127 x 76mm)				

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

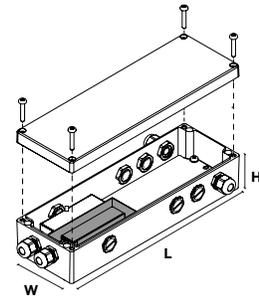
SUGGESTED WIRING DIAGRAM



DRIVER BOX DIMENSIONS



INDOOR RATED



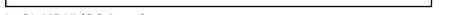
OUTDOOR RATED

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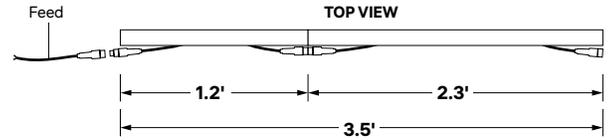
LENGTHS

0.8'	
	L: 10" (254mm)
1.0'	
	L: 1' (304mm)
1.2'	
	L: 1'-1 1/8" (354mm)
1.3'	
	L: 1'-3 3/8" (404mm)
1.5'	
	L: 1'-5 3/8" (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 1/8" (4004mm)
16.4'	
	L: 16'-5" (5004mm)
23.0'	
	L: 22'-11 1/4" (7004mm)

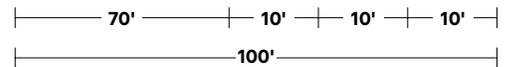
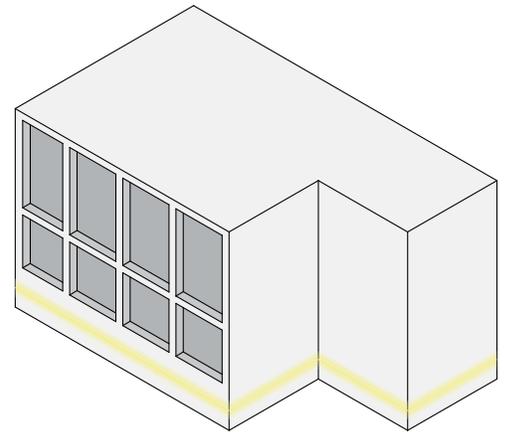
COMBINED MODULES

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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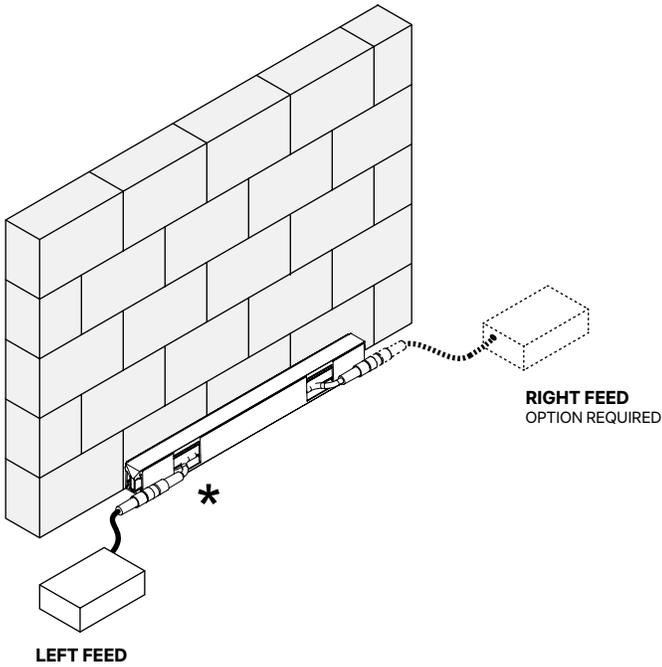
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FEED OPTIONS (INCLUDED)

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 Length 4 ½" (115mm)	B Cable with female connector Length 59" (1500mm)	C¹ Cable with female connector Length 118" (3000mm)	F¹ Cable with female connector Length 193 7/8" (5000mm)	
<p>1 Low profile side bend is only available in 115mm or 1500mm</p>				
RIGHT FEED - * AS REQUIRED DEPENDING ON THE INSTALLATION, SEE IMAGE BELOW				
D Cable with male connector Length 4 ½" (115mm)	E Cable with male connector Length 59" (1500mm)			



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TOP BEND MOUNTINGS

All mounting clips length: 1 5/8" (40mm)
 All profile length follows model length. See [page 3](#) 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: 10" (250mm)</p>		<p>Minimum Curvature Radius: 10" (250mm)</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

RGB
 Red, Green, Blue LED

TW
 2700K, 80CRI
 5000K, 80CRI

LUMEN MAINTENANCE

RGB
 70% of initial lumens at 65 000 hours (L70 B20) T77°F (25°C)
 70% of initial lumens at 35 000 hours (L70 B20) T104°F (40°C)

TW
 85% of initial lumens at 100 000 hours (L85 B10) T77°F (25°C)
 85% of initial lumens at 100 000 hours (L85 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 5](#). Supplied with 3" (80mm) long cable with patented IP68 connection system.

ELECTRICAL

24V remote LED driver to be ordered separately.
 See remote LED driver options on [page 2](#).

DIMMING

See remote dimming options on [page 2](#).

OPERATING TEMPERATURE

-30°C to +45°C (-22°F to +113°F)

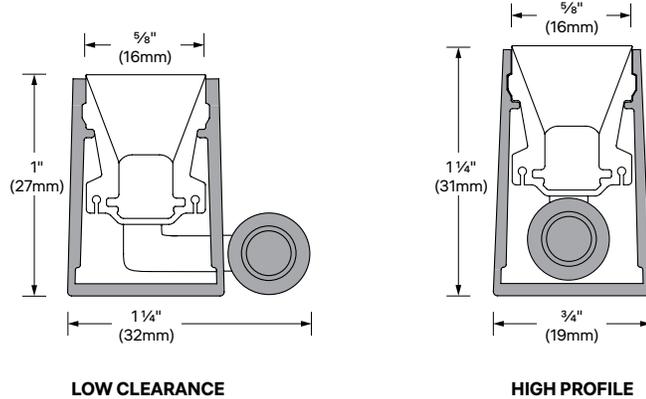
FINISH

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

WEIGHT

0.33lb/ft (0.15kg/ft)

DIMENSIONS



PHOTOMETRIC DATA

POWER (W/ft)	OPTIC	LUMENS (lm/ft)	EFFICACY (lm/W)	MAX CANDELA (cd/ft)	MODELS
2.7	Top Bend RGB 16 mm	42	15	11	IU16-T-RGB
2.9	Top Bend Tunable White 16 mm	165	56	46	IU16-T-TWL

*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.