LEVITON® | ConTech

Specflex | AFLSPVN Slot Linear Luminaire
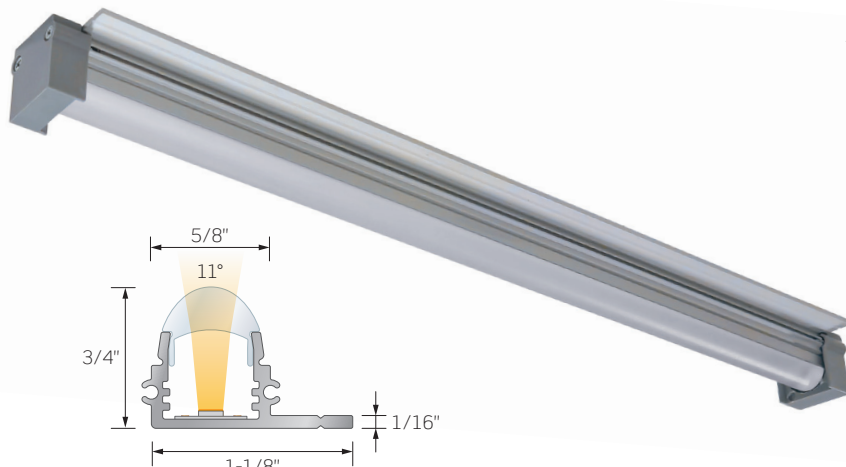## Architectural Strip Lighting | with 24V Static White, Medium Density (48 LEDs per foot), High Efficacy Strip Light

A compact and customizable luminaire offering a precise optical beam ideal for architectural reveals and grazing applications

- **cCSAus Listed**
- **RoHS Compliant**
- **90+ CRI**
- **2 STEP Color Consistency**
- **DIM Phase/0-10V Dimming**

FEATURES

- Unique Channel Design enables simple installation and alignment without the need for secondary mounting clips
- 11° Beam spread perfect for grazing applications
- Excellent color rendering and consistency: 90+ CRI within <2 SDCM
- 6W per Foot delivering up to 393 Lumens per foot
- Select from six (6) nominal lengths or build to size in 2-inch intervals up to 72-inches (minimum length: 3-inches)
- In-line Connectors available for seamless joins of up to 16.4-feet

AFLSPVNNL-487H	-12	-24	-36	-48	-60	-72	-CXX
NOMINAL LENGTH	12-Inches	24-Inches	36-Inches	48-Inches	60-Inches	72-Inches	Custom Length Up to 72-Inches
PHYSICAL LENGTH	10-3/4-Inches	22-9/16-Inches	34-3/8-Inches	44-3/16-Inches	60-Inches	71-13/16-Inches	Up to 71-13/16-Inches
WATTAGE	6W	13W	20W	27W	36W	43W	6W/Ft.
LUMEN OUTPUT[1]	393Lm	862Lm	1333Lm	1803Lm	2352Lm	2822Lm	393Lm/Ft.
COLOR TEMPERATURE	2700K / 3000K / 3500K / 4000K / Consult factory for additional CCT options						
COLOR CONSISTENCY	<2 SDCM						
CRI	90+, R9 >84						
LED DENSITY	48 LEDs/Foot						
BEAM SPREAD	11° Grazer						
MAX ILLUMINATED LENGTH	196.8-Inches/16.4-Feet						
DIMMING	Forward/Reverse Phase and 0-10V; Class 2 LED Drivers only						
OPERATING VOLTAGE	24V DC						
OPERATING TEMPERATURE	−25° to 40°C (−13° to 104°F)						
LISTINGS	cCSAus Certified using U.S. (UL) and Canadian (CSA) Standards For Dry Locations only RoHS Compliant						
WARRANTY	Five (5) year replacement after date of purchase						
SYSTEM RATING	50,000 Hours @ 70% Lumen Maintenance						

1. Approximate lumen output based on 3000K performance; see photometric test results for additional information

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ORDERING INFORMATION

1. Select Color Temperature (CCT)
2. Select Start and End Caps: Flat, In-Line, or with 6–inch Cable and Male or Female Connector
3. Select Length: nominal or custom from 3– to 72–inches
4. Select an appropriately sized Driver for the install (page 3); some installations will require multiple Drivers
5. Select required Power Cable (page 4)
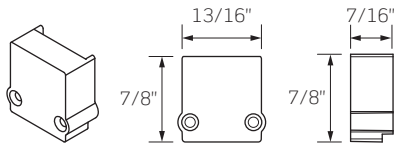6. Select any other Connector Cables (page 4)

