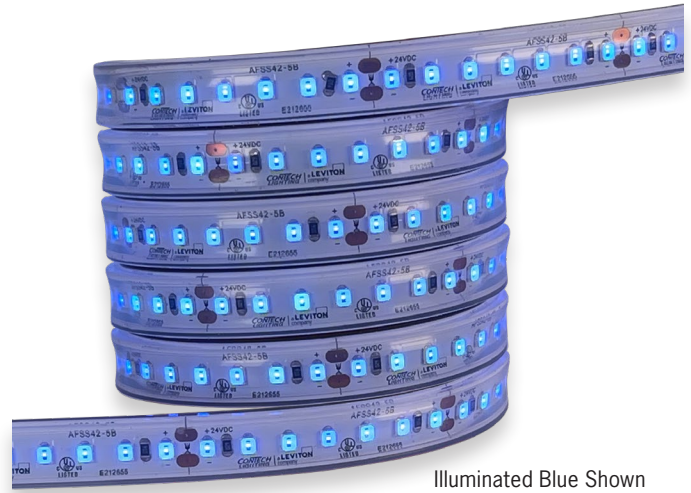


SpecFlex | **AFSS42 Wet Location Series**
Architectural Strip Lighting | 24V Monochrome, 42 LEDs per foot

Wet Location Rated 24V Architectural Flex Strip, Monochromatic, 42 LEDs per foot

This series offers single color strip light available in amber, red, green, and blue. Designed for reliable performance in wet location environments. Ideal for indoor and outdoor wet location applications including handrail and step lighting, building, display, and landscape accent lighting.



Illuminated Blue Shown

FEATURES

- IP67 Wet Location Rated
- Medium Density: 42 LEDs per foot
- Four (4) single color options
- Full Reels or Factory Cut into Custom Lengths
- Low power consumption with consistent, stable performance
- Wide range of Dimming and Non-dimming LED Drivers, Connectors, Mounting Channels, and Lenses
- Declare Listed
- Complete System is cCSAus Listed to UL and CSA Standards



SERIES	AFSS42-5			
WATTAGE ¹	5W/Ft			
COLOR	Amber	Blue	Green	Red
WAVELENGTH	585-590nm	465-470nm	525-535 nm	620-625 nm
LUMEN OUTPUT	158Lm/Ft	119Lm/Ft	600Lm/Ft	153Lm/Ft
MAX RUN LENGTH	21.3Ft			
LED DENSITY	42 LEDs/Ft			
CUT INCREMENT	1.97-Inches (50mm), Field Cuttable			
STRIP LIGHT WIDTH	0.47-Inches (12mm)			
MOUNTING	3M™ VHB Double Sided Tape / Channels & Clips			
OPERATING VOLTAGE	24V DC			
DIMMING	Forward / Reverse Phase and 0-10V			
OPERATING TEMP.	-25° to 40°C (-13° to 104°F)			
LIFE RATING	50,000 Hours @ 70% Lumen Maintenance			
LISTINGS	cCSAus Listed to UL and CSA Standards IP67 Rated; Suitable for Wet Locations Declare Listed RoHS Compliant For use with Class 2 LED Drivers only			
WARRANTY	Five (5) year replacement after date of purchase when installed within Mounting Channel Three (3) year replacement after date of purchase when installed without Mounting Channel			

1. Consult factory for additional output Wattages; additional lead time for special request Wattages.

SpecFlex
Architectural Strip Lighting

AFSS42 Wet Location Series

24V Monochrome, 42 LEDs per foot

ORDERING INFORMATION

FULL REELS

- Full Reels are available in Max Run Length for each available Wattage
- Each Reel has a 72-inch Plenum Rated Cable Power Lead soldered to the start of the length
- Additional lengths of Plenum Cable available (ordered separately)
- If field cut, use the included Silicone Endcaps with Silicone Sealant (TLAOSG) to re-seal the Strip Light
- Silicone Sealant (TLAOSG) and Plenum Rated Cable (CMP-2C) ordered separately; see Page 6 for details

Example Order: AFSS42-5G-7-R

Series	Wattage ¹	Colors	Location	Illuminated Length
AFSS42 Monochrome: 42LEDs/Ft	5 5W/Ft	A Amber B Blue G Green R Red	7 IP67 Wet Location	R Full Reel with 72-inch Power lead 5W/Ft: 21.3 Ft. Reel

