

Specflex

Architectural Strip Lighting

AFSS48-7H Wet Location Series

24V Static White, High Efficacy, Medium Density 48 LEDs per foot

IP67 Wet Location Rated 24V Architectural Flex Strip, Static White, High Efficacy, 48 LEDs per foot

Offered in a single output with excellent color rendering and consistency. 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.

FEATURES

- IP67 Wet Location Rated
- High Efficacy: 113 Lm/W
- Medium Density: 48 LEDs per foot
- One (1) Wattage/Lumen options
- 90+ CRI and <5 SDCM ensures excellent color rendering and consistency
- 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



cCSAus
Listed



Suitable for
Wet Locations



Declare™
Listed



RoHS
Compliant



IP67
Rated



90+ CRI



Phase / 0-10V
Dimming



5
STEP
Color
Consistency

SERIES	AFSS48-7H
WATTAGE	7W/Ft
LUMEN OUTPUT ¹	866Lm/Ft
HIGH EFFICACY ¹	113Lm/W
MAX RUN LENGTH	16.4Ft
LED DENSITY	48 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
COLOR TEMPERATURE	2700K / 3000K / 3500K / 4000K / Consult factory for additional CCT options
CRI	90+, R9 >84
COLOR CONSISTENCY	<5 SDCM (Standard Deviation Color Matching)
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. Approximate lumen output based on 3000K performance; see photometric test results for additional information

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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: AFSS48-7H30K-R

Series	CCT ¹ /CRI	Location	Illuminated Length
AFSS48-7H Static White: 48LEDs/Ft, 7W/Ft, High Efficacy	90+ CRI 27K 2700K 30K 3000K 35K 3500K 40K 4000K	7 IP67 Wet Location	R Full Reel with 72-inch Power lead 7W/Ft: 16.4 Ft Reel

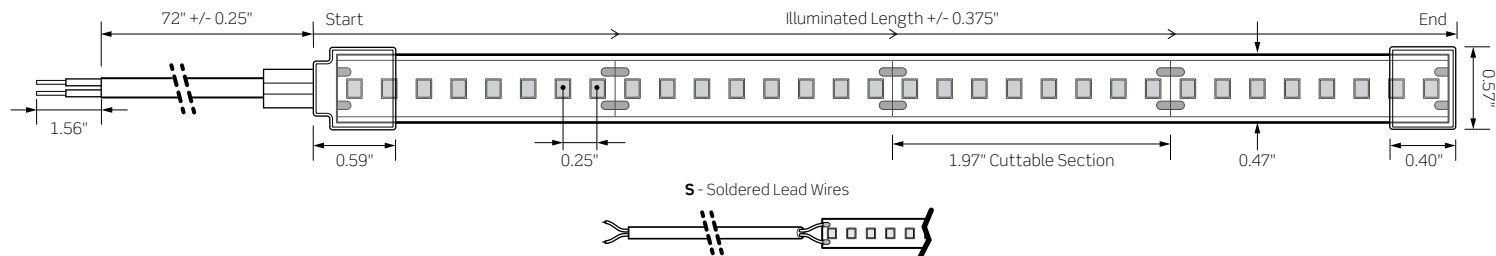
CUSTOM LENGTHS

- 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: AFSS48-7H30K-S-NT-C188

Series	CCT ¹ /CRI	Location	Start Termination	End Termination	Custom Length
AFSS48-7H Static White: 48LEDs/Ft, 7W/Ft, High Efficacy	90+ CRI 27K 2700K 30K 3000K 35K 3500K 40K 4000K	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 AFSS48 Series has a cut increment of 1.97-inches, illuminated length will be rounded down to nearest cut increment

1. Consult factory for additional CCT options; allow additional lead time for special request CCTs
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



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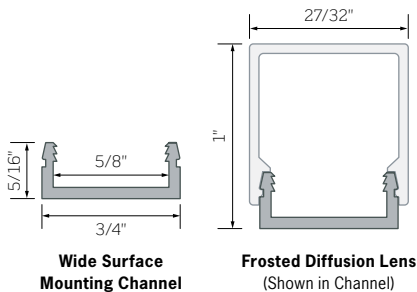
24V MOUNTING CHANNELS AND ACCESSORIES

