

# ARRLUX



## UNITED STATES

Arrlux Inc. (Sales&Support Center of California)  
Add: 1039 Serpentine Ln, ste F Pleasanton, CA 94566  
E-mail: usa@arrlux.com

## CANADA

Arrled Inc. (Sales&Support Center of Quebec)  
Add: 1249 rue Carswell Quebec, G1W 3R4, Canada  
E-mail: canada@arrlux.com

## HONG KONG

Trantek Industrial (HK) Co.,Ltd (Marketing Center)  
Add: Flat/Rm C 16/F, Skyline Tower No.18 Tong Mi Road KL, Hong Kong  
E-mail: hongkong@arrlux.com

## CHINA

Arrlux Optoelectronic Co., Ltd  
Add: No.288, JinShi Road 7, XiaoJinKou, Huizhou, Guangdong, China  
E-mail: info@arrlux.com

**FLOOD LIGHT/AREA LIGHT**  
**AURORA-U/AURORA-L SERIES** **2018 V1**

# AURORA-U SERIES FEATURES & BENEFITS

## 01. HOUSING

- Die cast aluminum housing.
- Modular design allows for easy installation, replacement and maintenance.
- Slim & low profile design that minimizes wind load.
- IK08 rated.

## 02. FINISH

- Corrosion resistant polyester powder painted 100µm thickness.
- Meets a 1000-hour salt spray certification per ASTM B117/ ISO 9227:2012.
- Standard colors: Grey, Black, Bronze and White.
- Customized colors are available.

## 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 20 optical lenses are available for virtually any application.
- Each LED module are 100% tested prior to assembly which is IP67 rated.

## 04. MOUNTING

- The trunnion mount bracket allows for great mounting flexibility.

## 05. Electrical/ Key Components/ Controls

- 450/600/750/900W
- 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.

## 06. Product Certifications

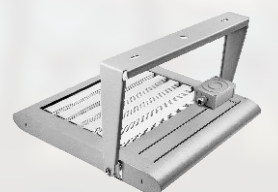
- UL/ CUL/ DLC/ LM79/ SAA/ CB/ CE/ RoHS/ IK08  
(Not all products are qualified on the DLC QPL. To view our DLC qualified products, please consult the DLC Qualified Products List at [www.designlights.org](http://www.designlights.org))



UP customed option is optional:  
Customized offset bracket mount



UM customed option is optional:  
The power is installed in the middle



# TECHNICAL PARAMETERS

# PRODUCT MODEL

<b>Power</b>	450-900W	<b>IP Rating</b>	IP67
<b>Input</b>	120-277VAC or 220-240VAC or 347-480 VAC	<b>SPD</b>	Optional
<b>PF</b>	>0.95	<b>Certificate/Qualification</b>	UL/ CUL/ DLC/ LM79/ SAA/ CB/ CE/ RoHS/ IK08
<b>THD</b>	<20%	<b>DALI</b>	Optional
<b>L70/L90</b>	>200,000H/>60,000H	<b>1-10V</b>	Optional
<b>Operating Temperature</b>	-40°C ~ +50°C	<b>Photocell</b>	Optional
<b>Typical Efficacy</b>	120-160lm/W	<b>Smart Control</b>	Optional
<b>ANSI CCT</b>	3000K/4000K/5000K/5700K	<b>Optic (IESNA)</b>	Type II, Type III, Type IV, Type V
<b>Min CRI</b>	70* or 80 or 90	<b>Color Options</b>	Grey/Black/Bronze/White

