



# How to Specify

Example:

**Fixture selection:** BEAM 2 Square Pendant Direct

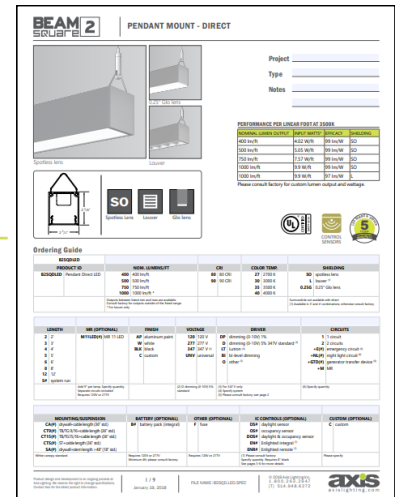
From Step 3, verify fixture/technology compatibility in given matrix. Click on fixture image to pull up ordering cut sheet, seen on the left.

**Technology selection:** 2700K to 5000K Tunable White

From STEP 1, note technology code (TW2750) in COLOR TEMP field.

**Control selection:** DALI TYPE 6

From Step 2, note control code (DALIDT6) in DRIVER field.



See STEP 3

**B2SQDLED**

**400**

**90**

See STEP 1

**TW2750**

**UB**

PRODUCT ID	NOM. LUMENS/FT	CRI	COLOR TEMP.	SHIELDING
<b>B2SQDLED</b> Pendant Direct LED	400 400 lm/ft	80 80 CRI	<b>TW2750</b> 2700-5000K	SO spotless lens
	500 500 lm/ft	90 90 CRI	<b>TW 2765</b> 2700-6500K	L louver (1)
	750 750 lm/ft		<b>DW3020</b> 3000-2000K	0.25G 0.25" Glo lens
	1000 1000 lm/ft *		<b>TC1680</b> 1650-8000K	UB Ultra blend
Outputs between listed min and max are available. Consult factory for outputs outside of the listed range. * For louvers only			SurroundLite not available with direct (1) Available in 3' and 4' combinations; otherwise consult factory.	

See STEP 2

**8**

**AP**

**UNV**

**DALIDT6**

**1**

LENGTH	MR (OPTIONAL)	FINISH	VOLTAGE	DRIVER	CIRCUITS	
2 2'	<b>DMLED(#)</b> downlight modle LED	<b>AP</b> aluminum paint	<b>120</b> 120 V	<b>DP</b> dimming (0-10V) 1%	<b>1</b> 1 circuit	
3 3'		<b>W</b> white	<b>277</b> 277 V	<b>LT</b> Lutron (3)	<b>2</b> 2 circuits	
4 4'		<b>BLK</b> black	<b>347</b> 347 V (2)	<b>O</b> other (4)	+ <b>E(#)</b> emergency circuit (5)	
5 5'		<b>C</b> custom		<b>UNV</b> universal	<b>DALIDT6</b> DALI Type 6 (Two DALI Addresses)	+ <b>NL(#)</b> night light circuit (5)
6 6'					<b>LTTW</b> Lutron T-Series Tunable White	+ <b>GTD(#)</b> generator transfer device (5)
8 8'					<b>DMX</b> DMX - Standard	+ <b>M</b> MR
12 12'					<b>LTA5</b> Lutron Araya 5 Ecosystem	
<b>S#</b> system run				<b>DALIDT8</b> Dali Type 8 (single Dali Address)		
				<b>DLM</b> Wattstopper DLM		
Add 9" per lamp. Specify quantity. Separate circuits included. Requires 120V or 277V.			(2) D dimming (0- 10V) 5% standard	(3) Specify system. Choose from LDE1, LDE5, LTE. (4) Please consult factory; see page 2. Refer to step 2 for the list of available drivers for the different colour options.	(5) Specify quantity	

- Dim to Warm (DW)
- Tunable White (TW)
- Colour Tuning (CT)

1. Tunable White dim to warm and Color Tuning technologies are **NOT AVAILABLE** with integrated sensors.
  2. Tunable White and dim to warm technologies are **AVAILABLE** with battery packs connected to the cool color.
  3. Color tuning technologies are **AVAILABLE** with GTD.
- Please consult factory for additional information.

## The Axitune Advantage.

Putting intelligence inside to make color quality simple.

The ability to change color for various applications is a tremendous evolution in lighting, but it comes with increased complexity. Axitune technologies have been developed to make it simple for you. Our color capable luminaires have reduced external programming requirements and put the intelligence inside to optimize for the features and benefits you need most.

