



# DLED-AFK4

## 4" NON-IC Architectural Frame-in Kit

Client: \_\_\_\_\_  
Project Name: \_\_\_\_\_

Order #: \_\_\_\_\_  
Type: \_\_\_\_\_ Qty: \_\_\_\_\_

### Performance Data

CRI  
80+

CCT  
3000K, 3500K, 4000K

Projected Lifetime  
100,000+ Hours (L70)

Dimming  
Triac 120V Standard,  
0-10V Optional

Operating Temperature  
-30°C to +45°C Ambient

ETL Listed  
Suitable for dry and damp  
locations



### Description

4" DLED Architectural frame-in downlight kits feature modern styling paired with multiple trim styles and high efficiency LED components to deliver quality illumination. The DLED-AFK is designed for use in non-insulated ceiling applications and insulation material must be kept a minimum of 3 inches from fixture. A precision-designed optical diffuser allows for high lumen transmission while maintaining a soft, uniform spread for interior spaces.

### Features

Mounting Frame:

- 20-gauge CRS mounting ring, black-painted. 1-5/8" deep collar may use for various thickness of ceiling materials.

LED Module & Trim:

- Aluminum extruded Heat sink designed to facilitate heat dissipation to reduce LED junction temperature for maintaining constant light output, color and life of solid state components.

- Module construction includes LED, heat sink and lens.
- Heavy gauge aluminum reflector anodized in clear, haze, gold, champagne and pewter color finish.
- Reflectors may provide with black and white milled groove baffle collar.

- For more features see page 2

# DLED-AFK4

A

B

C

D

# UNV

E

F

### Ordering Information

#### A FIXTURE SERIES

DLED-AFK4 4" NON-IC Architectural Frame-in Kit

#### B WATTAGE/LUMENS

14A	14W/1100
23	23W/1740

#### C CCT

30	3000K
35	3500K
40	4000K

#### D TRIM

See Page 3

#### E VOLTAGE

UNV 120-277V<sup>1</sup>

#### F OPTIONS

DM	Dimmable <sup>2</sup>
ECQ	Easy-Quick Connector Case

<sup>1</sup> Triac 120V low voltage electronic dimmer switches

<sup>2</sup> 0-10V dimmer switches

**Features (continued)**

**Junction Box:**

- Listed for through branch circuit wiring. (Max.8 No 12 AWG 90°C branch circuit conductors. (4 in, 4 out)
- (5)1/2" knockouts with true pry-out slots and (4) knockouts with Romex cable clamp.
- Ground wire provided on J-box.

**Listing:**

- ETL Listed. CA Title 24.

**Options:**

- Emergency battery back-up: Available in mounted to fixture or remote adjacent to luminaire (consult with factory for exact application).

**Color Rendering**

- CRI rating of 80 or greater; R9 value of 10 or greater for crisp interior color accuracy.

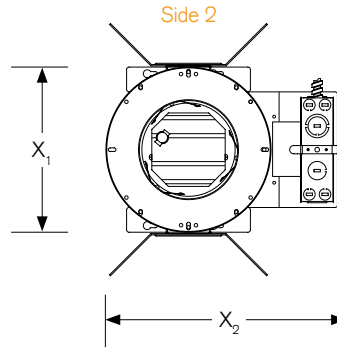
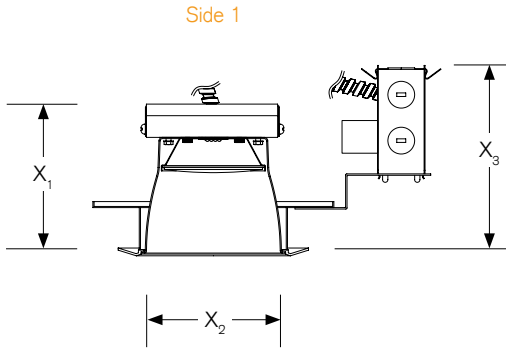
**Electrical:**

- 120-277V input high efficacy drivers with the capability to dim by 1a Triac 120V low voltage electronic dimmer switches, or 2by 0-10V dimmer switches.
- Driver feature power factor >.90, THD <20% and has integral thermal protection to sense over temperature or internal failure.
- Driver mounts externally to the module, allowing future replacement, if needed.
- Consult with factory for optional 0-10V analog dimmable driver.

**Mounting Channel Bracket:**

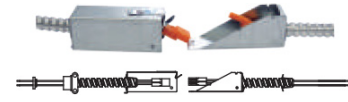
- Commercial mounting kit provided up to 5" vertical adjustment, which accommodates 1/2" EMT conduit, optional HB-24 or HBC-24 bar hanger or lathing channels for T-bar grid or concealed spline ceiling.