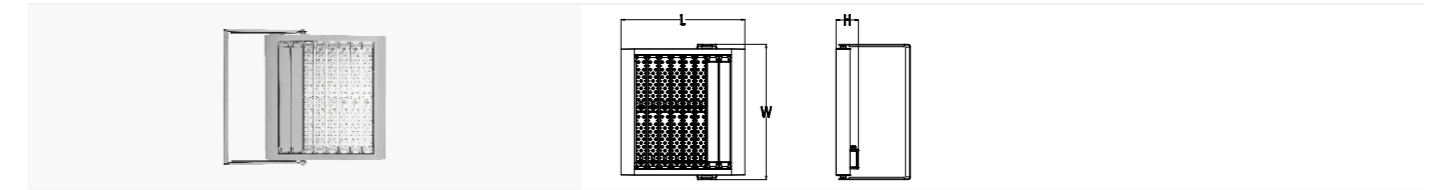
\* Standard

# ORDERING INFORMATION

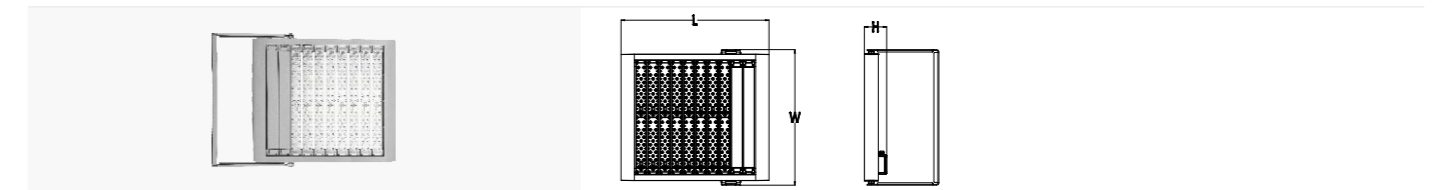
MODEL (Nominal Power)	MOUNTING	OPTIC LENS	CCT (ANSI)	OPTIONAL COLOR	LIGHTING CONTROL	ACCESSORY INFO
<b>FLD450</b> 450W	<b>U</b>	<b>T2M</b> Type II Medium	<b>30K</b> 3045	<b>★ BK</b> Black (RAL:9011)	<b>00</b> Not required	Bird Spike
<b>FLD600</b> 600W	<b>※ UM</b>	<b>T3M</b> Type III Medium	±175K	<b>GR</b> Grey (RAL:7004)	<b>01</b> Photocell	10KA/20KA Surge Protection Device
<b>FLD750</b> 750W		<b>T3L</b> Type III Long	<b>★ 40K</b> 3985	<b>BZ</b> Bronze (RAL:8019)	<b>02</b> Motion Sensor	Back Light Shield
<b>FLD900</b> 900W		<b>T4S</b> Type IV Short	±275K	<b>WH</b> White (RAL:9010)	<b>03</b> Photocell + Motion Sensor	Safety Cable
		<b>T4M</b> Type IV Medium	<b>★ 50K</b> 5028		<b>04</b> DALI	
		<b>T5U</b> Average beam angle 10°	±283K		<b>05</b> 1-10V dimming	
		<b>T5V</b> Average beam angle 25°	5665			
		<b>T5W</b> Average beam angle 40°	±355K			
		<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 & Motion sensor unavailable
- ★ Regularly stocked item
- ※ Customization is available

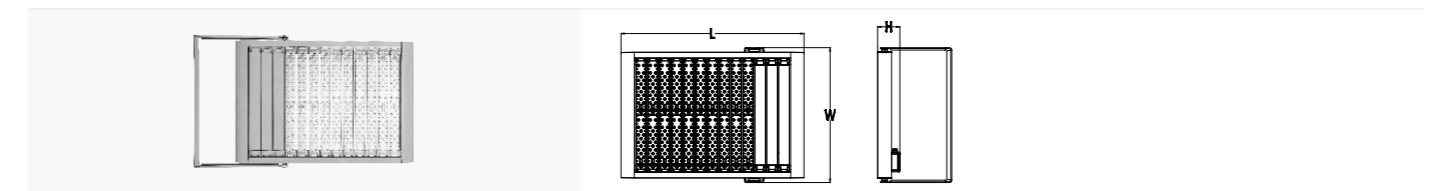
- Example 1: FLD900-U-T5S-50K-GR-00
- Example 2: FLG750-U-T5U-50K-BK-05



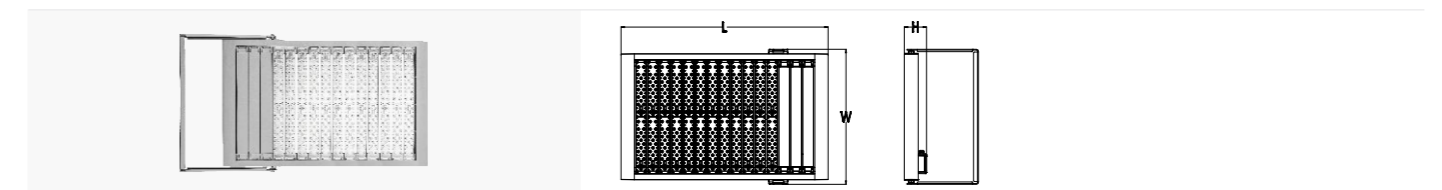
Model	FLD450-U/FLG450-U	Net Weight	19.96kg(44.00lbs)	Model No.	System Power	Voltage	Drive Current	Luminous Flux		Efficacy (lm/W)
LED Modules	6	Gross Weight	22.20kg(48.94lbs)	FLD450-U	463W	120-277VAC	700mA	3000K	4000/5000K	135
LEDs	216	Product Dimensions	24.49"x26.77"x4.41"	FLG450-U	463W	347-480VAC	700mA	56255lm	62505lm	135
EPA(sq.ft.)	0.721	Carton Dimensions	29.53"x28.74"x6.69"							