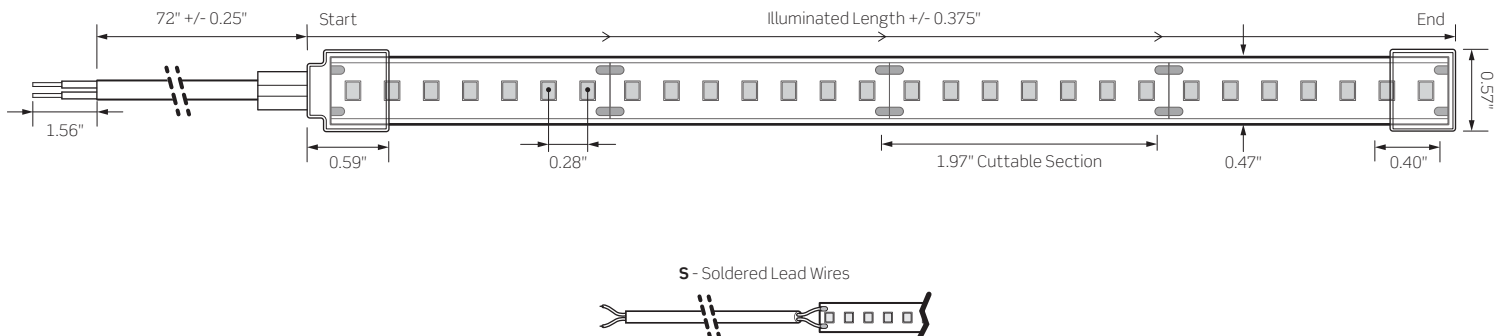
CUSTOM LENGTHS

- Custom Lengths cannot exceed the Maximum Run Length for the specified Wattage; see Max Run Length table on Page 10 for details
- Custom Lengths are factory sealed and bonded with specified Start of and End of Run Terminations.
- If No Termination (NT) is specified for the End Termination, the end of the Strip Light will be sealed with an Endcap
- Allow additional lead time for Custom Lengths
- Custom Lengths are made-to-order and are not returnable; approved Submittal Sheets are required before processing the order

Example Order: AFSS42-5G-7-S-NT-C188

Series	Wattage ¹	Colors	Location	Start Termination	End Termination	Custom Length
AFSS42 Monochrome: 42LEDs/Ft	5 5W/Ft	A Amber B Blue G Green R Red	7 IP67 Wet Location	S² 72-inch Soldered Lead Wires SXXX² Custom Length Soldered Lead Wires	NT No Termination S² 72-inch Soldered Lead Wires SXXX² Custom Length Soldered Lead Wires	CXXX Custom Length Desired length is specified in inches i.e. if the desired length is 15 Ft.-8-inches or 188-inches total, enter C188 AFSS42 Series has a cut increment of 1.97-inches, illuminated length will be rounded down to nearest cut increment

1. Consult factory for additional Wattage options; allow additional lead time for special request Wattages
2. All Lead Wires come sheathed in a Plenum Rated Cable rated to 90°C minimum; specify Custom Length Lead Wires in inches; max length: 120-inches



SpecFlex
Architectural Strip Lighting

AFSS42 Wet Location Series

24V Monochrome, 42 LEDs per foot

24V MOUNTING CHANNELS AND ACCESSORIES

ALUMINUM MOUNTING CHANNEL

- Provides excellent heat sinking and protection to the LEDs while ensuring a clean, straight run
- Anodized Satin Aluminum Channel
- All Channels and Accessories are Declare Listed

CHANNEL MOUNTING CLIPS

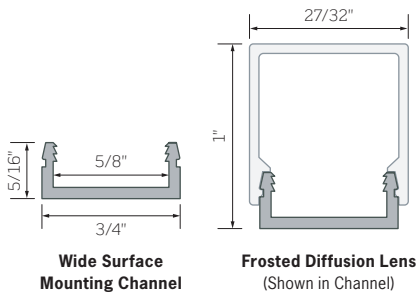
- Stainless Steel
- 24-Inches between clips recommended for most applications