- ◇ **Dim to Warm (DW).** 2000-3000K, no added control system required, a consistent and linear dimming curve every time using any dimmable driver. As you dim color goes from cool to warm.
- ◇ **Tunable White (TW).** Simple, intuitive 2-channel control over CCT and Brightness. Axitune intelligence in the luminaire takes care of the LEDs and control. Select the color temp and you can dim it.
- ◇ **Color Tuning (CT).** Axitune technology resolves 5-colors into high performance color control with 90+ CRI at all CCT's. Delivers high quality white as well as deep saturated colors. Fixture to fixture consistency is assured by intelligence in the luminaire.



*Axis luminaire optics are designed to support internal color mixing with SurroundLite, UltraBlend lenses, & louvers. We deliver uniform lens appearance and uniformity, and neutral grey shadows.*

## Color System Testing

Axis has performed extensive system testing of technologies to ensure proper system performance across the factors that matter most to specifiers, architects, owners, occupants and installers.

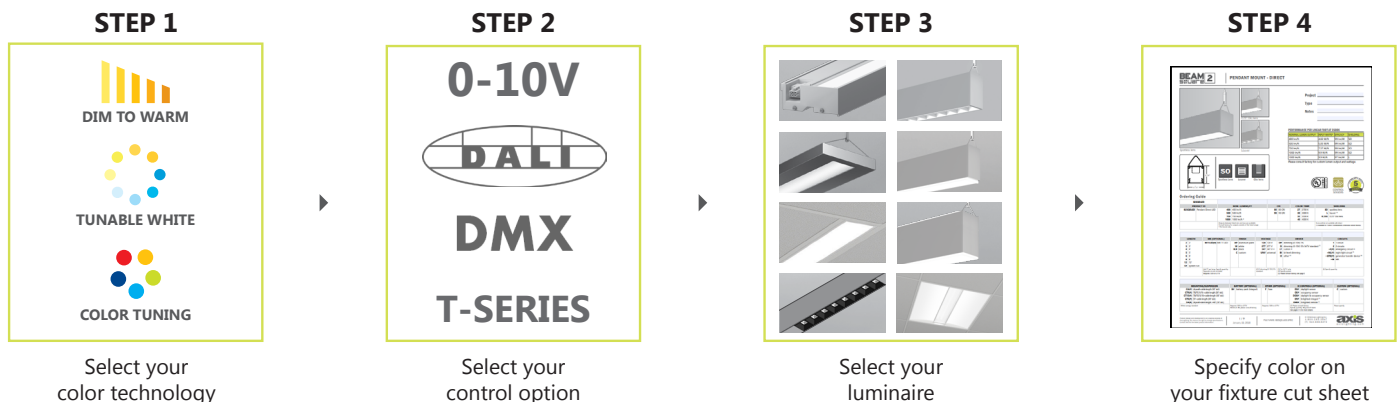
- ✓ Electronics
- ✓ Calibration
- ✓ User Interface
- ✓ Human Factors
- ✓ CRI
- ✓ Efficiency
- ✓ Duv
- ✓ TM30
- ✓ Controls and Protocols
- ✓ Spectral Power Distribution



*Axis Color Lab, Research partnership with National Research Council of Canada*

## Specifying Axis Color Technology

Axis color systems can be specified in 4 easy steps. Details are provided below.



# STEP 1

## Select Your Technology

### Dim to Warm (DW)



## DIM TO WARM

CCT Range	Ordering Code	Available CRI
3000K to 2000K	<b>DW3020</b>	90

Creates a transition from general lighting to ambient dimming while providing rich warmth to any room. In these applications you start with a CCT of 3000K and as you dim the color temperature goes to a warm color of 2000K, which has been validated in research as a preferred range. Axis Dim to Warm works with any constant current driver up to 100W.

### How It Works

A current sensing system allows users to transition CCT from 3000K to 2000K while simultaneously dimming the light source along a linear curve.

### Tunable White (TW)



## TUNABLE WHITE

CCT Range	Ordering Code	Available CRI
2700K to 5000K	<b>TW2750</b>	80 or 90
2700K to 6500K	<b>TW2765</b>	80 or 90

Dynamic White Lighting allows for tailored color mixing resulting in a wide range of CCTs to meet user's changing needs and preferences. We are offering two ranges of CCT to meet market demand, but TW2750 provides color mixing closer to the Black Body locus and minimizes Duv. Internal color mixing and proprietary lens technology assures the best in color uniformity and consistency.