Example Order: AFLSPVNNL-487H30K-W-IM-48

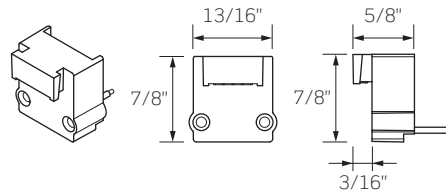| Series	CCT[1]		Start Termination		End Termination		Nominal Length	Custom Nom. Length
AFLSPVNNL-487H Slot Linear Luminaire	**22K**[1] 2200K **24K**[1] 2400K **27K** 2700K **30K** 3000K **35K** 3500K **40K** 4000K		**W** Endcap (Flat) **WF** Endcap with 6-Inch Female Connector **WM** Endcap with 6-Inch Male Connector **IM** In-line Male Connector **IF** In-line Female Connector		**W** Endcap (Flat) **WF** Endcap with 6-Inch Female Connector **WM** Endcap with 6-Inch Male Connector **IM** In-line Male Connector **IF** In-line Female Connector		**12** 12-Inches; *10-3/4-In. Actual* **24** 24-Inches; *22-9/16-In. Actual* **36** 36-Inches; *34-6/16-In. Actual* **48** 48-Inches; *46-1/4-In. Actual* **60** 60-Inches; *60-In. Actual* **72** 72-Inches; *71-13/16-In. Actual*	**CXX**[2] Custom Length; *Max Length: 72-In.*

1. Custom CCTs available, consult factory; additional lead time and minimum order quantity (MOQ) may be required
2. CUSTOM LENGTHS
   – Custom lengths cannot exceed the Maximum Run Length
   – Custom lengths are made-to-order and are not returnable; approved submittal sheets are required before processing the order
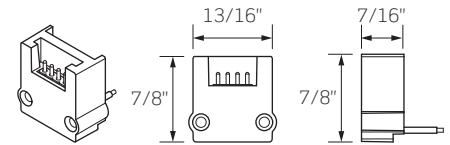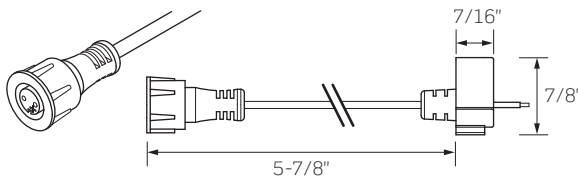
Start/Left — End/Right

1-1/4" · 13/16" · 7/8" · 1-1/4"

Nominal Length of 12" to 72"; Custom Lengths Available (Max. 72")

Flat Endcap (–W)
13/16" · 7/8" · 7/16" · 7/8" · 7/8"

In-Line Female Connector (–IF)
13/16" · 7/8" · 5/8" · 7/8" · 3/16"

In-Line Male Connector (–IM)
13/16" · 7/8" · 7/16" · 7/8"

Endcap with 6" Female Connector (–WF)
7/16" · 7/8" · 5-7/8"

Endcap with 6" Male Connector (–WM)
7/16" · 7/8" · 6-3/16"
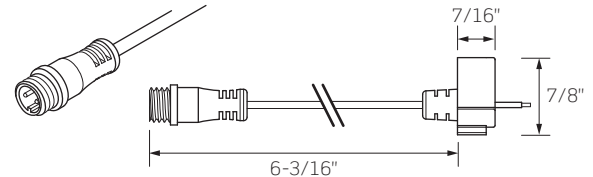
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24V HARDWIRE LED DRIVERS
Dimming Specifications on Page 5

TLP24VHW*MVD-ENC Series
Hardwire Class 2 Constant Voltage Enclosed Driver

- 120–277VAC Input/24VDC output
- Forward/Reverse Phase and 0–10V dimmable
- Smooth, flicker free linear dimming down to 1%
- Dim-to-off when used with a 0–10V Dimmer
- No minimum load requirement
- Over voltage, current, temperature, and short-circuit protection

TLP24VHW*MVD-ENC Series		Max Run[3]
TLP24VHW60MVD-ENC	60W Driver; 8" L x 3-3/8" W x 1-1/4" D	8-Ft.
TLP24VHW100MVD-ENC	96W Driver; 8-1/4" L x 4-1/8" W x 1-1/2" D	16-Ft.

