

# SHINE-D SERIES FEATURES & BENEFITS

## 01.HOUSING

- Die cast aluminum housing.
- Traditional box styling, simple style.
- Modular design allows for easy installation, replacement and maintenance.

## 02.FINISH

- Corrosion resistant polyester powder painted 100µm thickness.
- Meets a 1000-hour salt spray certification per ASTM B117/ ISO 9227:2012.
- Standard color of White.

## 03.LED & OPTICAL ASSEMBLY

- Each PCB are mounted with a TVS (Transient Voltage Suppressors) to protect the LEDs from voltage transients induced by lightning and other transient voltage events.
- High-uniformity LED optics are constructed of durable optical polycarbonate that is impact and UV resistant.
- The metal plate provides double protection for the LED light engine and prolongs LED optics life.
- Over 15 optical lenses are available for virtually any application.
- Each LED module are 100% tested prior to assembly which is IP67 rated.

## 04.MOUNTING

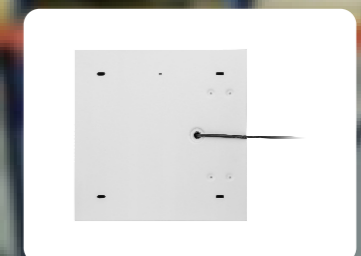
- Surface mount.
- Used for the traditional place like parking lot and so on.

## 05.Electrical/ Key Components/ Controls

- 120-277VAC and 347-480VAC available.
- Surge protection to 20kV/10kA per ANSI/IEEE C62.41.2-2002 available.
- High quality LEDs, driver and components, e.g. MOLEX, WAGO connectors.
- Multiple lighting control options are available, e.g. DALI, 1-10V.

## 06.Product Certifications

- UL/ CUL/ DLC/ LM79/ CB/ CE/ SAA/ RoHS  
(Not all products are qualified on the DLC QPL. To view our DLC qualified products, please consult the DLC Qualified Products List at [www.designlights.org](http://www.designlights.org))

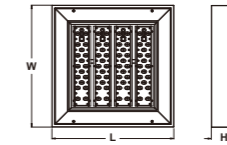
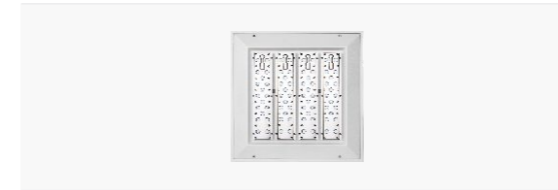


# TECHNICAL PARAMETERS

# PRODUCT MODEL

Power	120/160W	IP Rating	IP20
Input	120-277VAC or 220-240VAC or 347-480 VAC	SPD	Optional
PF	>0.95	Certificate/Qualification	UL/ CUL/ DLC/ LM79/ CB/ CE/ SAA/ RoHS
THD	<20%	DALI	Optional
L70/L90	>200,000H/>60,000H	1-10V	Optional
Operating Temperature	-40°C ~ +40°C	Photocell	/
Typical Efficacy	120-160lm/W	Smart Control	/
ANSI CCT	3000K/4000K/5000K/5700K	Optic (IESNA)	Type I, Type II, Type III, Type IV, Type V
Min CRI	70* or 80 or 90	Color Options	White

\* Standard



Model	CLA120-D/CLB160-D/ CLA120H-D/CLB160H-D	Net Weight	8.47kg(18.67lbs)	Model No.	System Power	Voltage	Drive Current	Luminous Flux		Efficacy (lm/W)
LED Modules	4	Gross Weight	9.60kg(21.16lbs)	CLA120-D	110W	120-277VAC	530mA	3000K	4000/5000K	135
LEDs	72	Product Dimensions	423x423x89mm 16.65"x16.65"x3.50"	CLB160-D	156W	120-277VAC	700mA	13365lm	14850lm	130
Mounting options	Surface mount	Carton Dimensions	525x498x180mm 20.67"x19.61"x7.09"	CLA120H-D	110W	347-480VAC	530mA	13365lm	14850lm	135
				CLB160H-D	156W	347-480VAC	700mA	18252lm	20280lm	130

