

# VELO Trimless LED

Recessed Trimless Downlight - Fixed, trimless (2mm edge) fixture utilizing a single Cree LED with signature aluminum Apure© louver. High performance LED combined with precision optics for maximum performance. LED lifetime rated for 50,000 hours.

#### Construction

- CNC milled and anodized body combined with signature aluminum Apure<sup>®</sup> louver, available in various colors and combinations.
- Made in Germany, Design by Porsche Design Studio

## Housing

All recessed fixtures installed in the U.S. require a housing. Refer to the appropriate housing cutsheet to configure voltage, and other available options.

#### **Electrical**

 13W Electrical Consumption, Voltage, dimming and wiring determined by housing, please refer to required housing specification sheet for further information

#### **Required Housing / Accessory**

- HSG913-SH-XX Shallow housing
- AP7-BRD-XX Velo Plaster Installation Board

### **Required Reflector**

- AA017 17° metalized molded plastic LED reflector
- AA024 24° metalized molded plastic LED reflector
- AA036 36° metalized molded plastic LED reflector

### **Optional Accessories**

- AA0RK Ring clip (Required for all diffusors/lenses)
- · AA0HC Honeycomb clip on diffusor
- AA0GL Glass lens
- · AA0DF Diffusing film (Glass Lens Required)

### Listings

- ETL listed, damp location.
- Airtight and CCSA Chicago Plenum



SERIES NO.	ORIENTATION	BODY FINISH	LOUVER FINISH	CCT/CRI
AP71	- F -	·	/	
AP71 - 13W LED trimless downlight	F - Fixed	NA - white powder coat BA - black powder coat CC - custom color*  *Consult factory for options / details	· ·	2790 - 2700K (90+CRI) 3090 - 3000K (90+CRI) 4090 - 4000K (90+CRI) xxxx - Custom *Consult factory for options / details (100MOQ required!)
ORDERING EXAMP	IF AD71F-WH/	WH-3000		

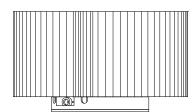


Project: Type: USA/C
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# LED Engine / Accessories

# **Clarus LED Engines**

COB Manufactuer Color Temperature (CCT)	CREE	CREE	CREE
	2700K	3000K	4000K
Delivered Performance	13 watts	13 watts	13 watts
Colored Rendering Index (CRI)	>90 CRI	>90 CRI	>90 CRI
Lumens per Watt (Im/W)	99	99	114
Source Lumens Package	1245	1245	1433
MacAdam Ellipse (Binning)	Step 2	Step 2	Step 2
LED Lifespan (Hours)	50,000+	50,000+	50,000+
Housing Type	Shallow	Shallow	Shallow
Driver Dimming	Integral, ELV	Integral, ELV	Integral, ELV
Dimming Range	Dims to 0%	Dims to 0%	Dims to 0%



<sup>\* 0-10</sup>V driver available upon request

Clarus LED Accessories (required)	Description	Order Number	
Clip On Reflector Types	17° Spot 24° Narrow Flood 36° Flood	AA017 AA024 AA036	
Clarus LED Accessories (optional)	Description	Order Number	
Clip On Lens Types	Honeycomb Lens	AA0HC	000000000000000000000000000000000000000
	Diffusing Lens (AA0GL Required) Clear Glass	AA0DF AA0GL	
	Ring Clip (Ring clip required for all lenses)	AA0RK	

SERIES NO.	TYPE	OPTIONS	REQUIRED
AA	0	_	
AA - Apure Accessory	0 - Reflector	<b>17</b> - 17° reflector <b>24</b> - 24° reflector <b>36</b> - 36° reflector	
ORDERING EXAMPLE	AA017		

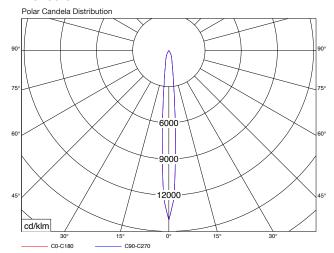
SERIES NO.	TYPE	OPTIONS	OPTIONAL
AA	0	_	
AA - Apure Accessory	0 - Reflector	HC - Honeycomb Lens DF - Diffusing Lens GL - Clear Glass RK - Ring Clip	
OBDEDING EXAMPLE	<b>AAOHC + AAOE</b>	K	