TLP24VHW Series
Hardwire Class 2 Constant Voltage Enclosed Driver

- 120–277VAC Input/24VDC output; no minimum load requirement
- Dimming and Non-Dimming models
- Dimming Driver delivers smooth, flicker free, linear dimming down to 1% with compatible dimmers
- UL Listed enclosure with built-in Junction Boxes
- 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

TLP24VHW Series		Max Run[3]
TLP24VHW60MV2-ENC	60W 0-10V Dimming Driver	8-Ft.
TLP24VHW60MV-ENC	60W Non-Dimming Driver	8-Ft.
TLP24VHW96MV2-ENC	96W 0-10V Dimming Driver	16-Ft.
TLP24VHW96MV-ENC	96W Non-Dimming Driver	16-Ft.

TLP24VHW Series
Hardwire Constant Voltage Enclosed Drivers

- 120VAC/24VDC
- 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)

TLP24VHW20
TLP24VHW60
TLP24VHW96

TLP24VHW Series		Max Run[3]
TLP24VHW20	20W Driver; 5-3/4"L x 1-1/2"W x 1-1/4"D	2-Ft.
TLP24VHW60	60W Driver; 6-1/3" L x 1-3/4" W x 1-1/4" D	8-Ft.
TLP24VHW96	96W Driver: 8-3/4" L x 2-2/3" W x 1-1/2" D	16-Ft.

L3D0 Series
Hardwire Hi-lume™ Premier Driver

- Enclosed Class 2 Listed 96W Constant Voltage Driver
- Dimming down to 0.1% with compatible controls
- Universal 120 - 277VAC input
- Output wattage range 25-96W (max.)
- 5.5" W x 2" H x 10.5" L

L3D0 Series		Max Run[3]
L3D0-96W24V-U	96W Dimming Driver	16-Ft.

3. Max Run refers to the total number of Slot Luminaires that can go on a Driver; if exceeded, damage to the Driver and Luminaire may result
   - Lengths are calculated with 24V DC at the start of the luminaire series. Voltage drop may occur if not using proper wire gauge; refer to the Voltage Drop and Wire Length Distance chart (right)
   - The lengths above are calculated with no more than 30% light loss from the start of the series to the end of the series for optimal light consistency. If run lengths are extended beyond the recommended lengths noted above, there will be inconsistent light output and voltage drop.

24V VOLTAGE DROP/WIRE LENGTH

This chart provides general guidelines for determining the wire gauge to be used based on total load and distance from the Driver to the beginning of the Slot Luminaire run, allowing a 3% voltage drop

WIRE GAUGE	DRIVER WATTAGE		
	20W	60W	96W
22 AWG	27 FT	9 FT	5 FT
20 AWG	43 FT	14 FT	9 FT
18 AWG	68 FT	23 FT	14 FT
16 AWG	109 FT	36 FT	23 FT
14 AWG	174 FT	57 FT	36 FT
12 AWG	272 FT	90 FT	57 FT
10 AWG	432 FT	144 FT	90 FT

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24V POWER CABLES
One (1) Power Cable with Female End is required to make the connection to the first luminaire in a series

AFCWDC6F-S
Quick Connect Driver Power Cable

- Driver Strain Relief with female end
- 6-Inch Connector cable
- Strain Relief installs in Driver knock out
- Quick, low voltage screw connection to fixture or extension cable
- Gray finish

Quick Connect Power Cable	
AFCWDC6F-S	6-Inch Driver Quick Connect, Female End

AFCWP Series
Hardwire Driver Power Cables

- Includes Wire Pigtail End and one (1) male or female Barrel Plug Connector end
- 72-Inches Long
- Gray finish

Hardwire Power Cables	
AFCWPF72-S	72-Inch Power Cable, Female End
AFCWPM72-S	72-Inch Power Cable, Male End

24V EXTENSION AND SPLITTER CABLES

AFCWEX Series
Extension Cables

- Female to male Extension Cables
- 36- or 120-Inches long
- Includes one (1) male and one (1) female Connector
- Gray finish

Extension Cables	
AFCWEX36-S	36-Inch Extension Cable
AFCWEX120-S	120-Inch Extension Cable