CHANNEL ENDCAPS

- Creates a clean finish to the Mounting Channel
- ABS Grey Plastic
- Endcaps are ordered individually; one (1) solid Endcap and one (1) open Endcap (with Slot) is recommended
- Use Endcaps with Slots for Power Feed

Channel, Lens, Endcaps, and Mounting Clips are ordered separately

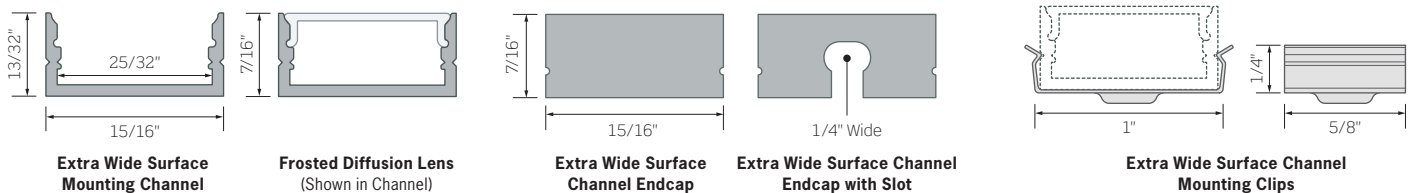
WIDE SURFACE MOUNTING CHANNEL



Channel and Lens	
AFEX1508S72-S	6 Ft. Wide Surface Mounting Channel, Aluminum
AFL1572-FR	6 Ft. Wide Surface Channel Diffusion Lens, Frosted No Pixelation with Diffusion Lens

Mounting Clips not available; use 3M™ Double-Sided Adhesive or Screw and Wall Anchor

EXTRA WIDE SURFACE MOUNTING CHANNEL



Channel and Lens	
AFEX2011S72-S	6 Ft. Extra Wide Surface Mounting Channel, Aluminum
AFL2072-FR	6 Ft. Extra Wide Surface Channel Diffusion Lens, Frosted; Slight Pixelation with Diffusion Lens

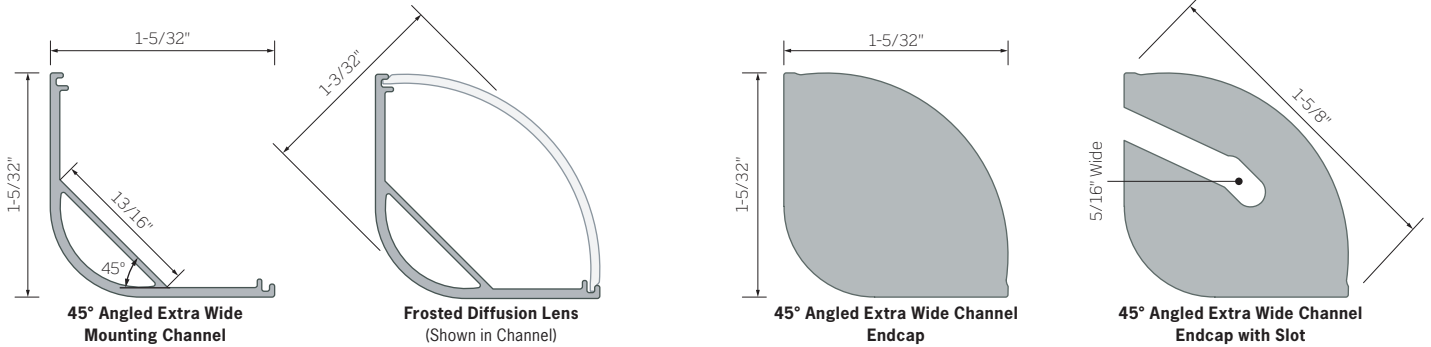
Endcaps	
AFEX2011S-EC	Extra Wide Surface Channel Solid Endcap, Grey
AFEX2011S-ECS	Extra Wide Surface Channel Endcap with Slot, Grey

Mounting Clips	
AFEX2011S-MC4	Four (4) Mounting Clips, Stainless Steel

SpecFlex | **AFSS42 Wet Location Series**
 Architectural Strip Lighting | 24V Monochrome, 42 LEDs per foot

