LF ILLUMINATION

TRIMMED | **Luma**DIM™ **/ Luma**TUNE™ | **LED**

PROJECT	TYPE	CATALOG NUMBER

Measurements in ( ) are metric equivalents.

8902

SQUARE FLAT TRIMMED SMALL APERTURE ACCENT - The VF150 Series is a high efficiency family of products that meet and exceed the needs of today's lighting designers and specifiers that are seeking performance. Formed of die-cast aluminum.

Ø4.50"
(114)

Ø1.80"
(46)

.75" (19)

Ball Catch Retainers
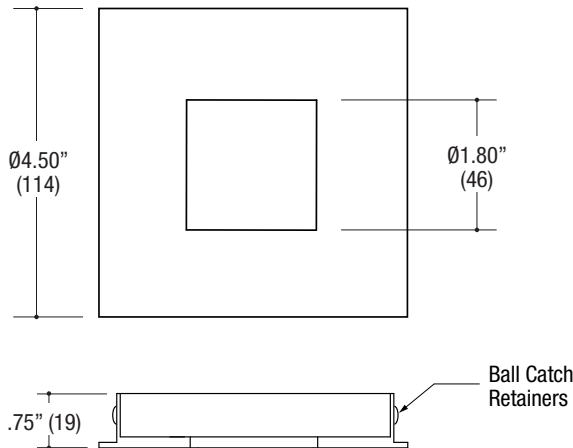
Specifications

SQUARE TRIMMED DOWNLIGHT

- Fixed or adjustable light output application
- 4.50" square flat die-cast aluminum trim
- Small 1.80" square aperture
- 1.35" face trim
- Accepts up to 2 or more optical accessories
- Ball catch retainer for easy trim insertion and removal with safety cable included
- Powder coat finish

TRIM ORDERING INFO

TRIM SERIES	TRIM FIINISH	OPTIONS	
8902 **4.50" Square Flat Accent** Die-Cast Aluminum Trimmed	**MW** White **MB** Black **XX** Custom	**CL**	Clear Lens
		DL	Diffused Lens
		DF	Diffused Film
		WF	Wide Distribution Film
		SHCL	Shower Rated Clear Lens
		SHDL	Shower Rated Diffused Lens
		SHDF	Shower Rated Diffused Film
		SHWF	Shower Rated Wide Distribution Film

Example: **8902-MB-SHCL**

5 YEAR WARRANTY Limited

CSA C US

HOUSING ORDERING INFO

SERIES	WATTAGE	CRI / COLOR	BEAM	HSG TYPE	DIMMING	VOLTAGE	OPTIONS

HVS-1BA-T
Small Square Trimmed
New Construction Housing
 	
Black finish is standard
	14R 14W LED
	20R 20W LED
		9018
		90CRI **LumaDIM**™
		3000-1800K
		
		CT16
		90CRI **LumaTUNE**™
		4000-1650K
			N*
			Narrow 20°
			M
			Medium 40°
			
			(Use lay-in film for wide distributions)
			
			*Consult factory for accessories option
				FD
				Fixed
				AD
				Adjustable
					W1 0-10V (9018)
					    0-10V, Bluetooth or DMX (CT16)
					W4 EcoSystem Compatible
					    (Remote DCA required-See
					    accessory page for options)
					W5 EcoSystem Ready
					    Integral 1 Channel DCA (9018)
					W6 EcoSystem Ready
					    Integral 2 Channel DCA (CT16)
					W7 EcoSystem Ready
					    Integral 4 Channel DCA (CT16)
						U
						120-277V
							IC
							Insulated Ceiling
							
							EM
							Remotely Mounted
							Emergency LED
							Inverter

HVS-1BA-T							

Ordering Example: **HVS-1BA-T-14R-9018-M-AD-W1-U-EM**

L F ILLUMINATION

Measurements in ( ) are metric equivalents.

LumaDIM™

VF150 and **Luma**DIM™ together provide a whole new level of choice for light output with fully adjustable color control

LEDs have proven an effective source for many lighting applications. In the case of architectural lighting, accent and display applications have been the most widely used. Until now these designs have been limited to a single color temperature. Today, with greatly improved color quality and warm CCTs at high CRI levels, LEDs are now being used in hospitality and other areas where the effect of a "warm incandescent" type of lighting is needed. **Luma**DIM™ from LF Illumination can dim our VF100 LED products from a 3000K CCT at full brightness to 1800K at 1% of full range, and maintain a 90 CRI throughout, creating a warm output never before achievable with LED sources.

Butterfly Bracket
360° Rotation
9.40" (239)
Tie down Tabs
5.40" (137)
6.40" (163)
Adjustable Plaster Frame
40° Tilt
Accommodates 1/2", 5/8", 3/4" & 7/8" Ceiling Thickness
4.00" (102)
10.88" (276)
Integral Power Supply & Wiring Compartment

(HVS-1BA-T)
SMALL SIZED HOUSING
(AD) Adjustable Downlight
(FD) Fixed Downlight (Also available)

LumaTUNE™

VF150 and **Luma**TUNE™ together provide a whole new level for white light technology, 100% - 1% tunable and dimmable

In the case of architectural lighting, the range of applications have been greater and specifications more demanding of LED technology. Typically these LED designs have been limited to a single color temperature. **Luma**TUNE™ offers a tunable range of 1650-4000K at high CRI levels. Dimming to 1% with fixed CCT or Dimming to 1% with variable CCT to replicate halogen dimming profiles. Rather it be specification grade directional downlight, retail, accent, cosmetic-counters, hospitality or museums LF Illumination's **Luma**TUNE™ offers greater versatility for the lighting designer's ever challenging demands.