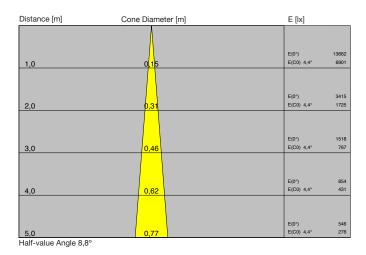
<sup>\*</sup> Custom CCT available upon request, MOQ 100pcs



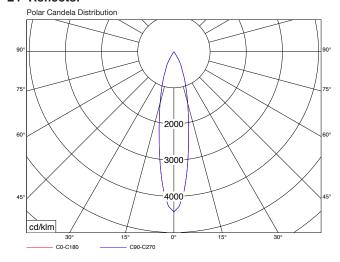
# **LED Photometrics**

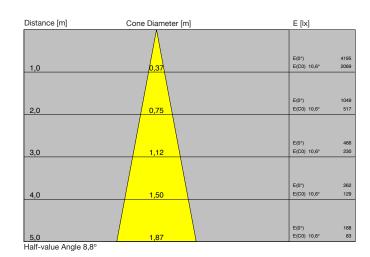
## 17° Reflector



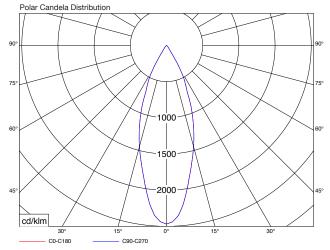


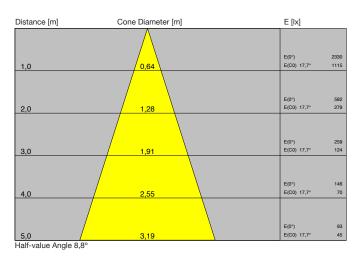
# 24° Reflector



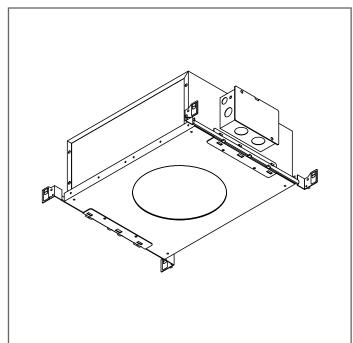


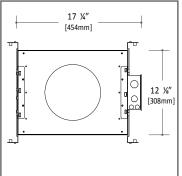
# 36° Reflector

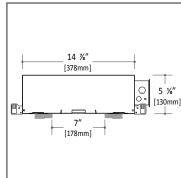


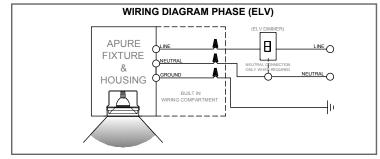












# VELO HOUSING LED

**Recessed Housing** - For use with Velo and Velo Radius fixtures. For use with Velo and Velo Radius fixtures. Housings are required per UL and NEC standard in the United States and Canada. Housings are produced airtight as standard.

## Construction

- New construction steel housing with corrosion-resistant galvanized finish.
- Housing available with Insulation Contact (IC) rating for installation in a fully insulated ceiling.
- Wiring compartment rated for (6x) #12 thru branch circuits in Non-IC housing only.
- Integrated LED Driver.

### Mounting

- Housing and trim assembly accommodate 1/2" to 1-1/2" ceiling thicknesses
- Adjustable hanger bars included, with captive nail, adjust from 14 3/16" to 26" wide.

### Electrical

- 120V-277V Universal Voltage
- · Compatible with 2-wire ELV (reverse phase) dimmers.
- For optimal performance, operate luminaire in conjunction with dimming switches or modules. Proper wiring and use of dimmers is to be performed by a qualified professional.