24V MOUNTING CHANNELS AND ACCESSORIES

45° ANGLED EXTRA WIDE MOUNTING CHANNEL

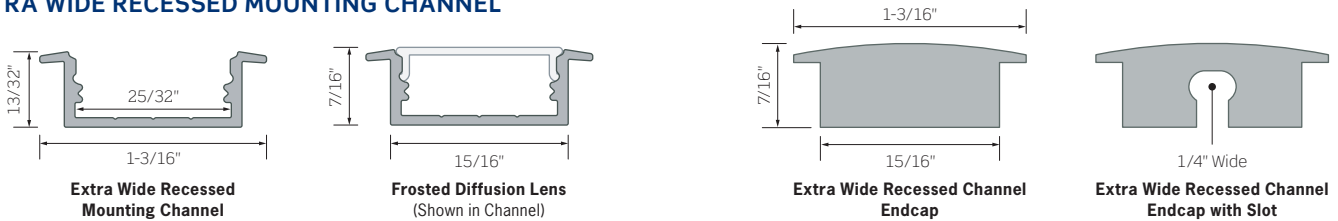


Channel and Lens	
AFEX2030A72-S	6 Ft. 45° Angled Extra Wide Mounting Channel, Aluminum
AFL20A72-FR	6 Ft. 45° Angled Extra Wide Channel Diffusion Lens, Frosted; No Pixelation with Diffusion Lens

Endcaps	
AFEX2030A-EC	45° Angled Extra Wide Channel Solid Endcap, Grey
AFEX2030A-ECS	45° Angled Extra Wide Channel Endcap with Slot, Grey

Mounting Clips not available; use 3M™ Double-Sided Adhesive or Screw and Wall Anchor

EXTRA WIDE RECESSED MOUNTING CHANNEL



Channel and Lens	
AFEX2011R72-S	6 Ft. Extra Wide Recessed Mounting Channel, Aluminum
AFL2072-FR	6 Ft. Extra Wide Recessed Channel Diffusion Lens, Frosted; Slight Pixelation with Diffusion Lens

Endcaps	
AFEX2011R-EC	Extra Wide Recessed Channel Solid Endcap, Grey
AFEX2011R-ECS	Extra Wide Recessed Channel Endcap with Slot, Grey

Mounting Clips not available; use 3M™ Double-Sided Adhesive or Screw and Wall Anchor

SpecFlex
Architectural Strip Lighting

AFSS42 Wet Location Series

24V Monochrome, 42 LEDs per foot

24V CONNECTORS

TLCC Series

Barrel Connectors

- 6-Inch long Male and Female Connector
- Includes Wire Pigtail
- Hardwire to LED Driver for easy plug in connection



Model Number	
TLCCM	Male barrel connector
TLCCF	Female barrel connector

TLCS Series

Plug-and-Play Power Splitter

- Approximately 2 feet long
- 2-Way: one (1) Male and two (2) Female Connectors
- 3-Way: one (1) Male and three (3) Female Connectors



Model Number	
TLCS2	Plug-and-play 2-way power splitter
TLCS3	Plug-and-play 3-way power splitter

TLCEXT Series

Plug-and-Play Power Extension

- Select from 24-, 36-, 48- and 96-inch lengths
- Male Plug Connector on one end, Female Plug Connector on other



Model Number	
TLCEXT24	24 Inch power extension
TLCEXT36	36 Inch power extension
TLCEXT48	48 Inch power extension
TLCEXT96	96 Inch power extension

SpecFlex
Architectural Strip Lighting

AFSS42 Wet Location Series

24V Monochrome, 42 LEDs per foot

24V ACCESSORIES

Plenum Rated Cable

Two Conductor Plenum Rated Cable

Model Number			
CMP-2C-10	10Ft	CMP-2C-30	30Ft
CMP-2C-15	15Ft	CMP-2C-50	50Ft
CMP-2C-20	20Ft	CMP-2C-100	100Ft



Silicone Sealant

Wet Location Silicone Sealant

Model Number	
TLAOSG	Silicone Sealant



24V CONTROLLERS

TLPRTW

4-Channel Power Repeater

- Enables synchronized control of multiple runs from one controller
- Use with Non-dimming LED Drivers
- Not UL Listed for outdoor use