AFCW*Y Series
Power Cable Splitters

- Single to two- or three-connector Power Splitters
- Includes one (1) male and two (2) or three (3) female Connectors
- 15-Inches long
- Gray finish

Hardwire Power Cables	
AFCW2Y-S	15-Inch 2-Way Splitter (1 Male and 2 Female Connectors)
AFCW3Y-S	15-Inch 3-Way Splitter (1 Male and 3 Female Connectors)

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PRODUCT SPECIFICATIONS

CONSTRUCTION
- Anodized Aluminum Housing provides excellent heat sinking and protection to the LEDs
- Available in six (6) standard lengths or built-to-size in 2–inch intervals up to 72–inches (minimum length: 3–inches)
- Custom Lengths cannot exceed the maximum run length for the specified wattage, are made-to-order, and are not returnable; **approved submittal sheets are required before processing the order**
- End Caps are made of ABS grey plastic; select from Flat, In-Line, or with 6–inch Connector (Male or Female)
- Power, Extension, and Splitter Cable options available for seamless/continuous joins up to 16.4–feet
- Ambient operating temp: –25° to 40°C (–13° to 104°F)

STRIP LIGHT
- Specifier Grade high efficacy flex strip with 48 LEDs per foot
- 6W per Foot average power consumption
- High efficacy of 445 lumens per foot
- Select from 2700K, 3000K, 3500K, and 4000K Color Temperatures; additional CCTs available; consult factory for minimum order quantity (MOQ) and lead times
- CRI of 90+, R9 value >84
- Color consistency within <2 SDCM

OPTIC
- 11° Grazer beam

DRIVER OPTIONS
- Select from a variety of dimming and non-dimming Driver options; Drivers are ordered separately
- 0–10V and Phase (Forward/Reverse) dimming options
- Class 2 Listed constant voltage Drivers

INSTALLATION
- The Slot Luminaire can be fastened to most surfaces using self-tapping screws or double-sided tape (provided by others)
- A grooved line on the luminaire flange ensures fixture-to-fixture alignment

CERTIFICATION
- cCSAus Certified to UL and CSA Standards; suitable for Dry Locations
- RoHS Compliant

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

FORWARD PHASE DIMMING
Incandescent 120V AC Dimmers adjust the light with forward phase control, where the Dimmer "chops" the forward part of the AC wave to deliver less or more power to the light source. No neutral wire connection required.

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
Legrand	Adorne	ADTP703TU, ADPD153L

REVERSE PHASE DIMMING
Electronic Low Voltage 120V AC Dimmers adjust the light with reverse phase control, where the Dimmer "chops" the back part of the AC wave to deliver less or more power to the light source. Neutral wire connection required.

MANUFACTURER	PRODUCT	MODEL
Leviton	Decora Digital	DDE06
Lutron	Diva	DVELV-300P-WH
	Skylark	SELV-300P-WH

0-10V DIMMING
0–10V DC Low Voltage Dimmers operate using two (2) low voltage dimming wires separate from the 120V or 277V AC power. The Dimmer sends a variable output voltage to the luminaire based upon the dimming level. Dimming operation is controlled with the 0–10V DC low voltage wiring connection between the Dimmer and the Driver. The control signal runs on two (2) low voltage control wires color coded violet and pink/gray.

| MANUFACTURER	PRODUCT	MODEL
Leviton	IllumaTech	IP710-DLX, IP710-LFZ
Lutron	Diva	DVSCSTV, DVSCTV, 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 LEDs may differ from published traditional source Dimmer ratings; consult manufacturer for maximum Dimmer information
- Consult factory for additional dimming information

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Illuminated Length

Nominal/Actual Length
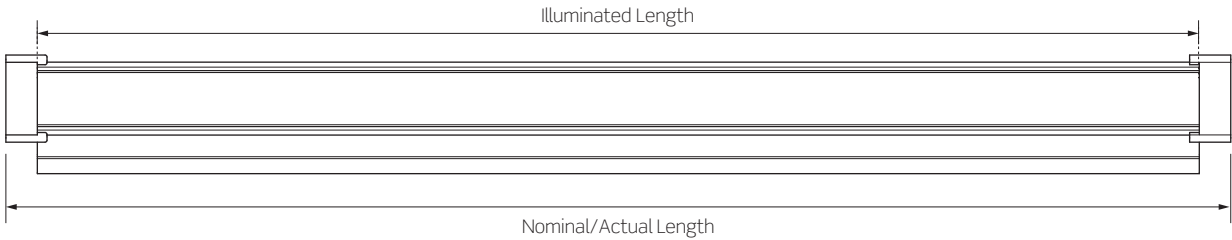
PRODUCT SPECIFICATIONS

