



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 (DALITD6) in DRIVER field.

See STEP 3

B2SQDLED

400

90

See STEP 1

TW2750

UB

| PRODUCT ID | NOM. LUMENS/FT | CRI | COLOR TEMP. | SHIELDING |
|--|--|------------------------|---|--|
| B2SQDLED 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 | TW2750 2700-5000K TW 2765 2700-6500K DW3020 3000-2000K TC1680 1650-8000K | SO spotless lens L louver (1) 0.25G 0.25" Glo lens UB Ultra blend |
| Outputs between listed min and max are available. Consult factory for outputs outside of the listed range. * For louver only | | | Surround Lite 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 | DMLD(#) downlight modle LED | AP aluminum paint W white BLK black C custom | 120 120 V 277 277 V 347 347 V (2) UNV universal | DP dimming (0-10V) 1% LT Lutron (3) O other (4) DALITD6 DALI Type 6 (Two DALI Addresses) LTTW Lutron T-Series Tunable White DMX DMX - Standard LTA5 Lutron Araya 5 Ecosystem DALITD8 Dali Type 8 (single Dali Address) DLM Wattstopper DLM | 1 1 circuit 2 2 circuits + E(#) emergency circuit (5) + NL(#) night light circuit (5) + GTD(#) generator transfer device (5) + M 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.

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.

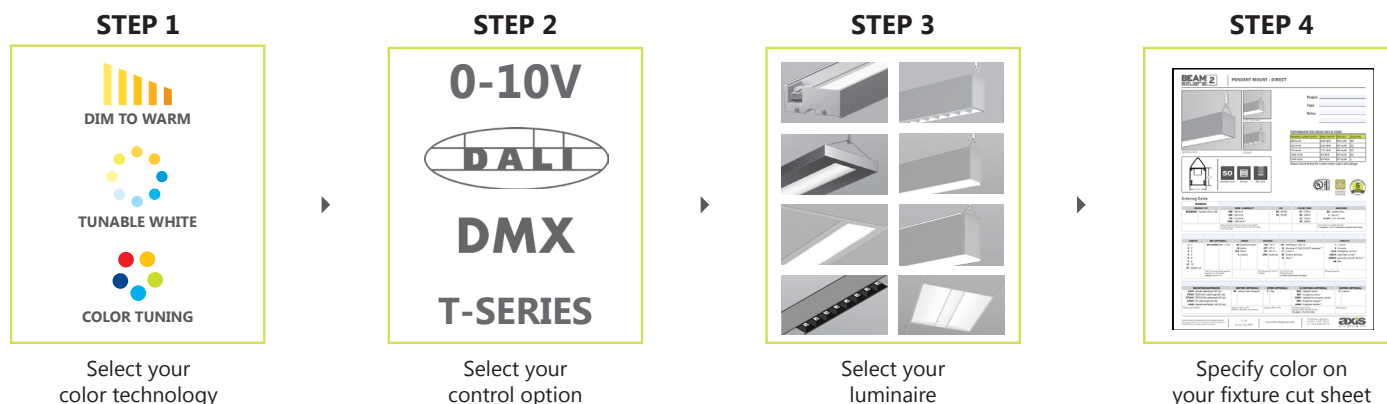
- | | | |
|------------------|--------------|-------------------------------|
| ✓ Electronics | ✓ CRI | ✓ Controls and Protocols |
| ✓ Calibration | ✓ Efficiency | ✓ Spectral Power Distribution |
| ✓ User Interface | ✓ Duv | |
| ✓ Human Factors | ✓ TM30 | |



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

Specifying Axis Color Technology

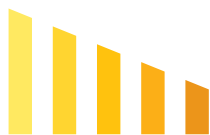
Axis color systems can be specified in 4 easy steps. Details are provided below.



STEP 1

Select Your Technology

Dim to Warm (DW)



DIM TO WARM

| CCT Range | Ordering Code | Available CRI |
|----------------|---------------|---------------|
| 3000K to 2000K | DW3020 | 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 | TW2750 | 80 or 90 |
| 2700K to 6500K | TW2765 | 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)



araya⁵
TUNABLE COLOR

COLOR TUNING

| CCT Range | Ordering Code | Available CRI |
|----------------|---------------|---------------|
| 1650K to 8000K | TC1680 | 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