Model Number	
TLPRTW	4-Channel Power Repeater (5-5/16" L x 1-3/4" W x 1-1/8" D)



TLPINT

DMX 512 CV Decoder

- Designed to convert universal DMX 512 signal to PWM signal when used with a DMX 512 console (by others)
- Use with Non-dimming LED Drivers
- Not UL Listed for outdoor use

Model Number	
TLPINT	DMX 512 CV Decoder (6-3/16" L x 3-1/8" W x 1-5/8" D)



TLPRGBRF

Dimming Controller with RF Remote Control

- Pre-programmed functions include: Color Strobe, 3-Channel Color Change and Gradual Brightness Change. Includes two (2) programmable presets
- Use with Non-dimming LED Drivers
- Not UL Listed for outdoor use

Model Number	
TLPRGBRF	Dimming Controller w/ RF Remote Control (8-3/8" L x 1-5/8" W x 1-3/16" D)



SpecFlex
Architectural Strip Lighting

AFSS42 Wet Location Series

24V Monochrome, 42 LEDs per foot

24V HARDWIRE LED DRIVERS

TLP24VHW Series

Hardwire Constant Voltage Driver

- 120VAC Input / 24VDC Output
- Includes stripped and tinned wire pigtails on the input and output sides
- 1 Foot Wire Leads
- Class 2 Recognized
- MUST BE MAINTAINED WITHIN AN ENCLOSURE THAT MEETS LOCAL BUILDING CODES AND NEC (SUPPLIED BY OTHERS)

Model Number	
TLP24VHW20	20W (5-3/4" L x 1-1/2" W x 1-1/4" H)
TLP24VHW60	60W (6-1/3" L x 1-3/4" W x 1-1/4" H)
TLP24VHW96	96W (6-1/8" L x 2-3/8" W x 1-1/2" H)



L3D0 Series

Hi-lume™ 0.1% EcoSystem Voltage LED Driver with Soft-On, Fade to Black™

- 120-277VAC Input / 24VDC Output
- Enclosed Class 2 Listed Constant Voltage Driver
- 96W Max

Model Number	
L3D0-96W24V-U	96W, 24V 120-277VAC (5.5" W x 2" H x 10.5" L)



TLP24VHW*MVD-ENC Series

Hardwire Class 2 Constant Voltage Enclosed Driver

- 120-277VAC Input / 24VDC Output
- Class 2 Listed Constant Voltage UL Listed Enclosed LED Driver
- Forward/Reverse Phase and 0-10V Dimming
- 0-10V Dimming delivers smooth flicker free linear dimming down to 1% with most LEDs and a wide variety of compatible dimmers
- No minimum load requirement. Over voltage, current, temperature, and short-circuit protection.

Model Number	
TLP24VHW60MVD-ENC	60W, Forward/Reverse Phase and 0-10V Dimming Driver (8" L x 3-3/8" W x 1-1/4" D)
TLP24VHW100MVD-ENC	96W, Forward/Reverse Phase and 0-10V Dimming Driver (8-1/4" L x 4-1/8" W x 1-1/2" D)



TLP24VHW*MV-ENC & TLP24VHW*MVD2-ENC Series

Hardwire Class 2 Constant Voltage Enclosed Driver

- 120-277VAC Input / 24VDC Output
- Class 2 Listed Constant Voltage UL Listed Enclosed LED Driver with built-in junction boxes; Wet Location Rated
- 0-10V Dimming and Non-dimming Models
- 0-10V Dimming Driver delivers smooth flicker free linear dimming down to 1% with most LEDs and a wide variety of compatible dimmers
- No minimum load requirement. Auto-reset protection for short circuit and over-temperature. Over load protection in CC mode.
- 12-1/8" L x 2-3/8" W x 1-3/8" D

Model Number	
TLP24VHW60MV-ENC	60W, Non-dimming Driver
TLP24VHW96MV-ENC	96W, Non-dimming Driver
TLP24VHW60MVD2-ENC	60W, 0-10V Dimming Driver
TLP24VHW96MVD2-ENC	96W, 0-10V Dimming Driver



24V PLUG-IN POWER SUPPLIES

TLP24VP Series

Plug-and-Play Power Supply

- 120VAC Input / 24VDC Output
- Includes AC Wall Plug and Female Power Output Barrel Plug for easy installation
- Class 2 Listed