Model	FLD600-U/FLG600-U	Net Weight	23.06kg(50.84lbs)	Model No.	System Power	Voltage	Drive Current	Luminous Flux		Efficacy (lm/W)
LED Modules	8	Gross Weight	24.93kg(54.96lbs)	FLD600-U	615W	120-277VAC	700mA	3000K	4000/5000K	135
LEDs	288	Product Dimensions	29.21"x26.77"x4.41"	FLG600-U	615W	347-480VAC	700mA	74723lm	83025lm	135
EPA(sq.ft.)	0.787	Carton Dimensions	34.25"x28.74"x6.69"							



Model	FLD750-U/FLG750-U	Net Weight	27.5kg(60.63lbs)	Model No.	System Power	Voltage	Drive Current	Luminous Flux		Efficacy (lm/W)
LED Modules	10	Gross Weight	29.9kg(65.92lbs)	FLD750-U	770W	120-277VAC	700mA	3000K	4000/5000K	135
LEDs	360	Product Dimensions	36.30"x26.77"x4.41"	FLG750-U	770W	347-480VAC	700mA	93555lm	103950lm	135
EPA(sq.ft.)	0.894	Carton Dimensions	41.34"x28.74"x6.69"							

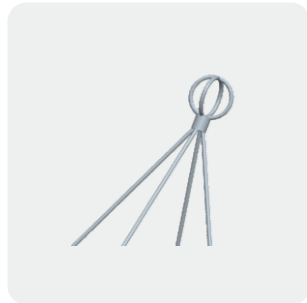


Model	FLD900-U/FLG900-U	Net Weight	30.98kg(68.30lbs)	Model No.	System Power	Voltage	Drive Current	Luminous Flux		Efficacy (lm/W)
LED Modules	12	Gross Weight	34.80kg(76.72lbs)	FLD900-U	924W	120-277VAC	700mA	3000K	4000/5000K	135
LEDs	432	Product Dimensions	41.02"x26.77"x4.41"	FLG900-U	924W	347-480VAC	700mA	112266lm	124740lm	135
EPA(sq.ft.)	0.971	Carton Dimensions	46.06"x28.74"x6.69"							

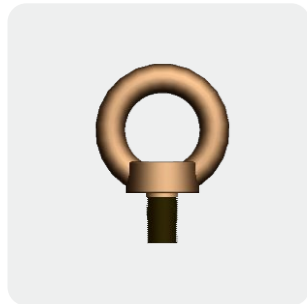
# CUSTOMIZED SOLUTIONS



01.Motion Sensor



02.Steel suspension cable



03.Suspension Rings



04.Separate Driver Module



05.Garden Light



06.Bird Spike

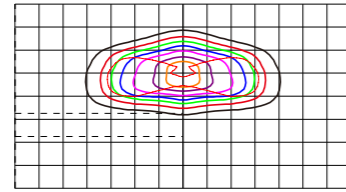


# ACCESSORIES OPTICS

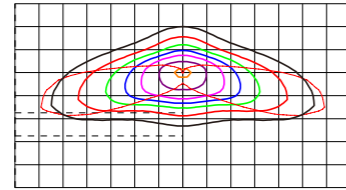
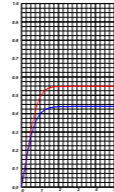
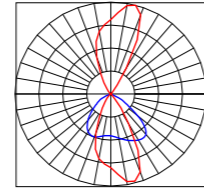
ISO Plot

Polar Curve

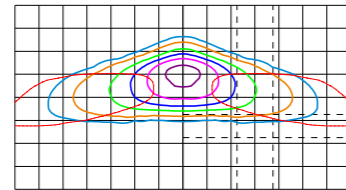
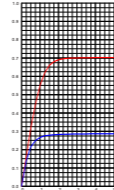
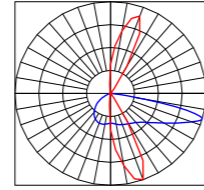
Cu Graph