#### **Dimensions**

Length: 17 1/4" (454mm)
Width: 12 1/8" (308mm)
Height: 5 1/8" (130mm)



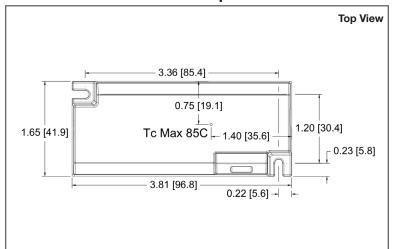
# Listings

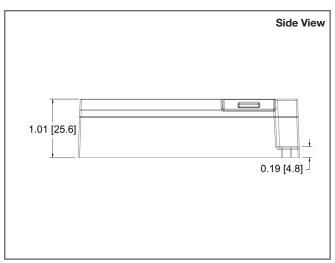
- · ETL listed, damp location.
- · Airtight and CCSA Chicago Plenum

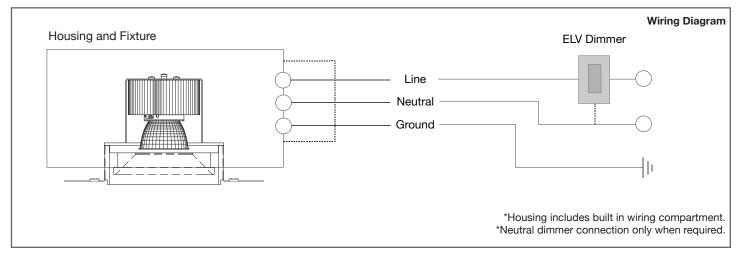
SERIES NO.	VOLTAGE	HOUSING TYPE	RATING	REQUIRED	
HSG71	3 -	- ST	- IC		
<b>HSG71</b> - Housing for Clarus LED	<b>3</b> - UNV (120-277V)	ST - Standard Housing	IC - Insulation Contact		
ORDERING EXAMPLE HSG713-ST-IC					



# **Driver Technical Specifications**





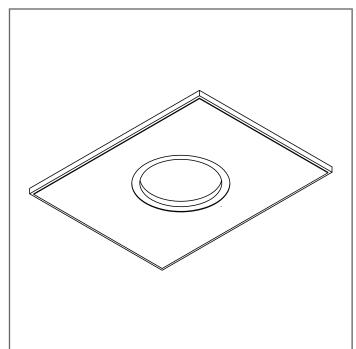


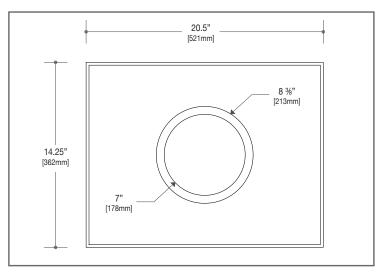
Driver Manufacturer Input Voltage (VAC) Frequency Range	Hatch 120-277V (+/-10%) 50-60 Hz	
Input Current (A) THD @ Full Load Power Factor @ Full Load Efficiency @ Full Load Inrush Current (Apk)	120V 0.16 <10% >0.95 >80% 0.58	277V 0.17 <10% >0.95 >80% 1.18
Maximum Output Power (W) LED Power Up Time Load Regulation Line Regulation (Max Load) Over Voltage Protection Over Load Protection Output Short-Circuit Protection Over Temperature Protection	16W <500ms <3% <3% Yes, Auto Recovery Yes, Auto Recovery Yes	16W <500ms <3% <3% Yes, Auto Recovery Yes, Auto Recovery Yes
Dimming Control	Leading & Trailing Edge	@120V

Dims to 0%

Dimming Range









# **VELO INSTALLATION BOARD**

**Installation Board** - The Velo installation board is a required accessory for fixture installations in drywall settings and is suitable for use the required Velo housing.

#### Construction

- Made from gypsum and recycled paper fibres, mixed and pressed under high pressure to a thickness of 5/8" (16mm). The boards are then dried and coated with a water repellent and cut to a size of 20.5" (521mm) x 14.25" (362mm).
- Inner rings allow for slight fixture adjustment after board is installed.

#### Mounting

 Please refer to installation instructions for Velo installation board mounting.

# Listings

· ETL listed, damp location



SERIES NO.	TYPE	HOUSING TYPE	REQUIRED
AP7	- BRD		
AP7 - Housing for Clarus LED	BRD - Installation Board	<b>U15</b> - 15mm (5/8")	
ORDERING EXAMP	LE AP7-BRD-U15		