LEDH-AFK8
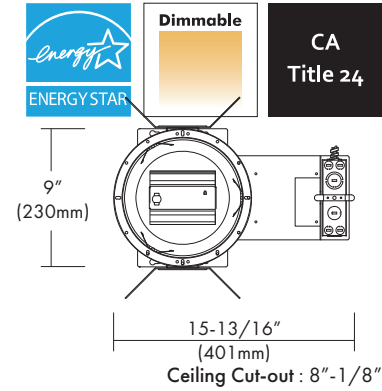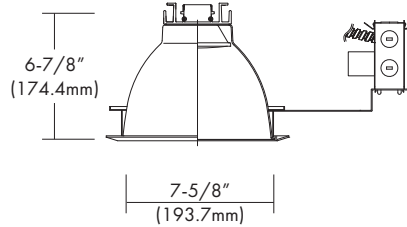
120V-277VAC LED 8", Non-IC, Architectural Frame-in Kit
Down Light with interchangeable Reflector Trims

8" LED Architectural Frame-in Kit

ENERGY STAR **Dimmable** **CA Title 24**

6-7/8" (174.4mm)

7-5/8" (193.7mm)

9" (230mm)

15-13/16" (401mm)
Ceiling Cut-out : 8"-1/8"

DESCRIPTION

The LEDH-AFK8 is a 8" LED, Non-IC, Frame-in kit and is available with multiple Trim styles. Designed for use in non-insulated ceilings, Insulation material must be kept a minimum of 3" from fixture. Available with a 14W, 23W, 30W or 45W, high efficacy LED engine and universal, dimmable drivers. The special optical diffuser produces high lumen transmission and even illumination. Suitable for Wet Locations.

DESIGN FEATURES

Mounting Ring
• 20-gauge CRS mounting ring, painted black. The 1-5/8" deep collar may be used with various ceiling material thicknesses.

LED Module & Trim
• Painted, extruded aluminum heat sink designed to facilitate efficient heat dissipation for superior thermal management and reliability.
• LED engine includes LED, heat sink and lens assembly.
• Heavy gauge aluminum reflector anodized in clear haze or white paint finishes. Multiple trim styles and finishes are available.

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)

Mounting Channel Bracket
• Commercial mounting kit provides up to 5" vertical adjustment and accommodates 1/2" EMT conduit. Optional HB-24 or HBC-24 bar hanger or lathing channels for T-bar grid or concealed spline ceiling are also available.

Junction Box
• Listed for through branch circuit wiring. (Max.8 No 12 AWG 90℃ branch circuit conductors: 4 in, 4 out)
• (5) 1/2" knockouts with pry-out slots and (4) knockouts with Romex cable clamps.
• Ground wire provided on J-box.

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	30W	45W
Lumen (+/-5%)	960	1,760	2,280	3,340
Efficacy (LPW)	68.6	76.5	76	74.2
Beam Angle	63˚	64.2˚	63.3˚	62.9˚
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)
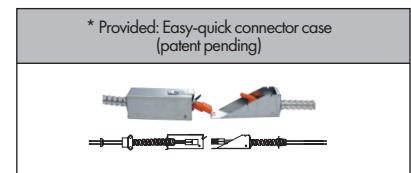
HOUSING COMPATIBILITY for the LEDH-AFK8 RETROKIT ONLY

LEDH-AFK8 ETL Listed for installation in the following Lumtech standard architectural housings;
- 8" : FH-VC8, FH-VA8, FH-VAR8, FH-HA8, FH-HAR8, FH-HC8, IH-VF8300, IH-VA8300, IH-VAR8300, IH-HF8300, IH-HA8300, IH-HAR8300, MH-VF8, MH-VA8, MH-VAR8, MH-(HF8, HA8, HAR8)

LEDH-AFK8 ETL Listed for retrokit in the following 8" architectural housing;
- **Halo** : PD7V142E, PD7V120, PD7V501E, PD7V701E, PD7V1001E, PD7V70XIE, PD7V100X1E
- **Juno** : CV8-126/32/42T, TC908, MX8-(70,100), M8-(70,100)
- **Lithonia** : LP8F, CCR82, LP8H, LP8

TRIM

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

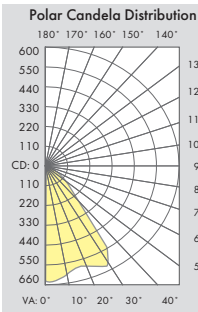| **LEDT-R84**	**LEDT-R814**	**LEDT-R841**	**LEDT-R822**	**LEDT-R836**	**LEDT-R840**
Specular Open Reflector	Baffle w / Reflector	Baffle w / Regressed Lens	Reflector w / Regressed Lens	Wall Wash w / Reflector Plate	Reflector w / Frosted Floating Lens