### How It Works

These 2-channel systems allow users to independently adjust CCT and brightness to their desired effect. White LED's have been specially selected to optimize color quality. Both systems dim along a constant linear dimming curve to 1%.

### Colour Tuning (CT)



araya<sup>5</sup>  
TUNABLE COLOR

## COLOR TUNING

CCT Range	Ordering Code	Available CRI
1650K to 8000K	<b>TC1680</b>	90

Araya 5 achieves a full range and spectrum of color using DMX. The system delivers superior color while also allowing control over saturation and hue, so designers and users can use color as a design tool and render objects in the space intentionally. Araya 5 uses slightly different colors than RGBW because it delivers a superior white along with wide ranging saturation and hue.

### How It Works

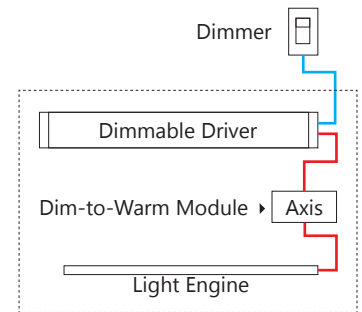
Araya 5 Tunable Color is a 4 channel system that delivers full spectrum light using five colors (royal blue, blue, lime green, amber and red). Users can tailor brightness, CCT, Saturation and Hue to their desired preferences while maintaining great color consistency (<2 Standard Deviation Color Matching (SDCM)).

# STEP 2

## Select Your Control Option

Dim to Warm is enabled by the Axis dimming module which is compatible with any dimmable driver. The module uses a current sensing system which lowers CCT and brightness at the same time, following a linear curve. The CCT dims from 3000K to 2000K. The light engine is mixing two different colors of mid-power LED chips.

Code	Description
DP	0-10V to 1%
LT	Lutron - Please specify
O	Other (ex. DALI)



**Dim to Warm Control Configuration**

Three controls options available for Tunable White. The DALI\*\*\* protocol is a simple solution for controlling color using two wires with no polarity. DALI protocol supports control of brightness on one channel and CCT on another channel. The DALI system must operate using broadcast or group scene commands so all luminaires change at the same time.

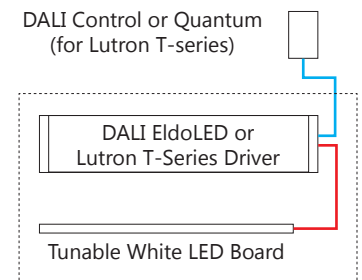
Axis Tunable White is enabled with EldoLED\* DualDrive controller with Lightshape and two addresses per device. TW2750 provide color mixing closer to the Black Body locus and minimizes DUV.

Multiple companies have user interfaces that work with DALIT6 and EldoLED. We have tested several interfaces for compatibility, contact Axis for the latest available options.

Code	Description	Brightness	CCT	Saturation	Hue
DALIDT6	DALI Type 6 (Two DALI Addresses)	✓	✓		
DALIDT8	DALI Type 8 (One DALI Address)	✓	✓		
LTTW**	Lutron T-Series Tunable White	✓	✓		

\*DMX is also supported - contact factory for more information.

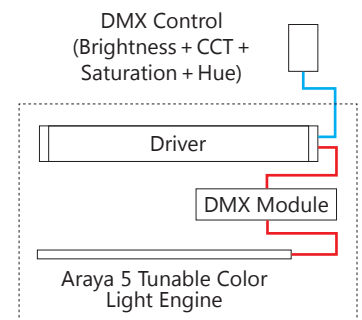
\*\*LTTW is available with luminaires min 3' and longer. For luminaires shorter than 3' please consult factory.



**Tunable White Control Configuration**

Axis color tuning with Araya by Lumenetix\*\* provides a proprietary and patented 5-color mixing system to deliver any point in the color gamut. Precision and consistency is assured by calibration in the factory and active circuitry to adjust for temperature changes over time and from fixture to fixture. Araya5 delivers superior color while also allowing control over saturation and hue, so designers and users can use color as a design tool and render objects in the space intentionally.

