# DECO® | LIGHTING

# DACH-LED Round
## Architectural LED Channel

**10** YEAR WARRANTY — INCLUDES LABOR ALLOWANCE — INDUSTRY BEST

**Buy American Act COMPLIANT**

**DLC QPL LISTED PREMIUM**

**DEFENDER series**



3.75"

3.25"

**Round Housing**
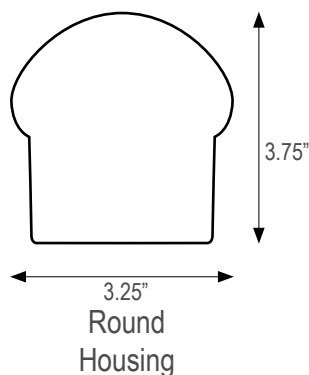
## Description

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 (see Page 2). 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-4-46-40-UNV-R-DM-EM)**

**DACH-LED** — ☐ — ☐ — ☐ — ☐ — ☐ — ☐ — ☐ — ☐

| Series | Length | | Wattage/Lumen | | Color Temp. | | Voltage | | Housing | | Dimming | | Body Type | | Option | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Round Architectural LED Channel Luminaire | **2** | 2' | **20** | 20W/2350[1,3] | **40** | 4000K | **UNV** | 120-277V | **R** | Round | **DM** | 0-10V Dimming Standard | **O** | One-Piece Lens (8-ft units only)[2] | **EM** | Emergency |
| | | | | | **50** | 5000K | | | | | | | | | **CSC** | Control Scope Connected |
| | **4** | 4' | **23** | 23W/2560[1,3] | | | | | | | | | | | **MS** | Motion Sensor[4] |
| | | | **35** | 35W/4550[1,3] | | | | | | | | | | | | |
| | | | **46** | 46W/5980[1,3] | | | | | | | | | | | | |
| | **8** | 8' | **46** | 46W/5980[1,3] | | | | | | | | | | | | |
| | | | **65** | 65W/8580[1,3] | | | | | | | | | | | | |
| | | | **90** | 90W/11700[1,3] | | | | | | | | | | | | |

[1] Delivered Lumens (4000K) - See full lumen chart on Page 4
[2] Only applies to 8-ft models. Indicates single 8-ft unit rather than two 4ft units connected together
[3] DLC Listed wattage (see chart on Page 2 for more information)
[4] See Page 4 for more information on features and benefits of the Motion Sensor
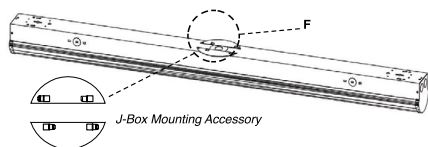
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## Features

- Die formed channel.
- Powder coated white enamel finish after fabrication.
- Easy wireway acess/wireway cover removed without tools.
- Numerous KOs for easy installation.
- Also available in tandem 8' lengths, and tandem wired 16' lengths.
- UL listed for damp location
- LED driver is 0-10V dimming standard.

- OPTICS: Architectural frosted diffuse lens eliminates pixelation, improves uniformity and minimizes glare.
- DLC Premium Listed for utility rebates (see DLC matrix below for more information)
- Operating Temperature: -20°C to +50°C Ambient
- Performs at up to 130 lumens per watt; CRI: 80+
- Lifetime Ratings - L90: 112,000 hours; L80: 224,000 hours
- EM-Emergency to provide 16W (2000 Lumens) MAX load for 90 min.
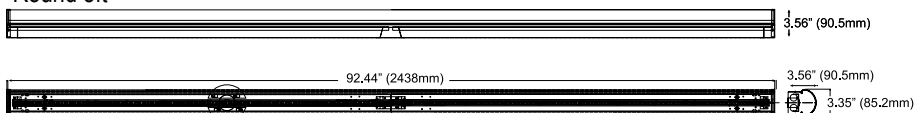
## Mounting Details
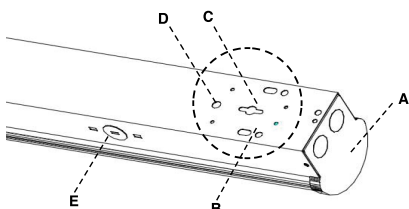


- **A:** End Cap
- **B:** Suspension-mount with v-hook drill template
- **C:** Surface Mount
- **D:** T-Bar Clip Mounting hole
- **E:** Wiring Knockout



*J-Box Mounting Accessory*

## Dimensions

Round 8ft



3.56" (90.5mm)

92.44" (2438mm) · 3.56" (90.5mm) · 3.35" (85.2mm)

Round 4ft



3.56" (90.5mm)

47.99" (1219mm) · 3.56" (90.5mm) · 3.35" (85.2mm)
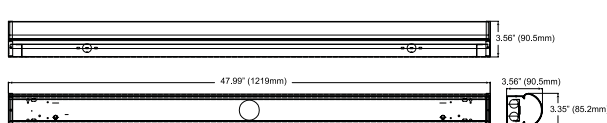
## Accessories (Ordered and Shipped Separately)

| MOUNTING | |
|---|---|
| 5011003-6 | V-hook and Aircraft Cable Suspension Kit - 6' |
| 5011003-10 | V-hook and Aircraft Cable Suspension Kit - 10' |

