

CLARUS LED

Recessed Trimmed Downlight - Fixed high power LED fixture with 1/2" (13mm) trim and signature aluminum Apure© louver. High performance Cree LEDs combined with precision optics for maximum performance. LED lifetime rated for over 50,000 hours.

Construction

- Formed steel trim with powder coat paint finish combined with signature aluminum Apure® louver, available in various colors and combinations
- · Made in Germany, Design by Porsche Design Studio
- · Torsion springs pull fixture tight to the ceiling.

Housing

 All recessed fixtures installed in the U.S. require a housing. Refer to page 4 for the corresponding housing cut sheet to configure voltage, and other available options.

Electrical

13W Electrical Consumption, 120-277V input, please refer to required housing specification sheet on page 4 for further details and options.

Required Housing

HSG913-SH-XX - Shallow housing

Required Accessories

- 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



ORDERING INFORMATION

SERIES NO.	ORIENTATION	TRIM FINISH	LOUVER FINISH	CCT/CRI	OPTIONS
AP91	F -	·	/		
AP91 - 13W LED downlight with trim	F - Fixed	WH - white powder coat BL - black powder coat CC - custom color* *Consult factory for options / details	WH - white powder coat NA - natural anodized BA - black anodized TI - titan anodized GO - gold anodized BR - bronze anodized GM - gun metal anodized RG - rose gold anodized	2790 - 2700K (90+CRI) 3090 - 3000K (90+CRI) 4090 - 4000K (90+CRI) xxxx - Custom *Consult factory for options / details (100MOQ required!)	[blank] - damp location WL - wet location lens
ORDERING EXAMP	LE AP91F-WH/	WH-3090-WL			

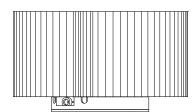


Project:	Туре:	USA/CAN
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LED Engine / Accessories

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%



^{* 0-10}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	(XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
	Diffusing Lens (AAOGL Required) Clear Glass	AA0DF AA0GL	
	Ring Clip (Ring clip required for all lenses)	AA0RK	

ORDERING INFORMATION

SERIES NO.	TYPE	OPTIONS	REQUIRED
AA	0	_	
AA - Apure Accessory	0 - Reflector	17 - 17° reflector 24 - 24° reflector 36 - 36° reflector	
ORDERING EXAMPLE	AA017		
ONDERING EXAMPLE	AAVII		

SERIES NO.	TYPE	OPTIONS	OPTIONAL
AA	0	_	
AA - Apure Accessory	0 - Reflector	HC - Honeycomb Lens DF - Diffusing Lens GL - Clear Glass RK - Ring Clip	

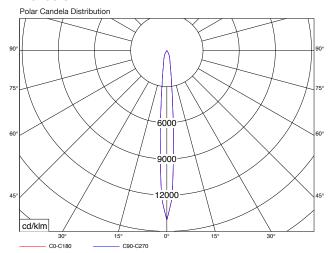
ORDERING EXAMPLE AA0HC + AA0RK

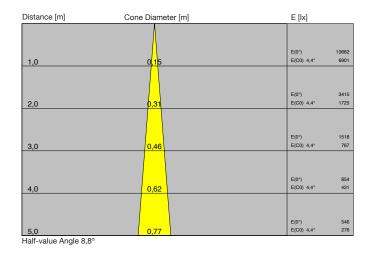
^{*} Custom CCT available upon request, MOQ 100pcs



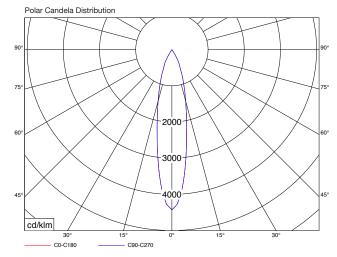
LED Photometrics

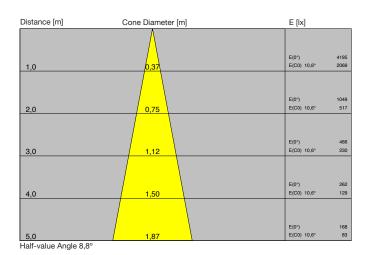
17° Reflector



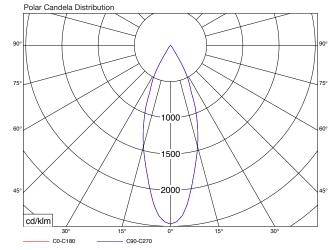


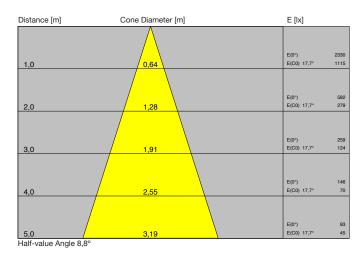
24° Reflector



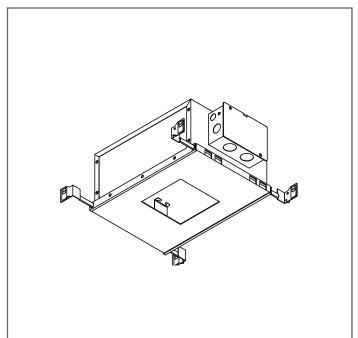


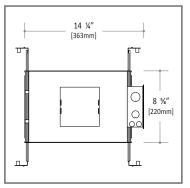
36° Reflector

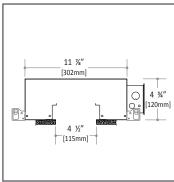












Please see page 5 for wiring diagram

CLARUS HOUSING LED

Recessed Housing - For use with Clarus and Clarus 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 and without Insulation Contact (IC) rating for installation in a fully insulated ceiling.
- Wiring compartment rated for (6x) #12 thru branch circuits in Non-IC applications only.

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 Input
- 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: 14 1/3" (363mm)
Width: 8 5/8" (220mm)
Height: 4 3/4" (120mm)

Listings

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

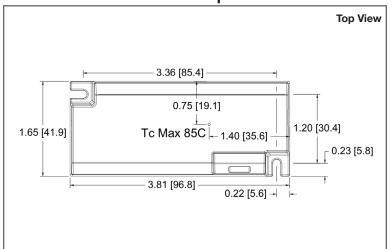


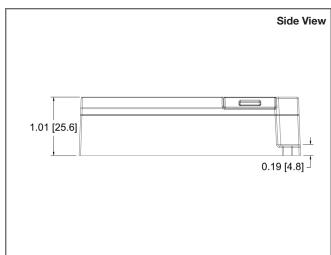
ORDERING INFORMATION

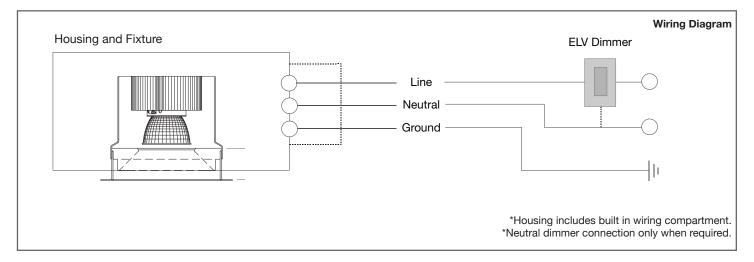
SERIES NO.	VOLTAGE	HOUSING TYPE	RATING	REQUIRED
HSG91	3 -	· SH	- IC	
HSG91 - Housing for Clarus LED	3 - UNV (120-277V)	SH - Shallow Housing	IC - Insulation Contact	
ORDERING EXAMPLE HSG913-SH-IC				



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