**Dimensions**



Ceiling Cut-Out: 5"

	Inches	
	Side 1	Side 2
X <sub>1</sub>	4.875	7.875
X <sub>2</sub>	4.375	11.375
X <sub>3</sub>	6.00	--



Optional: Easy-quick connector case (patent pending)

**Photometrics**

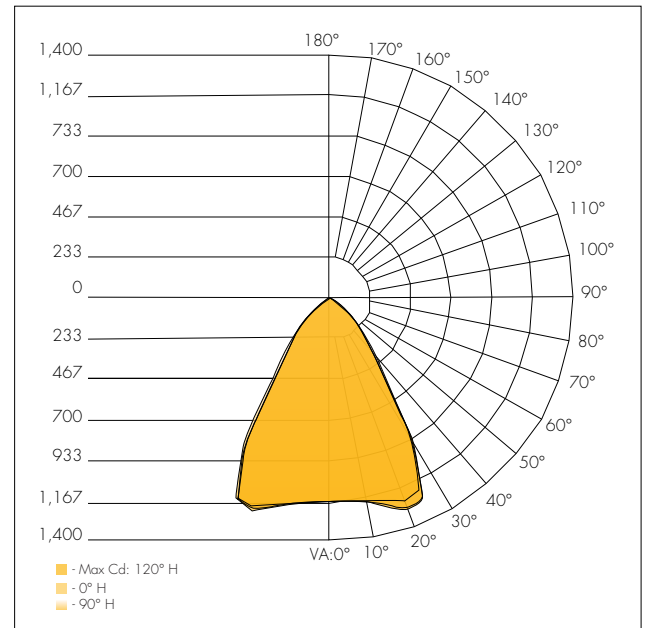
Coefficients of Utilization - Zonal Cavity Method  
Effective Floor Cavity Reflectance: 20%

RCC %:	80				70				50				30				10				0
RW %:	70	50	30	0	70	50	30	0	50	30	20	0	50	30	20	0	50	30	20	0	0
RCR: 0	1.19	1.19	1.19	1.19	1.16	1.16	1.16	1.00	1.11	1.11	1.11	1.00	1.06	1.06	1.06	1.00	1.02	1.02	1.02	1.00	1.00
1	1.13	1.10	1.07	1.04	1.10	1.08	1.05	.92	1.03	1.01	1.00	1.00	1.00	.98	.97	.96	.95	.94	.94	.92	.92
2	1.06	1.01	.96	.93	1.04	.99	.95	.85	.96	.92	.89	.89	.93	.90	.87	.90	.88	.86	.86	.84	.84
3	1.00	.93	.87	.83	.98	.91	.86	.78	.89	.84	.81	.81	.86	.83	.79	.84	.81	.78	.77	.77	.77
4	.94	.86	.79	.75	.92	.84	.79	.71	.82	.77	.73	.73	.80	.76	.72	.78	.75	.72	.72	.70	.70
5	.89	.79	.73	.68	.87	.78	.72	.65	.76	.71	.67	.67	.75	.70	.66	.73	.69	.66	.66	.64	.64
6	.83	.73	.67	.62	.82	.73	.66	.60	.71	.65	.61	.61	.70	.65	.61	.68	.64	.60	.60	.59	.59
7	.79	.68	.62	.57	.77	.68	.61	.56	.66	.61	.56	.56	.65	.60	.56	.64	.59	.56	.56	.54	.54
8	.74	.64	.57	.52	.73	.63	.57	.51	.62	.56	.52	.52	.61	.56	.52	.60	.55	.52	.52	.50	.50
9	.70	.60	.53	.49	.69	.59	.53	.48	.58	.52	.48	.48	.57	.52	.48	.56	.51	.48	.48	.46	.46
10	.67	.56	.49	.45	.65	.55	.49	.45	.54	.49	.45	.45	.54	.48	.45	.53	.48	.45	.45	.43	.43

**Zonal Lumen Summary**

Zone	Lumens	%Luminaire
0-30	1,011.7	59.9%
0-40	1,382.1	81.9%
0-60	1,660.5	98.3%
60-90	28.1	1.7%
0-90	1,688.5	100%

Model 4" 23W 4000K



**Trims**

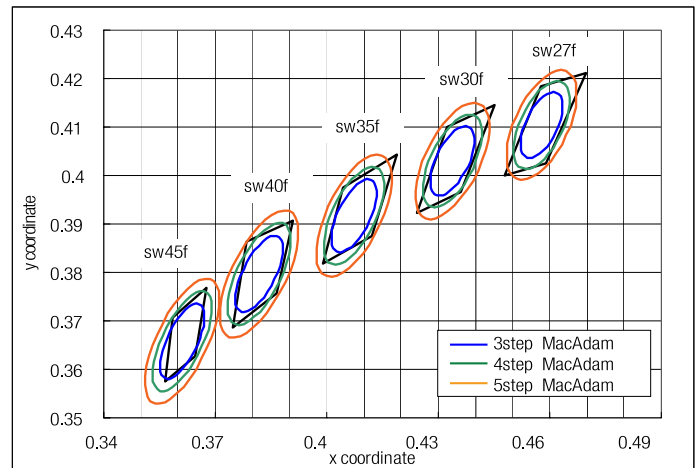


All trims are rated for damp location and regressed lens trims are wet location listed.

**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