

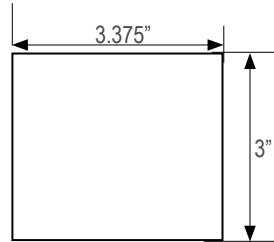


DECO® | LIGHTING

# DACH-LED Square Architectural LED Channel

## Job Information

|              |  |
|--------------|--|
| Type:        |  |
| Catalog #:   |  |
| Project:     |  |
| Comments:    |  |
| Prepared by: |  |



Square Housing

## Description

The DACH-LED square series is a functional and multi-purpose channel family that incorporates premium performance and construction durability. The performance and application versatility makes this fixture usable in every application. This fixture can be installed using various mounting methods and numerous options and accessories are available. The DACH-LED square series can be the illumination solution in commercial, industrial, institutional and retail applications. An excellent choice for storage/utility areas, coves, display cases, shops, task and general area lighting.

## Features

- Die formed channel.
- Powder coated white enamel finish after fabrication.
- Easy wireway access/wireway cover removed without tools.
- Numerous KOs for easy installation.
- Also available in tandem 8' lengths, and tandem wired 16' lengths.
- UL listed, CSA certified.
- Projected L70 lifetime is 100,000+ hours
- This driver is 0-10V dimming standard.
- OPTICS: Architectural frosted diffuse lens eliminates pixelation, improves uniformity and minimizes glare.
- CRI: 80+
- Damp Location

## Ordering Information

Example: (DACH-LED-2-25-35-UNV-EM)

### DACH-LED

| Series                           | Length | Wattage/Lumen | Color Temp. | Voltage                 | Option |                       |     |          |    |           |       |
|----------------------------------|--------|---------------|-------------|-------------------------|--------|-----------------------|-----|----------|----|-----------|-------|
| Square Architectural LED Channel | 2      | 2'            | 12          | 12W/1140 <sup>1</sup>   | 30     | 3000K                 | UNV | 120-277V | EM | Emergency |       |
|                                  |        |               | 25          | 25W/2375 <sup>1</sup>   |        | 35                    |     |          |    |           | 3500K |
|                                  |        |               | 40          | 4000K                   |        |                       |     |          |    |           |       |
|                                  | 4      | 4'            | 35          | 35W/3325 <sup>1</sup>   | 40     | 4000K                 |     |          |    |           |       |
|                                  |        |               | 45          | 45W/4275 <sup>1</sup>   |        |                       |     |          |    |           |       |
|                                  |        |               | 60          | 60W/5700 <sup>1,3</sup> |        |                       |     |          |    |           |       |
|                                  | 8      | 8'            | 60          | 60W/5700 <sup>1</sup>   | 90     | 90W/8550 <sup>1</sup> |     |          |    |           |       |
|                                  |        |               | 90          | 90W/8550 <sup>1</sup>   |        |                       |     |          |    |           |       |
|                                  |        |               | 120         | 120W/11400 <sup>1</sup> |        |                       |     |          |    |           |       |

<sup>1</sup> Delivered Lumens (4000K)

<sup>3</sup> For 5000K, multiply by 1.05, For 3500K, multiply by 0.98, For 3000K, multiply by 0.95



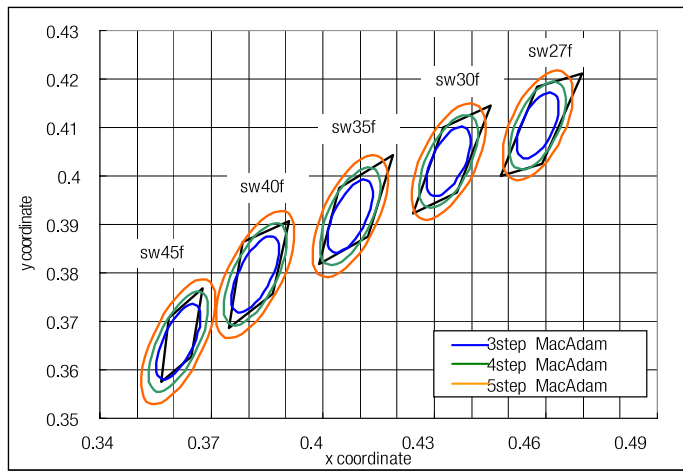
Deco Lighting practices a program of continuous product development, and as a result product specifications change frequently. We reserve the right to change product specifications without notice. Contact Deco for the latest product information.

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Rev Date: 3/21/17 #3

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## MacAdam Ellipse

A MacAdam ellipse is a region on a chromaticity diagram which contains all colors which are indistinguishable, to the average human eye, from the color at the center of the ellipse. This measure helps to establish the variability in color a light source can exhibit before a general observer will notice the shift in color. Each standard deviation out from the target center is referred to as a MacAdam step, with ANSI recommending that lamp manufacturers stay within a “4-step” ellipse. This 4-step MacAdam minimum requirement means that lamp manufacturers are given a great deal of allowance regarding the perceptible differences in color properties of their fixtures versus what they advertise.