Model Number	
TLP24VP36	36W (4-1/4" L x 2" W x 1-3/8" H)
TLP24VP60	60W (4-1/2" L x 2" W x 1-3/8" H)
TLP24VP96	96W (6-1/8" L x 2-3/8" W x 1-1/2" H)



SpecFlex
Architectural Strip Lighting

AFSS42 Wet Location Series

24V Monochrome, 42 LEDs per foot

PRODUCT SPECIFICATIONS

CONSTRUCTION

- Medium Density Flex Strip: 42 LEDs per foot
- Encased in silicone sleeve, factory sealed and bonded
- 3-Ounce Copper Construction provides excellent heat dissipation and reduced voltage drop
- Full Reels have 72-inch Soldered Lead sheathed in a Plenum Rated Cable rated to 90°C min.

LEDs

- Amber: 585–590nm
- Blue: 465–470nm
- Green: 525–235nm
- Red: 620–625nm

ELECTRICAL

- **Input Voltage:** 24VDC
- **Average Power Consumption/Wattage:** 5W
- **Dimming:** Forward / Reverse Phase and 0-10V Dimming
- **Ambient Operating Temp:** -25° to 40°C (-13° to 104°F)
- System designed and rated for 50,000 hours at 70% lumen maintenance
- Wet Location Rated Drivers and Controllers ordered separately

INSTALLATION

- Includes 3M™ VHB Adhesive Backing for strong adhesion to channels and most smooth surfaces
- IP67 Rated Full Strip Light Reels include silicone mounting brackets and screws for low-profile installations
- If field cut, use the included Silicone Endcaps with Silicone Sealant (TLAOSG) to re-seal the Strip Light
- Wide selection of Aluminum Mounting Channels are available with or without a Lens, Lens sold separately
- Mounting Channels simplify installation and provide a uniform surface for strip adhesion and thermal management
- Channel Endcaps are available to create a finished appearance to the run; open or closed Endcaps are sold separately
- Mounting Clips available in packs of four (4); includes screws and dry-wall anchors for surface mounting, sold separately
- All Mounting Channels are field cuttable

CERTIFICATIONS

- cSAus Listed to UL and CSA Standards
- IP67 Rated, suitable for Wet Locations
- Declare Listed
- RoHS Compliant

WARRANTY

- Covered by ConTech's full replacement guarantee after date of purchase:
 - Five (5) year replacement after date of purchase when installed within Mounting Channel
 - Three (3) year replacement after date of purchase when installed without Mounting Channel



SpecFlex Architectural Striplight
ConTech Lighting

Final Assembly: Northbrook, Illinois, USA
Life Expectancy: 5 Year(s)
End of Life Options: Recyclable (35%), Landfill (65%)

Ingredients:
 Aluminum; Copper; Carbonic acid, polymer with 4,4'-(1-methylethylidene)bis[phenol]; Polyvinyl chloride; Vinyl fluoride-Vinylidene fluoride-Chlorotrifluoroethylene copolymer; RTV silicone rubber; Ethylene glycol monomethyl ether; Tin, Organic; Plastiquinone; 1,3-Isobenzofurandione, polymer with 2,5-furandione and 2,2'-oxybis[ethanol]; Gold; Titanium dioxide; Silver; Diethylene Glycol

Living Building Challenge Criteria:

I-13 Red List:
 LBC Red List Free % Disclosed: 100% at 100ppm
 LBC Red List Approved VOC Content: Not Applicable
 Declared

I-10 Interior Performance: Not Applicable
I-14 Responsible Sourcing: Not Applicable

CNT-0004
 EXP. 01 JUN 2025
 Original Issue Date: 2024

MANUFACTURER RESPONSIBLE FOR LABEL ACCURACY
 INTERNATIONAL LIVING FUTURE INSTITUTE™ living-future.org/declare

SpecFlex
Architectural Strip Lighting

AFSS42 Wet Location Series

24V Monochrome, 42 LEDs per foot

PHOTOMETRICS

AFSS42-5A-7: 24V Wet Location SpecFlex Strip Light

5W/Ft, 42 LEDs, 1-Foot Strip, Amber

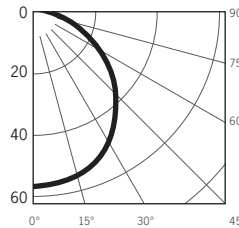
LM-63 Test No. G23112801; LM-79 Test No. S23112805