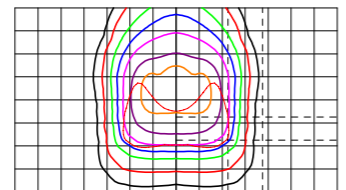
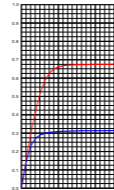
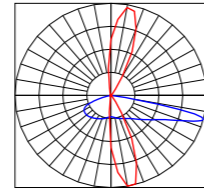
**T2M** Type II Medium



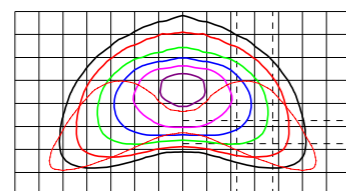
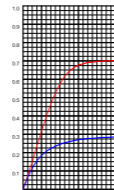
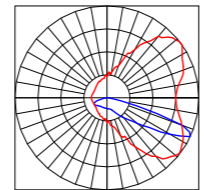
**T3M** Type III Medium



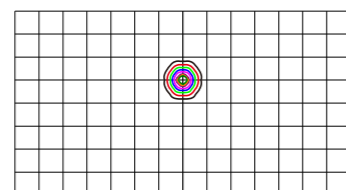
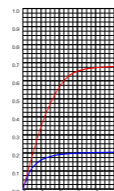
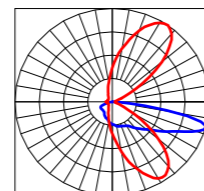
**T3L** Type III Long



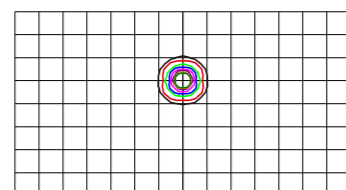
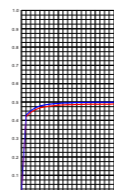
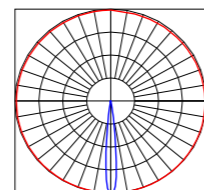
**T4S** Type IV Short



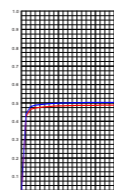
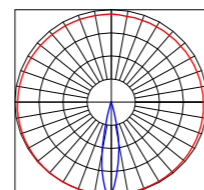
**T4M** Type IV Medium



**T5U** Average beam angle 10°



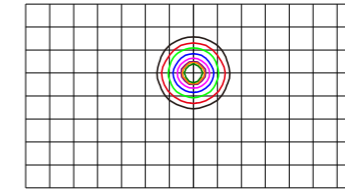
**T5V** Average beam angle 25°



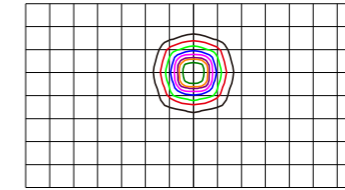
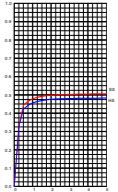
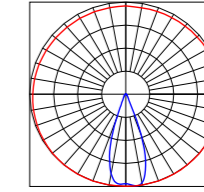
ISO Plot

Polar Curve

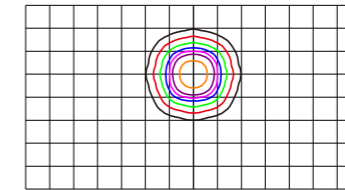
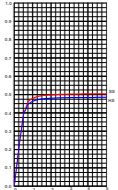
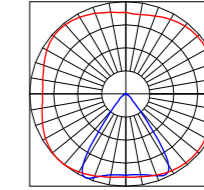
Cu Graph



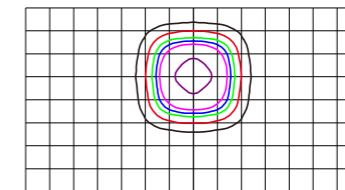
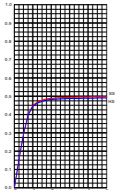
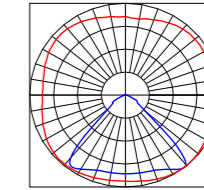
**T5W** Average beam angle 40°



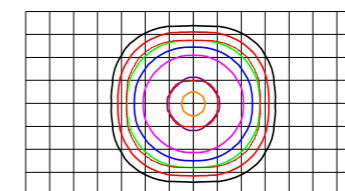
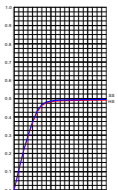
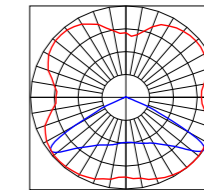
**T5S** Average beam angle 60°