- 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

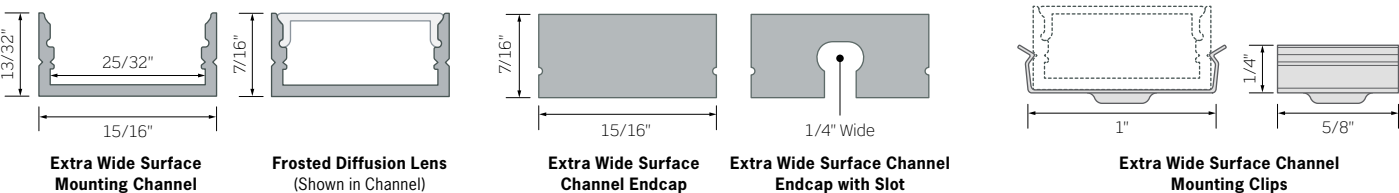
WIDE SURFACE MOUNTING CHANNEL



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

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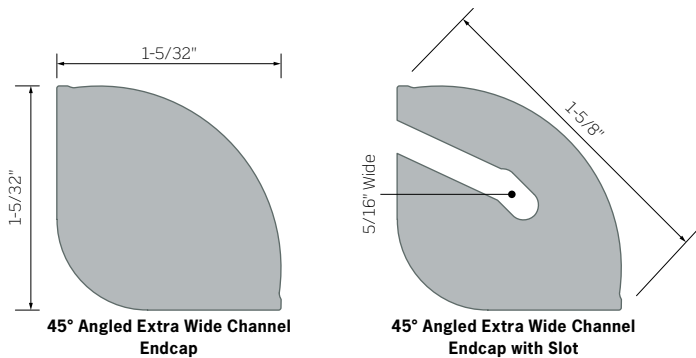
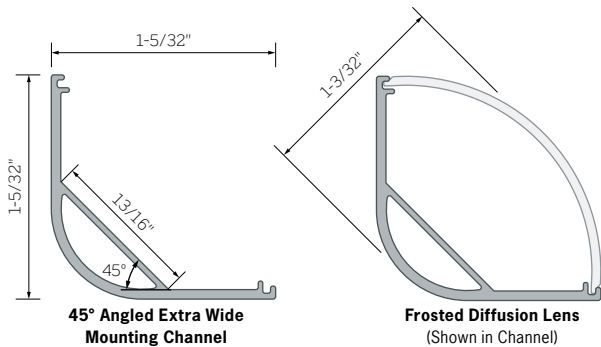
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24V MOUNTING CHANNELS AND ACCESSORIES

45° ANGLED EXTRA WIDE MOUNTING CHANNEL

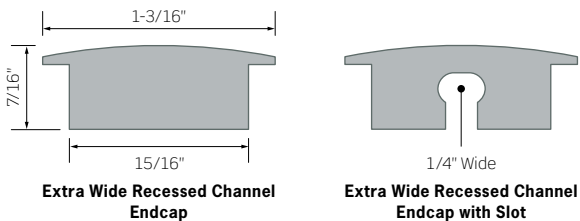
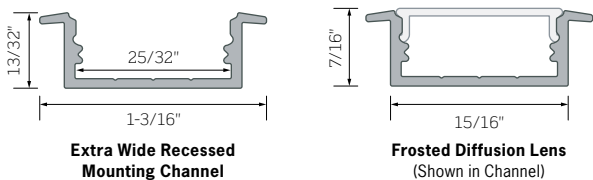


Channel and Lens	
AFEX2030A72-S	6 Ft. 45° Angled Extra Wide Mounting Channel, Aluminum
AFL20A72-FR	6 Ft. 45° Angled Extra Wide Channel Diffusion Lens, Frosted; No Pixelation with Diffusion Lens

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

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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



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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	
TLA0SG	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)



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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)



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PRODUCT SPECIFICATIONS

CONSTRUCTION

- Medium Density Flex Strip: 48 LEDs per foot
- High Efficacy: 113 Lm/W
- 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

- **Color Temperature:**
2700K, 3000K, 3500K, 4000K
Consult factory for additional CCT options
- **CRI:**
90+, R9 >84
- **Color Consistency:**
<5 SDCM

ELECTRICAL

- **Input Voltage:**
24VDC
- **Average Power Consumption/Wattage:**
7W per Foot
- **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