Fixture Delivered Lumens: 158.1
Total Watts@24V: 4.8
Lumens Per Watt: 32.9
Center Beam Candle Power: 56
Beam Distribution: 108°
Spacing Criterion: 1.27

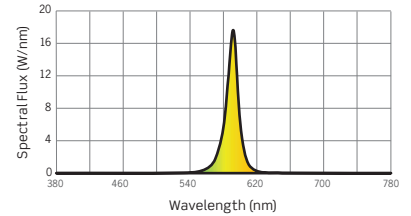
Intensity Distribution

DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIA. (FT.)
2 FT	14.0	5.5
4 FT	3.5	11.1
6 FT	1.6	16.6
8 FT	0.9	22.1
10 FT	0.6	27.6
12 FT	0.4	33.2

Candela Curve



Spectral Power Distribution Chart⁴



AFSS42-5B-7: 24V Wet Location SpecFlex Strip Light

5W/Ft, 42 LEDs, 1-Foot Strip, Blue

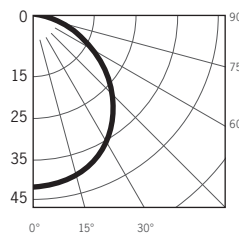
LM-63 Test No. G23112804; LM-79 Test No. S23112808

Fixture Delivered Lumens: 118.6
Total Watts@24V: 5.0
Lumens Per Watt: 23.7
Center Beam Candle Power: 42
Beam Distribution: 108°
Spacing Criterion: 1.26

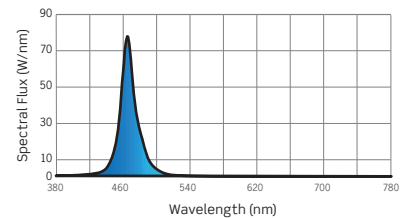
Intensity Distribution

DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIA. (FT.)
2 FT	10.5	5.5
4 FT	2.6	11.0
6 FT	1.2	16.5
8 FT	0.7	22.0
10 FT	0.4	27.5
12 FT	0.3	33.1

Candela Curve



Spectral Power Distribution Chart⁴



AFSS42-5G-7: 24V Wet Location SpecFlex Strip Light

5W/Ft, 42 LEDs, 1-Foot Strip, Green

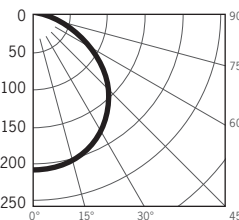
LM-63 Test No. G23112803; LM-79 Test No. S23112807

Fixture Delivered Lumens: 599
Total Watts@24V: 5.2
Lumens Per Watt: 115.3
Center Beam Candle Power: 211
Beam Distribution: 109°
Spacing Criterion: 1.28

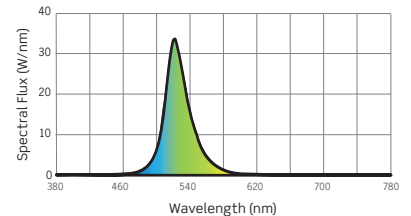
Intensity Distribution

DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIA. (FT.)
2 FT	52.6	5.6
4 FT	13.2	11.2
6 FT	5.8	16.8
8 FT	3.3	22.4
10 FT	2.1	28.0
12 FT	1.5	33.6

Candela Curve



Spectral Power Distribution Chart⁴



AFSS42-5R-7: 24V Wet Location SpecFlex Strip Light

5W/Ft, 42 LEDs, 1-Foot Strip, Red

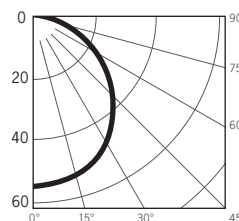
LM-63 Test No. G23112802; LM-79 Test No. S23112806

Fixture Delivered Lumens: 153.4
Total Watts@24V: 5.0
Lumens Per Watt: 30.7
Center Beam Candle Power: 55
Beam Distribution: 111°
Spacing Criterion: 1.27