Code	Description	Brightness	CCT	Saturation	Hue
DMX	DMX - Standard	✓	✓	✓	✓
LTA5	Lutron Araya 5 Ecosystem	✓	✓		
DALIDT8	DALI Type 8 (single DALI Address)	✓	✓		
DLM	Wattstopper DLM	✓	✓		



**Color Tuning Control Configuration**

# STEP 3

## Select Your Luminaire



Dim To Warm



Tunable White



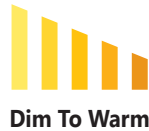
Color Tuning

Ordering Code	DW3020	TW2750	TW2765	TC1680
CCT Range	3000K - 2000K	2700K-5000K	2700K-6500K	1650K-8000K
Available CRI	90 CRI	80 or 90 CRI	80 or 90 CRI	90 CRI
Channel	1	2	2	2 or 4
Compatible Driver Options	DP, LT, O	DALIDT6, DALIDT8, LTTW	DALIDT6, DALIDT8, LTTW	DMX, LTA5, DALIDT8, DLM

		▼	▼	▼	▼
PRODUCT	 <b>202</b> <a href="#">Pendant, Wall</a>	✓	✓	✓	N/A
	 <b>Arc</b> <a href="#">Pendant, Wall</a>	✓	✓	✓	N/A
	 <b>Air</b> <a href="#">Pendant, Surface, Wall</a>	✓	✓	✓	N/A
	 <b>Aura, Dia, Day, Plano, Wave</b> Troffers	✓	✓	✓	N/A
	 <b>Beam 2 Square Direct</b> <a href="#">Pendant, Wall, Surface</a>	✓	✓	✓	N/A
	 <b>Beam 2 Square Indirect</b> <a href="#">Pendant, Wall</a>	✓	✓	✓	N/A
	 <b>Beam 2</b> <a href="#">Recessed</a>	✓	✓	✓	N/A
	 <b>Beam 2 Direct/Indirect, Direct</b> <a href="#">Pendant, Wall, Surface</a>	✓	✓	✓	N/A
	 <b>Beam 2 Indirect</b> <a href="#">Pendant, Wall</a>	✓	✓	✓	N/A
	 <b>Beam 2 MikroLite™ 1.5</b> Pendant <a href="#">Combined, MikroLite Only</a>	✓	✓	✓	N/A
	 <b>Beam 3 Direct/Indirect, Direct</b> <a href="#">Pendant, Wall, Surface</a>	✓	✓	✓	✓
	 <b>Beam 3 Indirect</b> <a href="#">Pendant, Wall</a>	✓	✓	✓	✓
	 <b>Beam 3</b> <a href="#">Recessed, Perimeter Recessed</a>	✓	✓	✓	✓
	 <b>Beam 4 Direct/Indirect, Direct</b> <a href="#">Pendant, Wall, Surface</a>	✓	✓	✓	✓

# STEP 3

## Select Your Luminaire

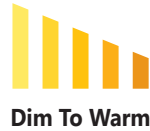


Ordering Code	DW3020	TW2750	TW2765	TC1680
CCT Range	3000K - 2000K	2700K-5000K	2700K-6500K	1650K-8000K
Available CRI	90 CRI	80 or 90 CRI	80 or 90 CRI	90 CRI
Channel	1	2	2	2 or 4
Compatible Driver Options	DP, LT, O	DALIDT6, DALIDT8, LTTW	DALIDT6, DALIDT8, LTTW	DMX, LTA5, DALIDT8, DLM

		▼	▼	▼	▼
PRODUCT	 <b>Beam 4 Indirect</b> <a href="#">Pendant, Wall</a>	✓	✓	✓	✓
	 <b>Beam 4 Mikrolite™ 1.5</b> Pendant <a href="#">Combined</a>	✓	✓	✓	N/A
	 <b>Beam 4</b> <a href="#">Recessed, Perimeter Recessed</a>	✓	✓	✓	✓
	 <b>Beam 6 Direct/Indirect, Direct</b> <a href="#">Pendant, Wall, Surface</a>	✓	✓	✓	✓
	 <b>Beam 6</b> <a href="#">Recessed, Perimeter Recessed</a>	✓	✓	✓	✓
	 <b>Cove Perfekt™</b> Ceiling <a href="#">Hi-Output, Lo-Output</a>	✓	✓	✓	✓
	 <b>Cove Perfekt™</b> Wall <a href="#">Hi-Output, Lo-Output</a>	✓	✓	✓	✓
	 <b>Geometric™</b> <a href="#">Recessed</a>	✓	✓	✓	N/A
	 <b>Graze Perfekt</b> <a href="#">Perimeter, Pendant, Surface</a>	✓	✓	✓	N/A
	 <b>LT SurroundLite®</b> <a href="#">Pendant, Wall</a>	✓	✓	✓	N/A
	 <b>Mini Box</b> <a href="#">Pendant, Wall, Wall Vertical, Surface</a>	✓	✓	✓	N/A
	 <b>Prime</b> <a href="#">Pendant, Wall, Surface</a>	✓	✓	✓	N/A
	 <b>Sculpt™ Direct/Indirect, Direct</b> <a href="#">Pendant, Wall, Surface</a>	✓	✓	✓	N/A
	 <b>Sculpt™ Indirect</b> <a href="#">Pendant, Wall</a>	✓	✓	✓	N/A