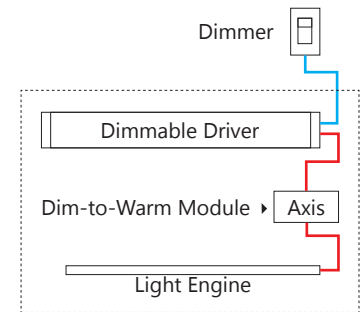
Araya 5 Tunable Color is a 4 channel system that delivers full spectrum light using five colors (royal blue, blue, lime green, amber and red). Users can tailor brightness, CCT, Saturation and Hue to their desired preferences while maintaining great color consistency (<2 Standard Deviation Color Matching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

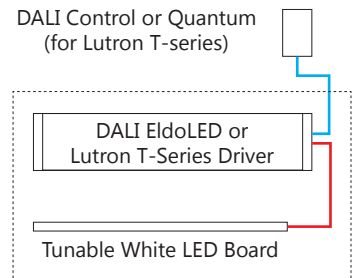
Axis Tunable White is enabled with EldoLED* DualDrive controller with Lightshape and two addresses per device. TW2750 provide color mixing closer to the Black Body locus and minimizes DUV.

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 |
|--------|----------------------------------|------------|-----|------------|-----|
| DALIT6 | DALI Type 6 (Two DALI Addresses) | ✓ | ✓ | | |
| DALIT8 | DALI Type 8 (One DALI Address) | ✓ | ✓ | | |
| LTTW** | Lutron T-Series Tunable White | ✓ | ✓ | | |

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

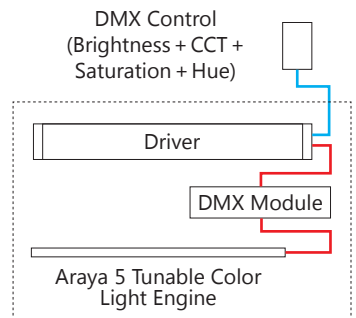
**LTTW is available with luminaires min 3' and longer. For luminaires shorter than 3' please consult factory.



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 | ✓ | ✓ | | |
| DALIT8 | DALI Type 8 (single DALI Address) | ✓ | ✓ | | |
| DLM | Wattstopper DLM | ✓ | ✓ | | |



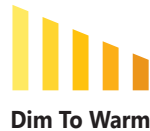
Color Tuning Control Configuration

*Axis is a ELDoLED Technology Partner. ** Axis is a Araya and Lumenetix Technology Partner.

*** DALI system must operate on Broadcast or group scene so that all luminaires change at the same time.

STEP 3

Select Your Luminaire

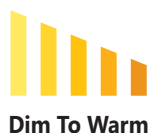


| Ordering Code | DW3020 | TW2750 | TW2765 | TC1680 |
|---------------------------|---------------|---------------|---------------|-------------------------|
| CCT Range | 3000K - 2000K | 2700K-5000K | 2700K-6500K | 1650K-8000K |
| Available CRI | 90 CRI | 80 or 90 CRI | 80 or 90 CRI | 90 CRI |
| Channel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


| PRODUCT |  | 202 Pendant, Wall | ✓ | ✓ | ✓ | N/A |
|---------|---|---|---|---|---|-----|
| |  | Arc Pendant, Wall | ✓ | ✓ | ✓ | N/A |
| |  | Air Pendant, Surface, Wall | ✓ | ✓ | ✓ | N/A |
| |  | Aura, Dia, Day, Plano, Wave Troffers | ✓ | ✓ | ✓ | N/A |
| |  | Beam 2 Square Direct Pendant, Wall, Surface | ✓ | ✓ | ✓ | N/A |
| |  | Beam 2 Square Indirect Pendant, Wall | ✓ | ✓ | ✓ | N/A |
| |  | Beam 2 Recessed | ✓ | ✓ | ✓ | N/A |
| |  | Beam 2 Direct/Indirect, Direct Pendant, Wall, Surface | ✓ | ✓ | ✓ | N/A |
| |  | Beam 2 Indirect Pendant, Wall | ✓ | ✓ | ✓ | N/A |
| |  | Beam 2 MikroLite™ 1.5 Pendant Combined , MikroLite Only | ✓ | ✓ | ✓ | N/A |
| |  | Beam 3 Direct/Indirect, Direct Pendant, Wall, Surface | ✓ | ✓ | ✓ | ✓ |
| |  | Beam 3 Indirect Pendant, Wall | ✓ | ✓ | ✓ | ✓ |
| |  | Beam 3 Recessed , Perimeter Recessed | ✓ | ✓ | ✓ | ✓ |
| |  | Beam 4 Direct/Indirect, Direct Pendant, Wall, Surface | ✓ | ✓ | ✓ | ✓ |