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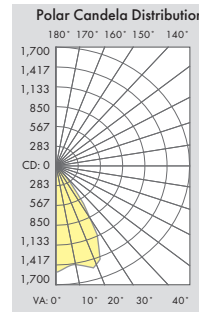
PHOTOMETRIC REPORT

* Contact Factory for IES File

Polar Candela Distribution
180° 170° 160° 150° 140°
600 550 440 330 220 110
CD: 0
110 220 330 440 550 660
VA: 0° 10° 20° 30° 40°

Illuminance at a Distance

	Center Beam FC	Beam Width
2.0ft	163.9 fc	3.1 ft
4.0ft	41.0 fc	6.3 ft
6.0ft	18.2 fc	9.4 ft
8.0ft	10.2 fc	12.5 ft
10.0ft	6.6 fc	15.7 ft
12.0ft	4.6 fc	18.8 ft

Beam Spread: 63°

[LEDH-AFK8-14-830+LEDT-R84]

Polar Candela Distribution
180° 170° 160° 150° 140°
1,700 1,417 1,133 850 567 283
CD: 0
283 567 850 1,133 1,417 1,700
VA: 0° 10° 20° 30° 40°

Illuminance at a Distance

	Center Beam FC	Beam Width
2.0ft	378.7 fc	2.5 ft
4.0ft	94.7 fc	5.0 ft
6.0ft	42.1 fc	7.5 ft
8.0ft	23.7 fc	10.0 ft
10.0ft	15.1 fc	12.5 ft
12.0ft	10.5 fc	15.0 ft

Beam Spread: 64.2°

[LEDH-AFK8-23-830+LEDT-R84]

Polar Candela Distribution
180° 170° 160° 150° 140°
2,100 1,750 1,400 1,050 700 350
CD: 0
350 700 1,050 1,400 1,750 2,100
VA: 0° 10° 20° 30° 40°
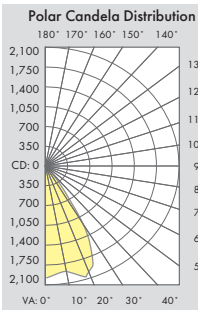
Illuminance at a Distance

	Center Beam FC	Beam Width
2.0ft	497.7 fc	2.5 ft
4.0ft	124.4 fc	4.9 ft
6.0ft	55.3 fc	7.4 ft
8.0ft	31.1 fc	9.9 ft
10.0ft	19.9 fc	12.3 ft
12.0ft	13.8 fc	14.8 ft

Beam Spread: 63.3°

[LEDH-AFK8-30-830+LEDT-R84]

Polar Candela Distribution
180° 170° 160° 150° 140°
3,200 2,667 2,133 1,600 1,067 533
CD: 0
533 1,067 1,600 2,133 2,667 3,200
VA: 0° 10° 20° 30° 40°
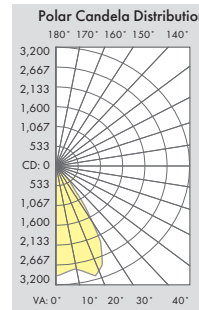
Illuminance at a Distance

	Center Beam FC	Beam Width
2.0ft	732.2 fc	2.4 ft
4.0ft	183.1 fc	4.9 ft
6.0ft	81.4 fc	7.3 ft
8.0ft	45.8 fc	9.8 ft
10.0ft	29.3 fc	12.2 ft
12.0ft	20.3 fc	14.7 ft

Beam Spread: 62.9°

[LEDH-AFK8-45-830+LEDT-R84]

Ordering Information

Model	-Watts	-CRI	Color Temp.**	Driver*	Trim	-Reflector Finish**	Baffle Finish for LEDT-R814 & R841	Optional Metal Trim Ring Finish
LEDH-AFK8 = 8", Non-IC, Architectural Frame-in Down Light Kit	**-14** = 14W **-23** = 23W **-30** = 30W **-45** = 45W	**-8** = 80 **-9** = 90	**27** = 2700K **30** = 3000K **35** = 3500K **40** = 4000K	**UTD** = 120~277VAC, Triac: 10-100% Dimming (14, 23 & 30W only) **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-R84** **LEDT-R814** **LEDT-R841** **LEDT-R822** **LEDT-R836** **LEDT-R840**	**-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 : **LEDH-AFK8-14-830UTD-EM**   **LEDT-R84-HC-WH**   ** Consult factory for other Color Temperatures and Finishes

LUM·TECH LIGHTING