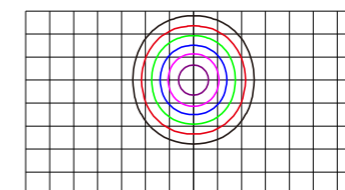
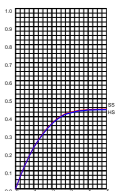
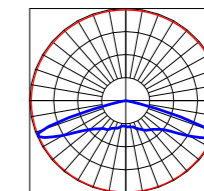
**T5M** Average beam angle 90°



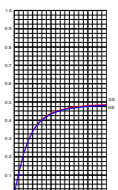
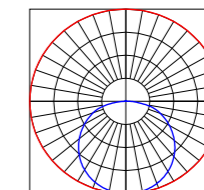
**T5L** Average beam angle 120°



**T5X** Average beam angle 150°



**T5D** Diffuser



# AURORA-L SERIES FEATURES & BENEFITS

## 01. HOUSING

- Die cast aluminum housing.
- Modular design allows for easy installation, replacement and maintenance.
- Slim & low profile design that minimizes wind load.
- IK08 rated.

## 02. FINISH

- Corrosion resistant polyester powder painted 100µm thickness.
- Meets a 1000-hour salt spray certification per ASTM B117/ ISO 9227:2012.
- Standard colors: Grey, Black, Bronze and White.
- Customized colors are available.

## 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 20 optical lenses are available for virtually any application.
- Each LED module are 100% tested prior to assembly which is IP67 rated.

## 04. MOUNTING

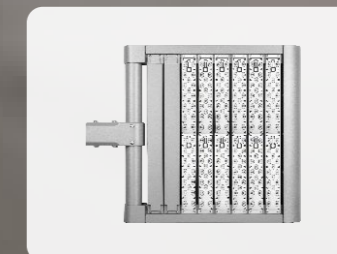
- Adjustable arm that mounts to a horizontal or vertical 2 3/8" (60mm) O.D. tenon. Tenon length must be a minimum of 4.72" (120mm).
- -60~+30 degree or -90~+0 degree of adjustment for leveling when horizontally mounted.

## 05. Electrical/ Key Components/ Controls

- 450/600/750/900W
- 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.

## 06. Product Certifications

- UL/ CUL/ DLC/ LM79/ SAA/ CB/ CE/ IK08/ 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

<b>Power</b>	450-900W	<b>IP Rating</b>	IP65
<b>Input</b>	120-277VAC or 220-240VAC or 347-480 VAC	<b>SPD</b>	Optional
<b>PF</b>	>0.95	<b>Certificate/Qualification</b>	UL/ CUL/ DLC/ LM79/ SAA/ CB/ CE/ IK08/ RoHS
<b>THD</b>	<20%	<b>DALI</b>	Optional
<b>L70/L90</b>	>200,000H/>60,000H	<b>1-10V</b>	Optional
<b>Operating Temperature</b>	-40°C ~ +50°C	<b>Photocell</b>	Optional
<b>Typical Efficacy</b>	120-160lm/W	<b>Smart Control</b>	Optional
<b>ANSI CCT</b>	3000K/4000K/5000K/5700K	<b>Optic (IESNA)</b>	Type II, Type III, Type IV, Type V
<b>Min CRI</b>	70* or 80 or 90	<b>Color Options</b>	Grey/Black/Bronze/White