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, LTTW | DALIDT6, LTTW | DMX, LTA5, DALIDT8, DLM |

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

STEP 3

Select Your Luminaire

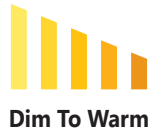


| Ordering Code | DW3020 | TW2750 | TW2765 | TC1680 |
|---------------------------|---------------|---------------|---------------|-------------------------|
| CCT Range | 3000K - 2000K | 2700K-5000K | 2700K-6500K | 1650K-8000K |
| Available CRI | 90 CRI | 80 or 90 CRI | 80 or 90 CRI | 90 CRI |
| Channel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

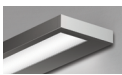
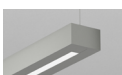





| | | | | | | |
|---------|---|--|---|---|---|-----|
| PRODUCT |  | Sculpt™ Recessed, Perimeter Recessed | ✓ | ✓ | ✓ | N/A |
| |  | Sculpt™ MikroLite™ 1.5 Pendant Combined, Direct MikroLite Only, Direct/Indirect MikroLite Only | ✓ | ✓ | ✓ | N/A |
| |  | Sculpt™ MikroLite™ 1.5 Recessed Combined, MikroLite Only | ✓ | ✓ | ✓ | N/A |
| |  | Sculpt™ MikroLite™ 1.5 Surface Combined, MikroLite Only | ✓ | ✓ | ✓ | N/A |
| |  | Sculpt™ SoftZone® Pendant Direct/Indirect, Direct, Indirect | ✓ | ✓ | ✓ | N/A |
| |  | SideStep Pendant | ✓ | ✓ | ✓ | N/A |
| |  | Sketch® Recessed | ✓ | ✓ | ✓ | N/A |
| |  | SkyeFall Recessed 2x2 | ✓ | ✓ | ✓ | N/A |
| |  | SkyePool Recessed 2x2 | ✓ | ✓ | ✓ | N/A |
| |  | SkyePlane Regressed 1x1, 1x2, 1x4, 2x2, 2x4 | ✓ | ✓ | ✓ | N/A |
| |  | SkyeScape Recessed 2x2 | ✓ | ✓ | ✓ | ✓ |
| |  | SkyeView Recessed 2x2 | ✓ | ✓ | ✓ | ✓ |
| |  | SkyeView Recessed 1x4 | ✓ | ✓ | ✓ | N/A |
| |  | Slim Pendant Direct, Semi-Direct, Indirect, Semi-Indirect | ✓ | ✓ | ✓ | 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, LTTW | DALIDT6, LTTW | DMX, LTA5, DALIDT8, DLM |

| | | | | | | |
|-----------------------|---|--|-----|---|-----|-----|
| |  | Slim Wall Indirect , Semi-Indirect | ✓ | ✓ | ✓ | N/A |
| |  | Twig Semi-Indirect Pendant , Wall | ✓ | ✓ | ✓ | N/A |
| |  | Wall Wash Perfekt Recessed , Pendant , Surface | ✓ | ✓ | N/A | N/A |
| BALANCEDCARE PRODUCTS |  | Flexible Ambient 1x1 , 1x4 , 2x2 , 2x4 | N/A | ✓ | ✓ | N/A |
| |  | Multi-Function Asymmetric Overbed Single , Duo | N/A | ✓ | ✓ | N/A |
| |  | Multi-Function Overbed 2x2 , 2x4 | N/A | ✓ | ✓ | N/A |
| |  | Sconces Box , Open Book , Closed Book | 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 |
|--|--|------------------------|--|--|
| B2SQDLED 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 | TW2750 2700-5000K TW 2765 2700-6500K DW3020 3000-2000K TC1680 1650-8000K | SO spotless lens L louver (1) 0.25G 0.25" Glo lens UB Ultra blend |
| Outputs between listed min and max are available. Consult factory for outputs outside of the listed range. * For louver only | | | Surround Lite 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 | DMLD(#) downlight modle LED | AP aluminum paint W white BLK black C custom | 120 120 V 277 277 V 347 347 V (2) UNV universal | DP dimming (0-10V) 1% LT Lutron (3) O other (4) DALITD6 DALI Type 6 (Two DALI Addresses) LTTW Lutron T-Series Tunable White DMX DMX - Standard LTA5 Lutron Araya 5 Ecosystem DALITD8 Dali Type 8 (single Dali Address) DLM Wattstopper DLM | 1 1 circuit 2 2 circuits + E(#) emergency circuit (5) + NL(#) night light circuit (5) + GTD(#) generator transfer device (5) + M 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.
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