## DLC Listed

| | 2' | 4' | | | 8' | | |
|---|---|---|---|---|---|---|---|
| | 20W | 23W | 35W | 46W | 46W | 65W | 90W |
| 4000K | X | X | X | X | X | X | X |
| 5000K | X | X | X | X | X | X | X |

## 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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## Photometric Data

### 4' 35W 4000K Model
Polar Candela Distribution



- ■ - 0° H
- ■ - 90° H
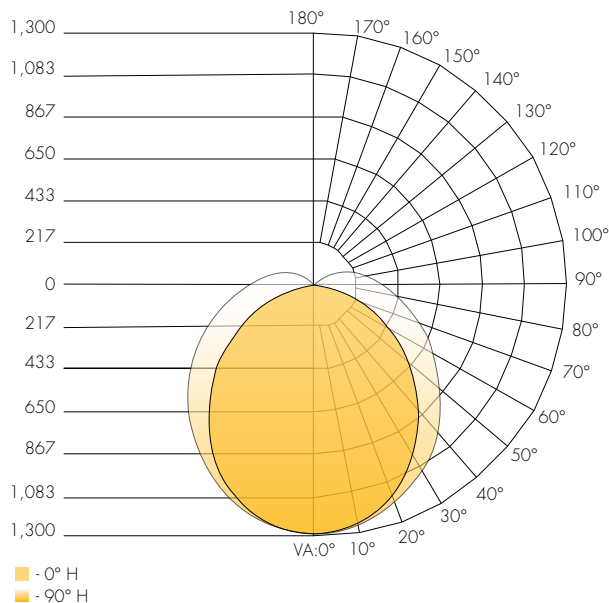
**Zonal Lumen Summary**

| Zone | Lumens | %Luminaire |
|---|---|---|
| 0-30 | 982.6 | 21.5% |
| 0-40 | 1,603.6 | 35.1% |
| 0-60 | 2,850.5 | 62.3% |
| 50-90 | 1,186.4 | 25.9% |
| 70-100 | 877.0 | 19.2% |
| 90-120 | 422.1 | 9.2% |
| 0-90 | 4,036.9 | 88.2% |
| 90-180 | 537.9 | 11.8% |
| 0-180 | 4,574.8 | 100% |

Coefficients of Utilization - Zonal Cavity Method
Effective Floor Cavity Reflectance: 20%

| RCC %: | 80 | | | | 70 | | | | 50 | | | 30 | | | 10 | | | 0 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RW %: | 70 | 50 | 30 | 0 | 70 | 50 | 30 | 0 | 50 | 30 | 20 | 50 | 30 | 20 | 50 | 30 | 20 | 0 |
| RCR: 0 | 1.16 | 1.16 | 1.16 | 1.16 | 1.12 | 1.12 | 1.12 | .88 | 1.05 | 1.05 | 1.05 | .98 | .98 | .98 | .91 | .91 | .91 | .88 |
| 1 | 1.04 | .98 | .93 | .89 | 1.00 | .95 | .90 | .70 | .88 | .85 | .81 | .82 | .79 | .77 | .77 | .75 | .72 | .69 |
| 2 | .94 | .85 | .77 | .71 | .90 | .82 | .75 | .58 | .76 | .71 | .66 | .71 | .66 | .62 | .66 | .63 | .59 | .56 |
| 3 | .85 | .74 | .65 | .58 | .82 | .71 | .63 | .48 | .67 | .60 | .54 | .62 | .57 | .52 | .58 | .54 | .50 | .47 |
| 4 | .78 | .65 | .56 | .49 | .75 | .63 | .55 | .41 | .59 | .52 | .46 | .55 | .49 | .44 | .52 | .47 | .42 | .40 |
| 5 | .71 | .58 | .49 | .42 | .68 | .56 | .48 | .36 | .53 | .45 | .40 | .50 | .43 | .38 | .47 | .41 | .37 | .34 |
| 6 | .66 | .52 | .43 | .36 | .63 | .51 | .42 | .32 | .48 | .40 | .35 | .45 | .38 | .33 | .42 | .36 | .32 | .30 |
| 7 | .61 | .47 | .38 | .32 | .59 | .46 | .37 | .28 | .43 | .36 | .30 | .41 | .34 | .29 | .38 | .33 | .28 | .26 |
| 8 | .57 | .43 | .34 | .28 | .55 | .42 | .34 | .25 | .40 | .32 | .27 | .37 | .31 | .26 | .35 | .30 | .25 | .23 |
| 9 | .53 | .39 | .31 | .26 | .51 | .38 | .31 | .23 | .36 | .29 | .24 | .34 | .28 | .24 | .33 | .27 | .23 | .21 |
| 10 | .50 | .36 | .28 | .23 | .48 | .35 | .28 | .21 | .34 | .27 | .22 | .32 | .26 | .21 | .30 | .25 | .21 | .19 |

## Lumen Chart

| Lumen Chart | | | |
|---|---|---|---|
| Model | System Wattage | 5000K | 4000K |
| 2' 20W | 19 | 2400 | 2350 |
| 4' 23W | 23 | 2989 | 2900 |
| 4' 35W | 35 | 4600 | 4550 |
| 4' 46W | 46 | 6050 | 5980 |
| 8' 46W | 46 | 6050 | 5980 |
| 8' 65W | 65 | 8645 | 8580 |
| 8' 90W | 88 | 11790 | 11700 |

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