Deco Lighting uses only the finest LEDs made by Nichia, the world's largest LED manufacturer. The Nichia LED is considered the Rolls Royce of LEDs. Featuring a 3-step MacAdam ellipse, the tightest binning in the industry, Nichia LEDs are held to a higher standard than minimum industry requirement and don't color-shift like fixtures utilizing lower quality LEDs.

| sw27f  |        |
|--------|--------|
| x      | y      |
| 0.4478 | 0.3999 |
| 0.4576 | 0.4183 |
| 0.4698 | 0.4212 |
| 0.4591 | 0.4025 |

| sw30f  |        |
|--------|--------|
| x      | y      |
| 0.4244 | 0.3923 |
| 0.4325 | 0.4101 |
| 0.4452 | 0.4146 |
| 0.4362 | 0.3965 |

| sw35f  |        |
|--------|--------|
| x      | y      |
| 0.3989 | 0.3819 |
| 0.4045 | 0.3975 |
| 0.4452 | 0.4044 |
| 0.4362 | 0.3875 |

| sw40f  |        |
|--------|--------|
| x      | y      |
| 0.3746 | 0.3687 |
| 0.3783 | 0.3836 |
| 0.3909 | 0.3906 |
| 0.3864 | 0.3757 |

| sw45f  |        |
|--------|--------|
| x      | y      |
| 0.3565 | 0.3576 |
| 0.3585 | 0.3706 |
| 0.3675 | 0.3769 |
| 0.3646 | 0.3627 |

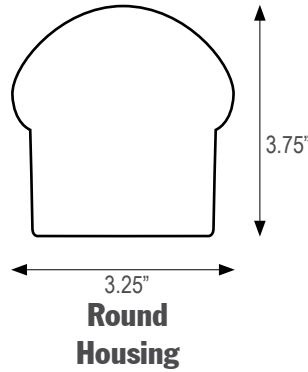


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# DACH-LED Square Architectural LED Channel

## Job Information

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| Type:        |  |
| Catalog #:   |  |
| Project:     |  |
| Comments:    |  |
| Prepared by: |  |



## Description

The DACH-LED round series is a functional and multi-purpose channel family that incorporates premium performance and construction durability. The performance and application versatility makes this fixture usable in every application. This fixture can be installed using various mounting methods and numerous options and accessories are available. The DACH-LED round series can be the illumination solution in commercial, industrial, institutional and retail applications. An excellent choice for storage/utility areas, coves, display cases, shops, task and general area lighting.

## Ordering Information

Example: (DACH-LED-4-35-40-UNV-R-DM)

DACH-LED

| Series                          | Length | Wattage/Lumen | Color Temp.             | Voltage | Housing | Option  |
|---------------------------------|--------|---------------|-------------------------|---------|---------|---|
| Round Architectural LED Channel | 2' 2'  | 25            | 25W/2300 <sup>1</sup>   | 40      | 4000K   | UNV 120-277V<br>R Round<br>EM Emergency<br>DM Dimmable<br>CSC Control Scope Connected<br>MS Motion Sensor |
|                                 |        | 50            | 50W/5415 <sup>1</sup>   | 50      | 5000K   |   |
|                                 | 4' 4'  | 25            | 25W/2560 <sup>1</sup>   |         |         |   |
|                                 |        | 35            | 35W/3710 <sup>1</sup>   |         |         |   |
|                                 |        | 50            | 50W/5415 <sup>1</sup>   |         |         |   |
|                                 | 8' 8'  | 45            | 45W/4600 <sup>1</sup>   |         |         |   |
|                                 |        | 60            | 60W/7650 <sup>1</sup>   |         |         |   |
|                                 |        | 75            | 75W/10368 <sup>1</sup>  |         |         |   |
|                                 |        | 100           | 100W/10368 <sup>1</sup> |         |         |   |

<sup>1</sup> Delivered Lumens (4000K)  
\* See total system power consumption and lumen chart on Page 2



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## Features

- Die formed channel.
- Powder coated white enamel finish after fabrication.
- Easy wireway access/wireway cover removed without tools.
- Numerous KOs for easy installation.
- Also available in tandem 8' lengths, and tandem wired 16' lengths.
- UL listed, CSA certified - Damp Location rated.
- Projected L70 lifetime is 174,000+ hours
- This driver is 0-10V dimming standard.
- OPTICS: Architectural frosted diffuse lens eliminates pixelation, improves uniformity and minimizes glare.
- CRI: 80+
- Operating Temperature: 0°-55°C Max Ambient
- DLC Listed (See page 2 for matrix on which models are listed).