- cCSAus 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

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PHOTOMETRICS

AFSS48-7H30K-7: 24V High Efficacy Wet Location SpecFlex Strip Light

7W/Ft, 48LEDs/Ft, 1-Foot Strip, 3021K, 92 CRI

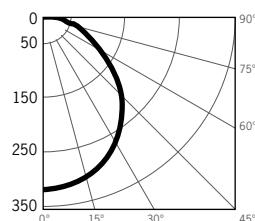
Fixture Delivered Lumens: 865.6
Total Watts@24V: 7.7
Lumens Per Watt: 112.4
Center Beam Candle Power: 319
Beam Distribution: 106°
Spacing Criterion: 1.25

LM-63 Test No. G22050607
LM-79 Test No. S22050607

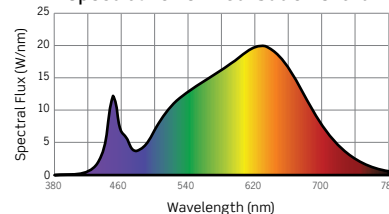
Intensity Distribution

DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIA. (FT.)
2 FT	79.7	5.3
4 FT	19.9	10.7
6 FT	8.9	16.0
8 FT	5.0	21.4
10 FT	3.2	26.7
12 FT	2.2	32.1

Candela Curve



Spectral Power Distribution Chart¹



1. Colors Present within the Light Source

CCT MULTIPLIERS

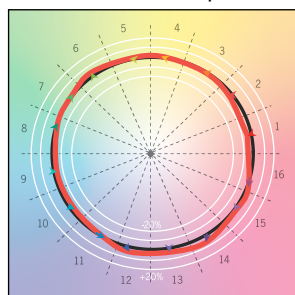
2700K	3000K	3500K	4000K
0.98	N/A	1.02	1.05

AFSS48-7H30K TM-30 DATA

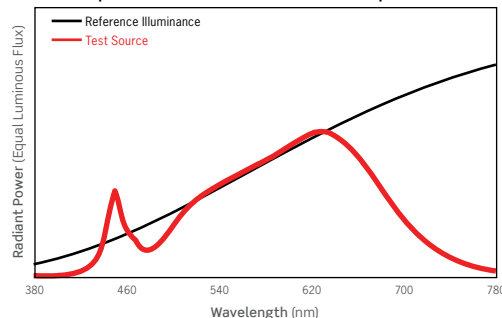
ANSI/IES TM-30-18 Color Rendition Report Test No. S22050607

Colors are for visual orientation purposes only

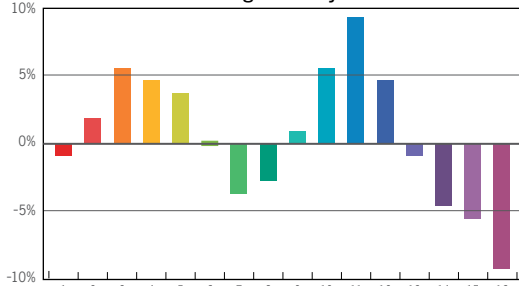
Color Vector Graphic



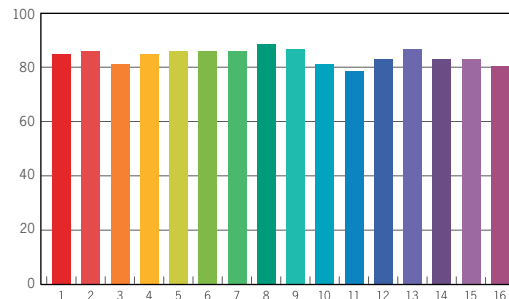
Spectral Power Distribution Comparison



Percentage Shift by Hue



R_f by Hue



HUE BIN	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
HUE SHIFT	-1%	2%	6%	5%	4%	0%	-4%	-3%	1%	6%	10%	5%	-1%	-5%	-6%	-10%
R _f VALUE	92	93	88	92	93	93	93	96	95	89	86	88	94	90	91	87

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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
	Illuminatech	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	Illuminatech	IP710-DLX, IP710-LFZ
Lutron	Diva	DVSCSTV, DVSCSTV, DVSTV, DVTV, DVTV-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	AFSS48-7H
Wattage	Max Run Length
20W	2 FT
36W	4 FT
60W	8 FT
96W	16 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.