Specifications

SQUARE TRIMMED HOUSING
- Housing of all steel construction
- Adjustable plaster frame
- Black powder coat finish
- **Ceiling Cut-out - 4.25" X 4.25"**

LED TECHNOLOGIES

LumaDIM™ Warm dimming LED
- 14W / 600lm, 90CRI / 3000-1800K
- 20W / 900lm, 90CRI / 3000-1800K
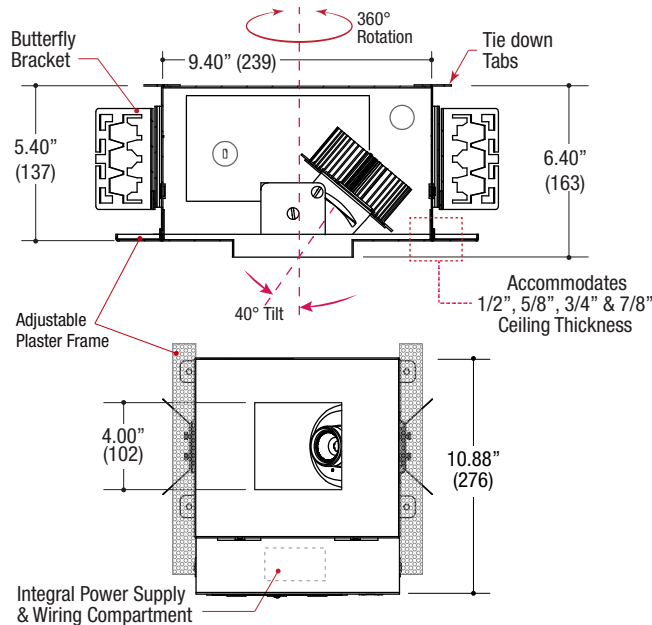*(Click for more about LumaDIM™)*

LumaTUNE™ Adjustable color tuning
- 14W / 600lm, 90CRI / 4000-1650K
- 20W / 900lm, 90CRI / 4000-1650K
(Click for more about LumaTUNE™)

ELECTRICAL
- Field-replaceable integral LED driver
- Electrical wiring compartment integrated into housing construction
- Internal thermal protection
- Easy maintenance access through ceiling opening
- Rated for through-branch wiring
- Optional dimming

MOUNTING
- Butterfly brackets for commercial installation in drywall, wood, stone, acoustic tile, or other ceiling types
- Perforated plate adjusts for 1/2", 5/8", 3/4" & 1.0" ceiling thickness
- Includes Heavy-Duty **L-Bars**™ hanger bar system for residential installation

LABELS
- Suitable for damp location, except when ordered with shower trim - Suitable for wet location
- **Air-Tight / IC Optional**

Dimming

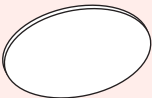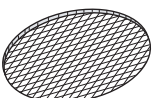| 0-10V DIMMING COMPATIBILITY TABLE			
BRAND / MODEL	**PART #**	**BRAND / MODEL**	**PART #**
Lutron DIVA	DVSTV	Vantage INFUSION	LVOS-0-10-PWM-DIN
Lutron NOVA	NTFTV	Vantage INFUSION	LVOS-1-10-PWM-P
Lutron NOVA	NTTV	Crestron iLUX	CLS-EXP-DIMFLV
Lutron HWQS	LMJ-5T-DV-B	Crestron DIN	DIN-4DIMFLV4
Lutron POWPAK	RMJ-5T-DV-B	Crestron Green Light	GLX-DIMFLV8
Lutron Grafik Eye 3000	GRX-TVI	Crestron Green Light	GLXP-DIMFLV8
Lutron Grafik Eye 4000	GRX-TVI	Crestron DIN	DIN-A08
Lutron QS ENERGI SAVR	QNS-4T16-S		
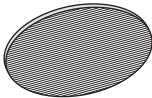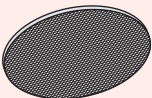
(HVS-1BA-T)
SMALL SIZED HOUSING

5 YEAR WARRANTY Limited

CSA C US

IC / Air-Tight

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rev: 081617

OPTICAL ACCESSORY	DESCRIPTION	LIGHT SOURCE
		• LED
	Clear Lens	OPTB-CLR Ø2.00" (51mm) nom.
	Clear Lens - LED Film	OPTB-L-CLR Ø2.00" (51mm) nom.
	UV Lens	OPTB-UVL Ø2.00" (51mm) nom.
	Hex Cell Louver	OPTB-HXL Ø2.00" (51mm) nom.
	Diffusion Lens	OPTB-DFL Ø2.00" (51mm) nom.
	Diffusion Lens - LED Film	OPTB-L-DFL Ø2.00" (51mm) nom.
	Linear Spread Lens	OPTB-LSL Ø2.00" (51mm) nom.
	Linear Spread Lens - LED Film	OPTB-L-LSL Ø2.00" (51mm) nom.
	Prismatic Spread Lens	OPTB-PSL Ø2.00" (51mm) nom.
	RACK-MOUNTED / Remote EcoSystem DCA 1-Channel For LumaDIM Dimming (9018)	LF-LTDCA1
	RACK-MOUNTED / Remote EcoSystem DCA 2-Channel For LumaTUNE Dimming & CCT Control (CT16)	LF-LTDCA2
	RACK-MOUNTED / Remote EcoSystem DCA 4-Channel For LumaTUNE Dimming & Full Color Control CCT, Saturation, CT & Intensity (CT16)	LF-LTDCA4

* Other filters, colored glass, dichroics & micro-lenses available upon request