## Step Dimming & Bi-Level

### FSP-211

The FSP-211 mounts in an outdoor lighting fixture and provides multi-level control based on motion. The sensor also includes a photocell to measure the ambient light level. It controls 0-10 VDC LED drivers or dimming ballasts, as well as non-dimming ballasts and, with an SFP-LX Lens, is rated for wet and cold locations. All control parameters are adjustable via a wireless configuration tool capable of storing and transmitting sensor profiles.

#### Key Factors

- Fully adjustable high and low dimmed light levels.
- Designed for LED fixtures; rated for extreme temperatures and up to 200,000 on/off cycles
- Hold off setpoint with automatic calibration option for convenience and added energy savings
- Adjustable via handheld wireless configuration tool
- IP66 rated with choice of lenses for wet and outdoor locations, and mounting heights from 8' to 40'
- Adjustable time delay and cut off delay



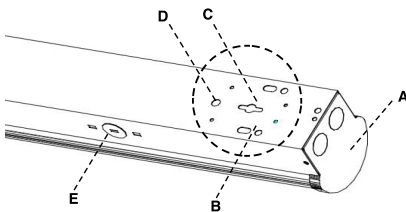
## DLC Listed

|       | 2'  |     | 4'  |     |     | 8'  |      |  |
|-------|-----|-----|-----|-----|-----|-----|------|--|
|       | 25W | 25W | 35W | 50W | 45W | 60W | 100W |  |
| 4000K | X   | X   | X   | X   | X   | X   | X    |  |
| 5000K | X   | X   | X   | X   | X   | X   | X    |  |

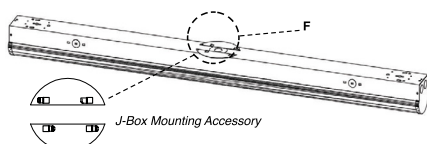
## Lumen Chart

| Model   | Lumen Chart  |       |       |
|---------|--------------|-------|-------|
|         | System Watts | 5000K | 4000K |
| 2' 25W  | 20           | 2360  | 2300  |
| 4' 25W  | 22           | 2560  | 2530  |
| 4' 35W  | 35           | 3791  | 3710  |
| 4' 50W  | 45           | 5533  | 5415  |
| 8' 45W  | 40           | 4700  | 4600  |
| 8' 60W  | 67           | 7700  | 7650  |
| 8' 100W | 95           | 10575 | 10368 |

## Mounting Details

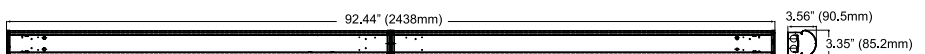


- A: End Cap
- B: Suspension-mount with v-hook
- C: Surface Mount
- D: T-Bar Clip Mounting hole
- E: Wiring Knockout

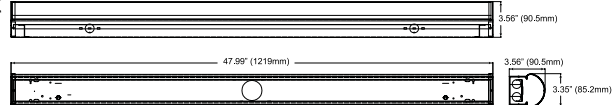


## Dimensions

### Round 8ft



### Round 4ft

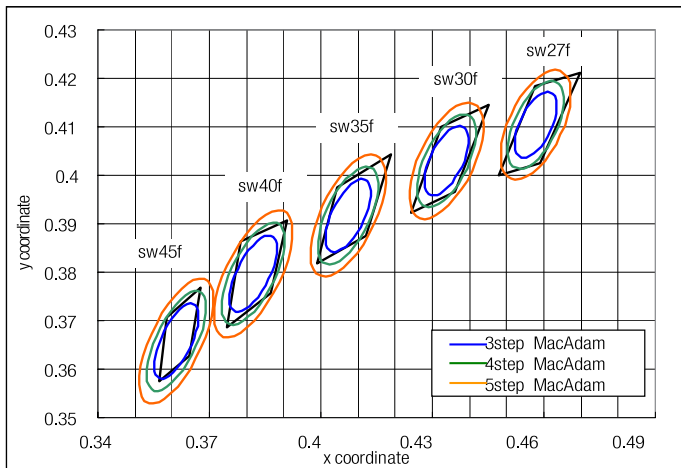


### Projected LED Maintenance

| Operating Hours          | 0                                  | 25,000 | 50,000 | 100,000 | 150,000 |
|--------------------------|------------------------------------|--------|--------|---------|---------|
| Lumen Maintenance Factor | 25°C Ambient Interior Temp (77°F)  |        |        |         |         |
|                          | 1                                  | 0.99   | 0.96   | 0.91    | 0.86    |
|                          | 45°C Ambient Interior Temp (113°F) |        |        |         |         |
|                          | 1                                  | 0.96   | 0.90   | 0.81    | 0.72    |

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