LEDH-CFK9
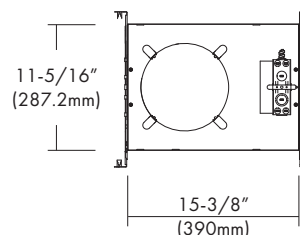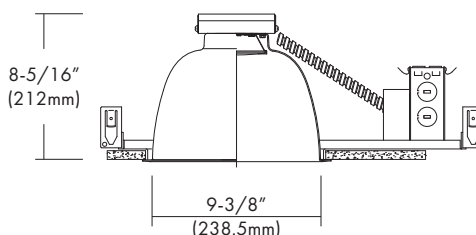
120V-277VAC LED 9", Non-IC, Commercial Flat Frame-in Kit
Down Light with interchangeable Reflector Trims

9" LED Commercial Flat Frame-in Kit

Dimmable

ENERGY STAR

CA Title 24

8-5/16" (212mm)

9-3/8" (238.5mm)

11-5/16" (287.2mm)

15-3/8" (390mm)

Ceiling Cut-out : 9"-3/4"

DESCRIPTION

The LEDH-CFK9 is a 9" LED, Non-IC Commercial Flat 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 Frame
- Galvanized steel construction.
- Housing adjusts for ceilings up to 1-1/4" thick.

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)

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.

Bar Hangers
- 24" Bar Hangers provide stability and support on joists and T-Bar Grid ceilings.
- Housing can be positioned at any point within 24" joist spacing.
- Score lines allow easy "bend & snap-off" shortening for 12" joist spacing.

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%)	935	1,700	2,195	3,370
Efficacy (LPW)	66.8	73.9	73.2	74.9
Beam Angle	63.2˚	66.5˚	66.6˚	63.3˚
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)

5/5/17

HOUSING COMPATIBILITY for the LEDH-CFK9 RETROKIT ONLY

LEDH-CFK9 ETL Listed for installation in the following Lumtech standard architectural housings;

- 9" : FH-VC9, FH-VA9, FH-VAR9, FH-HA9, FH-HAR9, FH-HC9, IH-VF9300, IH-VA9300, IH-VAR9300, IH-HF9300, IH-HA9300, IH-HAR9300, MH-VF9, MH-VA9, MH-VAR9, MH-(HF9, HA9, HAR9)

TRIM

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

LEDT-R94
Specular Open Reflector
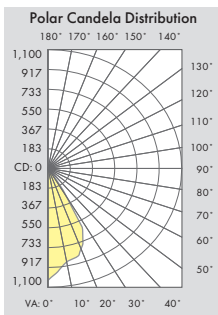
LEDT-R914
Baffle w / Reflector

LEDT-R941
Baffled Lens w / Reflector

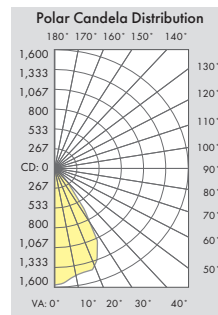*All trims are rated for damp location and regressed lens trims are wet location listed.

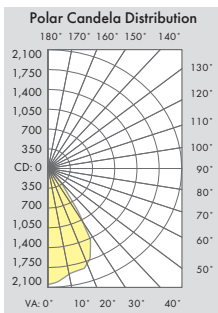## PHOTOMETRIC REPORT

* Contact Factory for IES File

Polar Candela Distribution [LEDH-CFK9-14-830+LEDT-R94]

Center Beam FC	Beam Width
2.0ft	257.3 fc	2.5 ft
4.0ft	64.3 fc	4.9 ft
6.0ft	28.6 fc	7.4 ft
8.0ft	16.1 fc	9.8 ft
10.0ft	10.3 fc	12.3 ft
12.0ft	7.1 fc	14.8 ft

Beam Spread: 63.2°

[LEDH-CFK9-14-830+LEDT-R94]

Polar Candela Distribution [LEDH-CFK9-23-830+LEDT-R94]

Center Beam FC	Beam Width
2.0ft	394.6 fc	2.6 ft
4.0ft	98.6 fc	5.2 ft
6.0ft	43.8 fc	7.9 ft
8.0ft	24.7 fc	10.5 ft
10.0ft	15.8 fc	13.1 ft
12.0ft	11.0 fc	15.7 ft

Beam Spread: 66.5°

[LEDH-CFK9-23-830+LEDT-R94]

Polar Candela Distribution [LEDH-CFK9-30-830+LEDT-R94]

Center Beam FC	Beam Width
2.0ft	511.0 fc	2.6 ft
4.0ft	127.7 fc	5.3 ft
6.0ft	56.8 fc	7.9 ft
8.0ft	31.9 fc	10.5 ft
10.0ft	20.4 fc	13.1 ft
12.0ft	14.2 fc	15.8 ft

Beam Spread: 66.6°

[LEDH-CFK9-30-830+LEDT-R94]

Polar Candela Distribution [LEDH-CFK9-45-830+LEDT-R94]
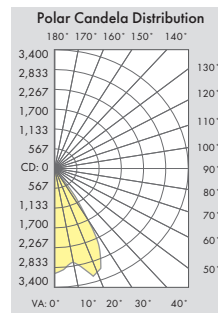
Center Beam FC	Beam Width
2.0ft	747.9 fc	2.5 ft
4.0ft	187.0 fc	4.9 ft
6.0ft	83.1 fc	7.4 ft
8.0ft	46.7 fc	9.9 ft
10.0ft	29.9 fc	12.3 ft
12.0ft	20.8 fc	14.8 ft

Beam Spread: 63.3°

[LEDH-CFK9-45-830+LEDT-R94]

Ordering Information

Model	-Watts	-CRI	Color Temp.**	Driver*	Trim	-Reflector Finish**	Baffle Finish for LEDT-R914 & R941	Optional Metal Trim Ring Finish
LEDH-CFK9 = 9", Non-IC, Commercial Flat 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-R94 LEDT-R914 LEDT-R941	**-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-CFK9-23-830UTD**					**LEDT-R94-HC-WH**		** Consult factory for other Color Temperatures and Finishes	

LUM·TECH LIGHTING