LED-ARFK4
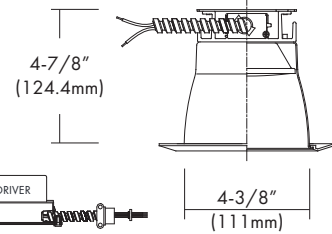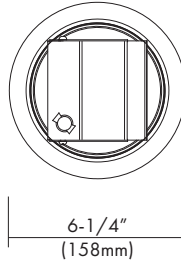
120V-277VAC LED 4", Non-IC, Architectural Retrokit
Down Light with interchangeable Reflector Trims

4" Architectural LED

Dimmable

ENERGY STAR

CA Title 24

4-7/8"
(124.4mm)

6-1/4"
(158mm)

DRIVER

4-3/8"
(111mm)

Ceiling Cut-out : 5"

DESCRIPTION

The LED-ARFK4 is an Architectural grade, LED Recessed Downlight Retrokit and is available with multiple Trim styles. It is designed for use with existing Lum-Tech 4" Architectural Incandescent, Fluorescent and Metal Halide Housings. It is also compatible with most 4" architectural housings measuring at least 4-7/8" high with an inside diameter between 4-1/2" and 5" (See Housing Compatibility section). Available with a 14W or 23W, high efficacy LED engine and universal, dimmable drivers. The optical diffuser produces high lumen transmission and even illumination. Suitable for Wet Locations.

DESIGN FEATURES

Reflector
- Heavy gauge aluminum reflectors available in various styles and finishes.

Heat Sink
- Painted, extruded aluminum heat sink designed to facilitate efficient heat dissipation for superior thermal management and reliability.

LED Driver
- Universal, 120~277V input, high efficacy drivers with dimming capability by ① a Triac 120V low voltage electronic dimmer switches or ② 0-10V, Triac & ELV dimmer switches.
- Drivers feature power factor >.90, THD <20% with integral thermal protection to sense over temperature or electrical issues.
- Driver mounts externally to the module to allow future replacement or upgrading if desired.
- Optional Lutron Hi-lume A-Series, LED drivers and EcoSystem 5-Series LED drivers are available. Lutron drivers provide flicker-free, smooth, continuous dimming down to 1% for Hi-lume and 5% for EcoSystem. (Contact factory for dimming system requirements)

Electrical Connection
- Attach driver supply line to existing junction box through one of the knockouts provided in junction box. The existing socket whip and ballast (if any) can be set aside above the ceiling or removed completely. Connect Quick Connector from LED module to driver output connector and lock the two connector housings together.

Retrokit Mounting
- Designed for use with most existing 4-1/2" - 5" aperture architectural incandescent, fluorescent and metal halide housings. Supplied with flexible metal conduit for connection to existing electrical junction boxes. Existing frame-in kit mounting via friction springs or clips.

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

Limited Warranty
- LED Module: 5 years/50K hours
- Product/Driver: 3 years

Listing
- cETLus Wet Location
- ENERGY STAR
- California Title 24

SPECIFICATION		
Input Voltage	120-277VAC	
Wattage (+/-5%)	14W	23W
Lumen (+/-5%)	950 lm	1,740 lm
Efficacy (LPW)	67.9 lm/W	75.6 lm/W
Beam Angle	67.7˚	69.3˚
CRI (Typical)	80, 90	
CCT (Color +/-5%)	2700K, 3000K, 3500K, 4000K	
Dimming	0-10V, ELV & TRIAC Optional Lutron Drivers	
LED Module	5 yr/50K hr	
Environment	Wet Location	

⊙ Triac Approved Dimmers

* Lutron: NovaT (Ntelv 300 & 600)
        Diva (Dvelv-300P & 303P)
* Leviton: Acenti : Ate06-1Lw
* Leviton Trimatron #705W (incandescent)

⊙ 0-10V Approved Dimmers

* Lutron: Nova® 0-10V : NTFTV
        Diva® 0-10V : DVTV
* Leviton: Decora 0-10V : IP710DL

Consult tech. service or factory for additional dimmers

* Provided: Easy-quick connector case (patent pending)

HOUSING COMPATIBILITY for the LED-ARFK4 RETROKIT ONLY

LED-ARFK4 ETL Listed for installation in the following Lumtech standard architectural housings;

- 4" : FH-VC4, FH-VA4, FH-VAR4, FH-HA4, FH-HC4, IH-VF4100, IH-VA4100, IH-VAR4100, MH-VF4, MH-VA4, MH-VAR4

TRIM
* Wide beam reflector is standard. Also available narrow beam in reflector(consult with factory).