# STEP 3

## Select Your Luminaire

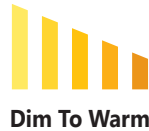


Ordering Code	DW3020	TW2750	TW2765	TC1680
CCT Range	3000K - 2000K	2700K-5000K	2700K-6500K	1650K-8000K
Available CRI	90 CRI	80 or 90 CRI	80 or 90 CRI	90 CRI
Channel	1	2	2	2 or 4
Compatible Driver Options	DP, LT, O	DALIDT6, DALIDT8, LTTW	DALIDT6, DALIDT8, LTTW	DMX, LTA5, DALIDT8, DLM

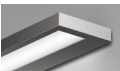
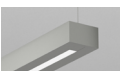





		▼	▼	▼	▼	
PRODUCT		<b>Sculpt™</b> <a href="#">Recessed, Perimeter Recessed</a>	✓	✓	✓	N/A
		<b>Sculpt™ MikroLite™ 1.5</b> <a href="#">Pendant Combined, Direct MikroLite Only, Direct/Indirect MikroLite Only</a>	✓	✓	✓	N/A
		<b>Sculpt™ MikroLite™ 1.5</b> <a href="#">Recessed Combined, MikroLite Only</a>	✓	✓	✓	N/A
		<b>Sculpt™ MikroLite™ 1.5</b> <a href="#">Surface Combined, MikroLite Only</a>	✓	✓	✓	N/A
		<b>Sculpt™ SoftZone® Pendant</b> <a href="#">Direct/Indirect, Direct, Indirect</a>	✓	✓	✓	N/A
		<b>SideStep</b> <a href="#">Pendant</a>	✓	✓	✓	N/A
		<b>Sketch®</b> <a href="#">Recessed</a>	✓	✓	✓	N/A
		<b>SkyeFall Recessed</b> <a href="#">2x2</a>	✓	✓	✓	N/A
		<b>SkyePool Recessed</b> <a href="#">2x2</a>	✓	✓	✓	N/A
		<b>SkyePlane Recessed</b> <a href="#">1x1, 1x2, 1x4, 2x2, 2x4</a>	✓	✓	✓	N/A
		<b>SkyeScape Recessed</b> <a href="#">2x2</a>	✓	✓	✓	✓
		<b>SkyeView Recessed</b> <a href="#">2x2</a>	✓	✓	✓	✓
		<b>SkyeView Recessed</b> <a href="#">1x4</a>	✓	✓	✓	N/A
		<b>Slim Pendant</b> <a href="#">Direct, Semi-Direct, Indirect, Semi-Indirect</a>	✓	✓	✓	N/A

# STEP 3

## Select Your Luminaire



Ordering Code	DW3020	TW2750	TW2765	TC1680
CCT Range	3000K - 2000K	2700K-5000K	2700K-6500K	1650K-8000K
Available CRI	90 CRI	80 or 90 CRI	80 or 90 CRI	90 CRI
Channel	1	2	2	2 or 4
Compatible Driver Options	DP, LT, O	DALIDT6, DALIDT8, LTTW	DALIDT6, DALIDT8, LTTW	DMX, LTA5, DALIDT8, DLM

		▼	▼	▼	▼
	 <b>Slim Wall</b> <a href="#">Indirect</a> , <a href="#">Semi-Indirect</a>	✓	✓	✓	N/A
	 <b>Twig Semi-Indirect</b> <a href="#">Pendant</a> , <a href="#">Wall</a>	✓	✓	✓	N/A
	 <b>Wall Wash Perfekt</b> <a href="#">Recessed</a> , <a href="#">Pendant</a> , <a href="#">Surface</a>	✓ <small>Operating range 3000K to 2200K</small>	✓	N/A	N/A
BALANCEDCARE PRODUCTS	 <b>Flexible Ambient</b> <a href="#">1x1</a> , <a href="#">1x4</a> , <a href="#">2x2</a> , <a href="#">2x4</a>	N/A	✓	✓	N/A
	 <b>Multi-Function Asymmetric Overbed</b> <a href="#">Single</a> , <a href="#">Duo</a>	N/A	✓	✓	N/A
	 <b>Multi-Function Overbed</b> <a href="#">2x2</a> , <a href="#">2x4</a>	N/A	✓	✓	N/A
	 <b>Sconces</b> <a href="#">Box</a> , <a href="#">Open Book</a> , <a href="#">Closed Book</a>	N/A	✓	✓	N/A