# ORDERING INFORMATION

MODEL (Nominal Power)		MOUNTING	OPTIC LENS	CCT (ANSI)	OPTIONAL COLOR	LIGHTING CONTROL	ACCESSORY INFO
CLA120 120W	CLA120H* 120W	D	<b>T1M</b> Type I Medium	<b>30K</b> 3045	★ <b>WH</b> White (RAL:9010)	<b>00</b> Not required	10KA/20KA Surge Protection Device
CLB160 160W	CLB160H* 160W		<b>T2M</b> Type II Medium	±175K		<b>04</b> DALI	Back Light Shield
			<b>T3M</b> Type III Medium	★ <b>40K</b> 3985		<b>05</b> 1-10V dimming	
			<b>T3L</b> Type III Long	±275K			
			<b>T4S</b> Type IV Short	★ <b>50K</b> 5028			
			<b>T4M</b> Type IV Medium	±283K			
			<b>T5U</b> Average beam angle 10°	<b>57K</b> 5665			
			<b>T5V</b> Average beam angle 25°	±355K			
			<b>T5W</b> Average beam angle 40°				
			<b>T5S</b> Average beam angle 60°				
			<b>T5M</b> Average beam angle 90°				
			<b>T5L</b> Average beam angle 120°				
			<b>T5X</b> Average beam angle 150°				
			<b>T5D</b> Diffuser				

\* DALI unavailable

★ Regularly stocked item

● Example 1: CLA120-D-T5S-50K-WH-00

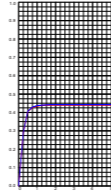
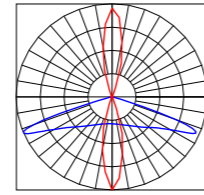
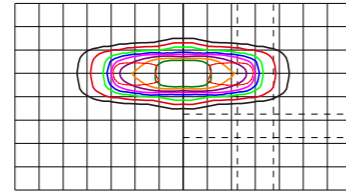
● Example 2: CLB160H-D-T5U-50K-WH-05

# ACCESSORIES OPTICS

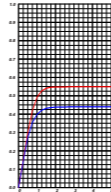
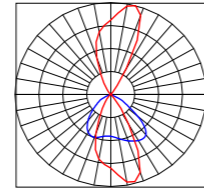
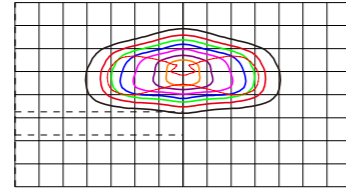
ISO Plot

Polar Curve

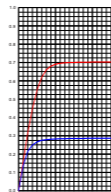
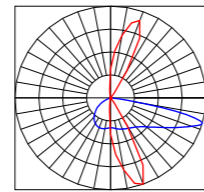
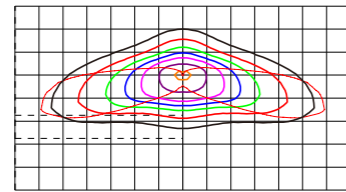
Cu Graph



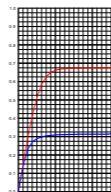
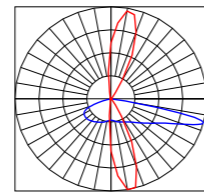
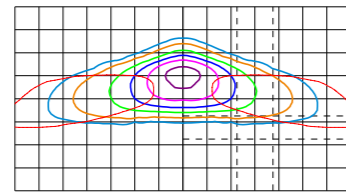
**T1M** Type I Medium



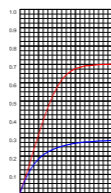
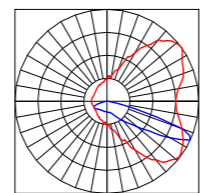
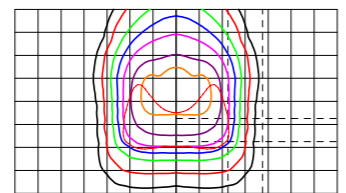
**T2M** Type II Medium



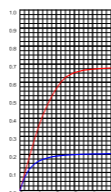
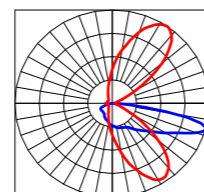
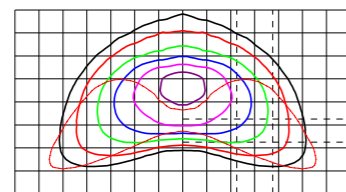
**T3M** Type III Medium