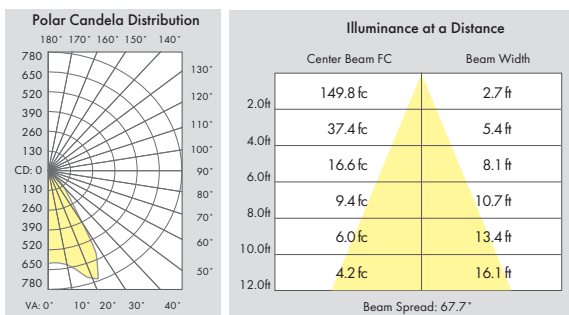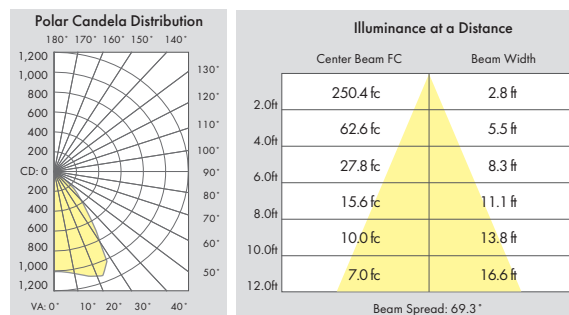| **LEDT-R44**	**LEDT-R414**	**LEDT-R441**	**LEDT-R422**	**LEDT-R436**	**LEDT-R440**
Specular Open Reflector	Baffle w / Reflector	Baffle w / Regressed Lens	Reflector w / Regressed Lens	Wall Wash w / Reflector Plate	Reflector w / Frosted Floating Lens

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

PHOTOMETRIC REPORT
* Contact Factory for IES File

Polar Candela Distribution
180° 170° 160° 150° 140°

780 650 520 390 260 130 CD: 0 130 260 390 520 650 780

VA: 0° 10° 20° 30° 40°

Illuminance at a Distance

	Center Beam FC	Beam Width
2.0ft	149.8 fc	2.7 ft
4.0ft	37.4 fc	5.4 ft
6.0ft	16.6 fc	8.1 ft
8.0ft	9.4 fc	10.7 ft
10.0ft	6.0 fc	13.4 ft
12.0ft	4.2 fc	16.1 ft

Beam Spread: 67.7°

[LED-ARFK4-14-830+LEDT-R44]

Polar Candela Distribution
180° 170° 160° 150° 140°

1,200 1,000 800 600 400 200 CD: 0 200 400 600 800 1,000 1,200

VA: 0° 10° 20° 30° 40°

Illuminance at a Distance

	Center Beam FC	Beam Width
2.0ft	250.4 fc	2.8 ft
4.0ft	62.6 fc	5.5 ft
6.0ft	27.8 fc	8.3 ft
8.0ft	15.6 fc	11.1 ft
10.0ft	10.0 fc	13.8 ft
12.0ft	7.0 fc	16.6 ft

Beam Spread: 69.3°

[LED-ARFK4-23-830+LEDT-R44]

Ordering Information

Model	-Watts	-CRI	Color Temp.**	Driver*	Trim	-Reflector Finish**	Baffle Finish for LEDT-R414 & R441	Optional Metal Trim Ring Finish
LED-ARFK4 = 4", Non-IC, Architectural Down Light Retrokit	**-14** = 14W **-23** = 23W	**-8** = 80 **-9** = 90	**27** = 2700K **30** = 3000K **35** = 3500K **40** = 4000K	**UTD** = 120~277VAC, Triac: 10-100% Dimming **UZTD** = 120~277V, 0-10V, Triac & ELV: 1-100% Dimming **L1D** = Lutron Hi-lume 1% Dimming **L5D** = Lutron EcoSystem 5% Dimming **- Option* **-EM** = Emergency battery backup	**LEDT-R44** **LEDT-R414** **LEDT-R441** **LEDT-R422** **LEDT-R436** **LEDT-R440**	**-HC** = Haze Clear **-WH** = White Painted	**-WH** = White **-BK** = Black	**-WH** = White Plastic Trim Ring (Standard) **-WMR** = White Metal Ring **-SN** = Satin Nickel **-CH** = Chrome **-SF** = Polished Self-Flange (for Open or Wall Wash Reflectors ONLY)
Example : **LED-ARFK4-14-830UTD**					**LEDT-R44-HC-WH**			*** Consult factory for other Color Temperatures and Finishes*