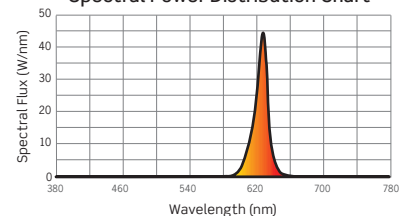
Intensity Distribution

DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIA. (FT.)
2 FT	13.6	5.8
4 FT	3.4	11.7
6 FT	1.5	17.5
8 FT	0.9	23.4
10 FT	0.5	29.2
12 FT	0.4	35.1

Candela Curve



Spectral Power Distribution Chart⁴



1. Accuracy of Rendering Colors 2. Color Appearance of Light Source 3. Dependent on Surrounding Temperatures 4. Colors Present within the Light Source

SpecFlex

Architectural Strip Lighting

AFSS42 Wet Location Series

24V Monochrome, 42 LEDs per foot

DIMMING SPECIFICATIONS LED Drivers have been tested with the following Dimmer Models:

TRIAC (LEADING EDGE) DIMMING

Manufacturer	Product	Model
Leviton	SureSlide	6672, 6674, 6674N, 66DF
	Decora Smart	D26HD, D2MSD, DN6HD
	Decora Digital	DDL06-1, DDM06, DDL06-1, DDMX1
	Decora Slide	DSL06, DSM10
	Illumatech	IPL06
	Trimatron Rotary	RDL06, RNL06
	Toggle Slide	TSL06, TSM10
Lutron	Caseta	PD-6WCL
	Diva	DVCL-153P
	Lumea	LECL-153P
	Maestro	MACL-153M
	Skylark	SCL-153P
	Toggler	TGCL-153P

ELV (TRAILING EDGE) DIMMING

Manufacturer	Product	Model
Leviton	Decora Digital	DDE06
Lutron	Diva	DVELV-300P-WH
	Skylark	SELV-300P-WH

0-10V DIMMING

Manufacturer	Product	Model
Leviton	IllumaTech	IP710-DLX, IP710-LFZ
Lutron	Diva	DVSCSTV, DVSCSTV, DVSTV, DDTV, DDTV-WH

- Testing has been performed on these Dimmers, but this does not imply any warranty of compatibility
- Dimming performance can be influenced by different Loads, as well as variations in Dimmer Switches within the same Model
- Dimmer Maximum Load Rating with LED may differ from published Traditional Source Dimmer Ratings; consult manufacturer for maximum dimmer information
- Consult factory for additional dimming information

MAX RUN LENGTH

INPUT = 24VDC

LED Driver	AFSS42-5
Wattage	Max Run Length
20W	3 FT
36W	6 FT
60W	11 FT
96W	21 FT

- Max Run refers to the total single run of Strip Light that can go on a Driver
- Max Run Lengths are calculated with 24V DC at the start of the Strip Light run. Voltage drop may occur if not using proper wire gauge. Refer to the Voltage Drop and Wire Length Distance chart.
- Max Run lengths above are calculated with no more than 30% light loss from the start of the Strip Light run to the end of the Strip Light run for optimal light consistency. If run lengths are extended beyond the recommended lengths noted above, there will be inconsistent light output and voltage drop.
- Overall distance of Strip Light under load (lit length). If exceeded, damage to the Driver and Strip Light may result.

VOLTAGE DROP AND WIRE LENGTH DISTANCE

3% VOLTAGE DROP

Wire Gauge	20W	30W	36W	60W	96W
22 AWG	27 FT	18 FT	15 FT	9 FT	5 FT
20 AWG	43 FT	28 FT	24 FT	14 FT	9 FT
18 AWG	68 FT	45 FT	38 FT	23 FT	14 FT
16 AWG	109 FT	72 FT	60 FT	36 FT	23 FT
14 AWG	174 FT	115 FT	95 FT	57 FT	36 FT
12 AWG	272 FT	181 FT	151 FT	90 FT	57 FT
10 AWG	432 FT	288 FT	240 FT	144 FT	90 FT

The Voltage Drop/Wire Length Distance Chart provides general guidelines for determining wire gauge based on total load and distance from the Driver to the beginning of the Strip Light run.