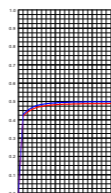
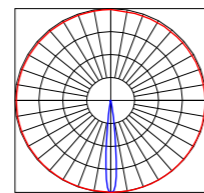
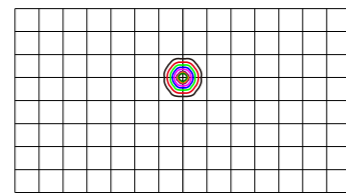
**T3L** Type III Long



**T4S** Type IV Short



**T4M** Type IV Medium

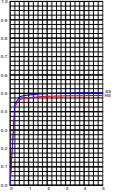
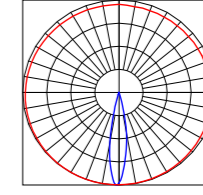
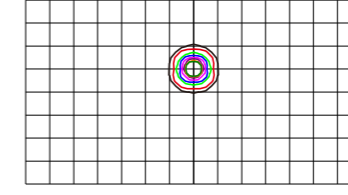


**T5U** Average beam angle 10°

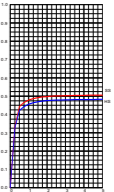
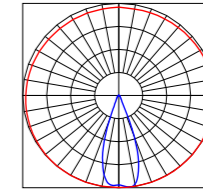
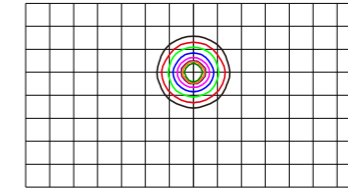
ISO Plot

Polar Curve

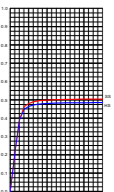
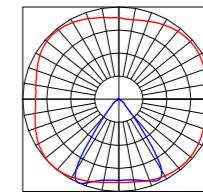
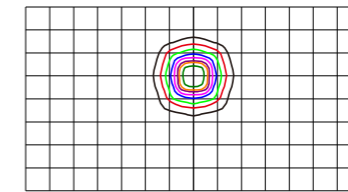
Cu Graph



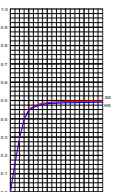
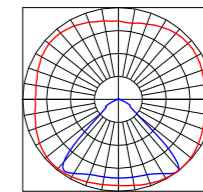
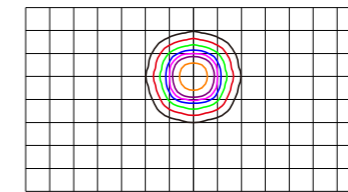
**T5V** Average beam angle 25°



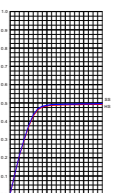
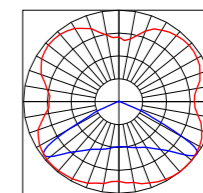
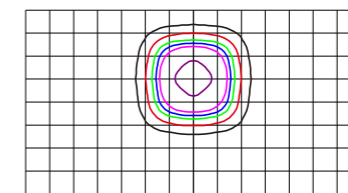
**T5W** Average beam angle 40°



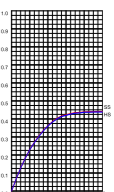
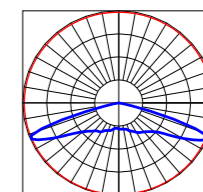
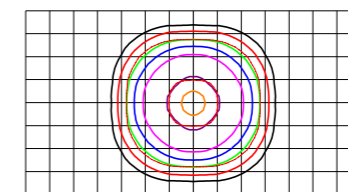
**T5S** Average beam angle 60°



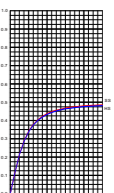
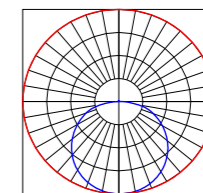
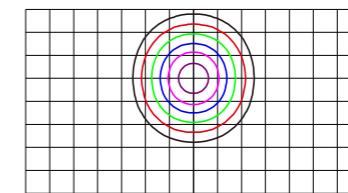
**T5M** Average beam angle 90°



**T5L** Average beam angle 120°



**T5X** Average beam angle 150°



**T5D** Diffuser