# STEP 4

## Specify on your Fixture Cutsheet

### How to Specify your new Axis Tunable Technology.

Example:

**Fixture selection:** BEAM 2 Square Pendant Direct

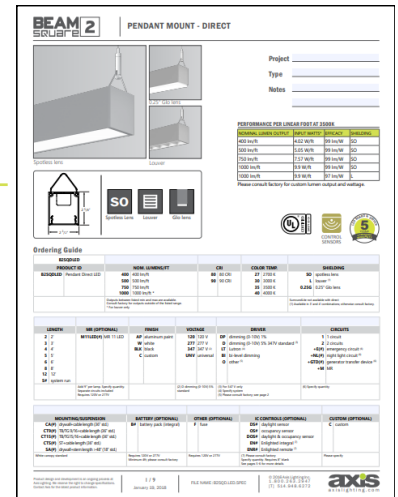
From Step 3, verify fixture/technology compatibility in given matrix. Click on fixture image to pull up ordering cut sheet, seen on the left.

**Technology selection:** 2700K to 5000K Tunable White

From STEP 1, note technology code (TW2750) in COLOR TEMP field.

**Control selection:** DALI TYPE 6

From Step 2, note control code (DALITD6) in DRIVER field.



See STEP 3

**B2SQDLED**

**400**

**90**

See STEP 1

**TW2750**

**UB**

PRODUCT ID	NOM. LUMENS/FT	CRI	COLOR TEMP.	SHIELDING
<b>B2SQDLED</b> Pendant Direct LED	400 400 lm/ft 500 500 lm/ft 750 750 lm/ft 1000 1000 lm/ft *	80 80 CRI 90 90 CRI	<b>TW2750</b> 2700-5000K <b>TW 2765</b> 2700-6500K <b>DW3020</b> 3000-2000K <b>TC1680</b> 1650-8000K	<b>SO</b> spotless lens <b>L</b> louver (1) <b>0.25G</b> 0.25" Glo lens <b>UB</b> Ultra blend
Outputs between listed min and max are available. Consult factory for outputs outside of the listed range. * For louver only			SurroundLite not available with direct (1) Available in 3' and 4' combinations; otherwise consult factory.	

See STEP 2

**8**

**AP**

**UNV**

**DALITD6**

**1**

LENGTH	MR (OPTIONAL)	FINISH	VOLTAGE	DRIVER	CIRCUITS
2 2' 3 3' 4 4' 5 5' 6 6' 8 8' 12 12' S# system run	<b>DMLED(#)</b> downlight modle LED	<b>AP</b> aluminum paint <b>W</b> white <b>BLK</b> black <b>C</b> custom	<b>120</b> 120 V <b>277</b> 277 V <b>347</b> 347 V (2) <b>UNV</b> universal	<b>DP</b> dimming (0-10V) 1% <b>LT</b> Lutron (3) <b>O</b> other (4) <b>DALITD6</b> DALI Type 6 (Two DALI Addresses) <b>LTTW</b> Lutron T-Series Tunable White <b>DMX</b> DMX - Standard <b>LTA5</b> Lutron Araya 5 Ecosystem <b>DALIDT8</b> Dali Type 8 (single Dali Address) <b>DLM</b> Wattstopper DLM	<b>1</b> 1 circuit <b>2</b> 2 circuits <b>+E(#)</b> emergency circuit (5) <b>+NL(#)</b> night light circuit (5) <b>+GTD(#)</b> generator transfer device (5) <b>+M</b> MR
Add 9" per lamp. Specify quantity. Separate circuits included. Requires 120V or 277V.			(2) D dimming (0- 10V) 5% standard	(3) Specify system. Choose from LDE1, LDE5, LTE. (4) Please consult factory; see page 2. Refer to step 2 for the list of available drivers for the different colour options.	(5) Specify quantity

- Dim to Warm (DW)
- Tunable White (TW)
- Colour Tuning (CT)

1. Tunable White dim to warm and Color Tuning technologies are **NOT AVAILABLE** with integrated sensors.
  2. Tunable White and dim to warm technologies are **AVAILABLE** with battery packs connected to the cool color.
  3. Color tuning technologies are **AVAILABLE** with GTD.
- Please consult factory for additional information.