NOMINAL LENGTH	ACTUAL LENGTH	ILLUMINATED LENGTH	DELIVERED LUMENS	WATTS CONSUMED
3–Inches	2-7/8–Inches	2–Inches	78.4 Lumens	1.19 Watts
5–Inches	4-13/16–Inches	4–Inches	156.8 Lumens	2.38 Watts
7–Inches	6-13/16–Inches	6–Inches	235.2 Lumens	3.57 Watts
9–Inches	8-3/4–Inches	7-7/8–Inches	313.6 Lumens	4.76 Watts
12–Inches	10-3/4–Inches	9-7/8–Inches	392.0 Lumens	5.95 Watts
13–Inches	12-11/16–Inches	11-13/16–Inches	470.4 Lumens	7.14 Watts
15–Inches	14-11/16–Inches	13-13/16–Inches	548.8 Lumens	8.33 Watts
17–Inches	16-5/8–Inches	15-3/4–Inches	627.2 Lumens	9.52 Watts
19–Inches	18-5/8–Inches	17-3/4–Inches	705.6 Lumens	10.71 Watts
21–Inches	20-9/16–Inches	19-11/16–Inches	784.0 Lumens	11.90 Watts
24–Inches	22-9/16–Inches	21-11/16–Inches	862.4 Lumens	13.09 Watts
25–Inches	24-1/2–Inches	23-5/8–Inches	940.8 Lumens	14.28 Watts
27–Inches	26-1/2–Inches	25-9/16–Inches	1019.2 Lumens	15.47 Watts
29–Inches	28-7/16–Inches	27-9/16–Inches	1097.6 Lumens	16.66 Watts
31–Inches	30-7/16–Inches	29-1/2–Inches	1176.0 Lumens	17.85 Watts
33–Inches	32-3/8–Inches	31-1/2–Inches	1254.4 Lumens	19.04 Watts
36–Inches	34-3/8–Inches	33-1/2–Inches	1332.8 Lumens	20.23 Watts
37–Inches	36-5/16–Inches	35-1/2–Inches	1411.2 Lumens	21.42 Watts
39–Inches	38-5/16–Inches	37-7/16–Inches	1489.6 Lumens	22.61 Watts
41–Inches	40-1/4–Inches	39-3/8–Inches	1568.0 Lumens	23.80 Watts
43–Inches	42-1/4–Inches	41-3/8–Inches	1646.4 Lumens	24.99 Watts
45–Inches	44-3/16–Inches	43-5/16–Inches	1724.8 Lumens	26.18 Watts
48–Inches	46-3/16–Inches	45-5/16–Inches	1803.2 Lumens	27.37 Watts
49–Inches	48-1/8–Inches	47-1/4–Inches	1881.6 Lumens	28.56 Watts
51–Inches	50-1/8–Inches	49-1/4–Inches	1960.0 Lumens	29.75 Watts
53–Inches	52-1/8–Inches	51-1/4–Inches	2038.4 Lumens	30.94 Watts
55–Inches	54-1/16–Inches	53-3/16–Inches	2116.8 Lumens	32.13 Watts
57–Inches	56-1/16–Inches	55-3/16–Inches	2195.2 Lumens	33.32 Watts
58–Inches	58–Inches	57-1/8–Inches	2273.6 Lumens	34.51 Watts
60–Inches	60–Inches	59–Inches	2352.0 Lumens	35.70 Watts
62–Inches	61-15/16–Inches	61–Inches	2430.4 Lumens	36.89 Watts
64–Inches	63-15/16–Inches	63–Inches	2508.8 Lumens	38.08 Watts
66–Inches	65-7/8–Inches	65–Inches	2587.2 Lumens	39.27 Watts
68–Inches	67-7/8–Inches	67–Inches	2665.6 Lumens	40.46 Watts
70–Inches	69-13/16–Inches	69–Inches	2744.0 Lumens	41.65 Watts
72–Inches	71-13/16–Inches	71–Inches	2822.4 Lumens	42.84 Watts

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PHOTOMETRIC DATA

AFLSPVNNL-487H30K-WFW-12: 7W Spot Luminaire, 3000K, 12-Inches Long

LM-63 Test No. G25081204; LM-79 Test No. S21012801

Fixture Delivered Lumens: 392.46
Total Watts@24V: 5.63
Lumens Per Watt: 70.08
Center Beam Candle Power: 756
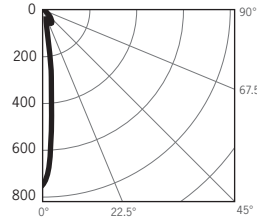Beam Distribution: 10.39°
Spacing Criterion: 0.20
Color Rendering Index (CRI)[1]: 94
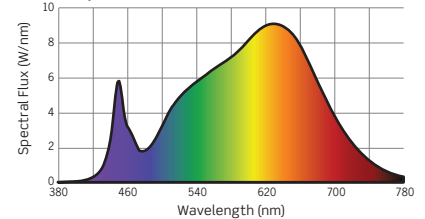Color Temperature (CCT)[2]: 3064K
Designed for 50,000 Hour Lamp Life[3]

Intensity Distribution

DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIA. (FT.)
4 FT	47.2	0.7
6 FT	21.0	1.1
8 FT	11.8	1.5
10 FT	7.6	1.8
12 FT	5.2	2.2
14 FT	3.9	2.5

Candela Curve

Spectral Power Distribution Chart[4]

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

PHOTOMETRIC MULTIPLICATION FACTORS

Lumen output values fluctuate based on Color Temperature. To estimate lumen output of these various options, multiply 3000K results by the following:
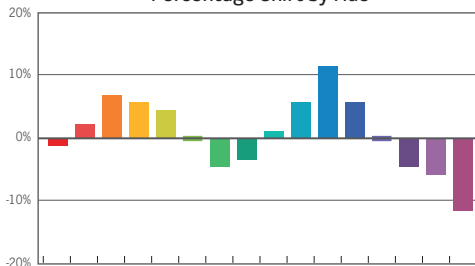
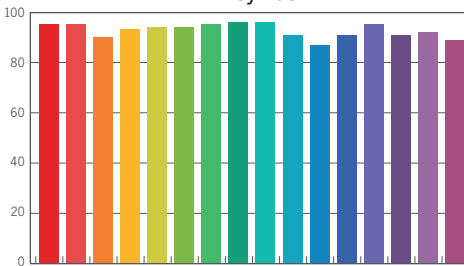| CCT MULTIPLIERS			
CCT	90+ CRI	CCT	90+ CRI
2700K	0.98	3500K	1.02
3000K	1.00	4000K	1.05

TM-30 DATA

ANSI/IES TM-30-18 Color Rendition Report Test No. S25010601
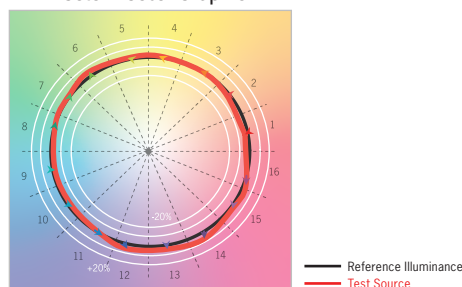
Percentage Shift by Hue

Rf by Hue

Spectral Power Distribution Comparison

— Reference Illuminance
— Test Source
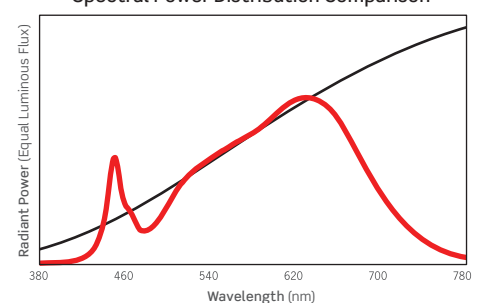
HUE BIN	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
HUE SHIFT	−1%	2%	6%	5%	4%	0%	−4%	−3%	1%	5%	10%	5%	0%	−4%	−5%	−10%
Rf VALUE	94	94	89	92	93	93	94	95	95	90	86	90	94	90	91	88

R_f	92
R_g	102
CCT(K)	3064K
D_{uv}	− 0.0012
u^1	0.2488
v^1	0.5185

Color Vector Graphic

— Reference Illuminance
— Test Source

Colors are for visual orientation purposes only