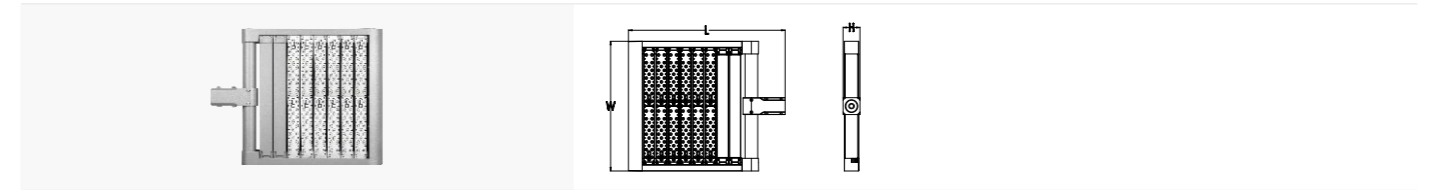
\* Standard

# ORDERING INFORMATION

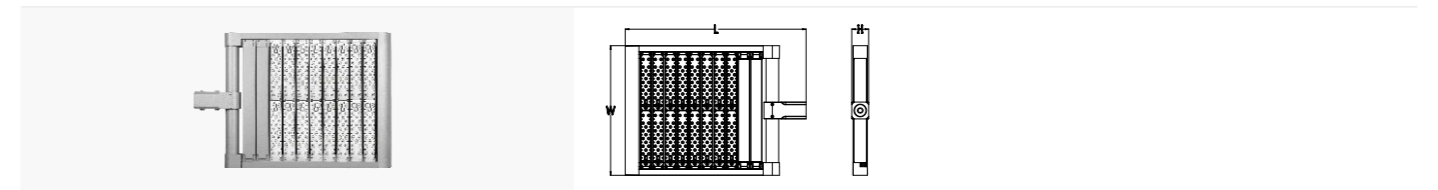
MODEL (Nominal Power)		MOUNTING	OPTIC LENS	CCT (ANSI)	OPTIONAL COLOR	LIGHTING CONTROL	ACCESSORY INFO
<b>FLE450</b> 450W	<b>FLF450*</b> 450W	<b>L</b>	<b>T2M</b> Type II Medium	<b>30K</b> 3045	★ <b>BK</b> Black (RAL:9011)	<b>00</b> Not required	Bird Spike
<b>FLE600</b> 600W	<b>FLF600*</b> 600W		<b>T3M</b> Type III Medium	±175K		<b>01</b> Photocell	10KA/20KA Surge Protection Device
<b>FLE750</b> 750W	<b>FLF750*</b> 750W		<b>T3L</b> Type III Long	★ <b>40K</b> 3985	<b>02</b> Motion Sensor	Back Light Shield	
<b>FLE900</b> 900W	<b>FLF900*</b> 900W		<b>T4S</b> Type IV Short	±275K	<b>03</b> Photocell + Motion Sensor	Safety Cable	
			<b>T4M</b> Type IV Medium	★ <b>50K</b> 5028	<b>04</b> DALI		
			<b>T5U</b> Average beam angle 10°	±283K	<b>05</b> 1-10V dimming		
			<b>T5V</b> Average beam angle 25°	5665			
			<b>T5W</b> Average beam angle 40°	±355K			
			<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 & Motion sensor unavailable  
★ Regularly stocked item

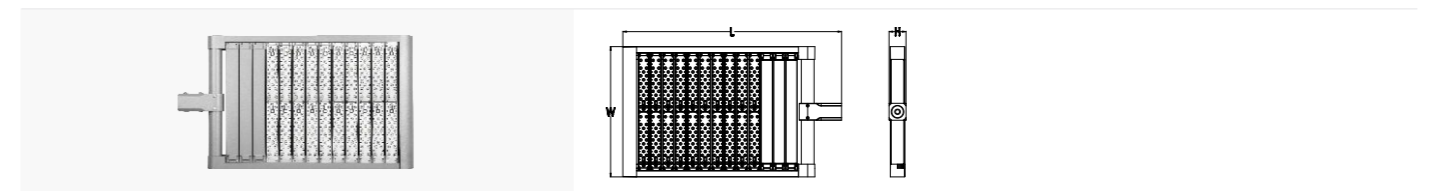
- Example 1: FLE900-L-T5S-50K-GR-00
- Example 2: FLF750-L-T5U-50K-BK-05



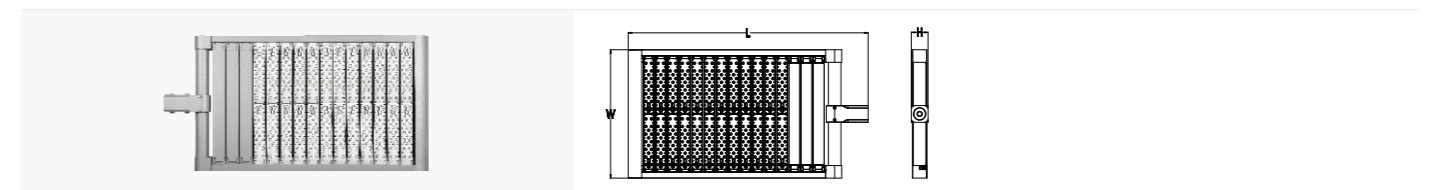
Model	FLE450-L/FLF450-L	Net Weight	18.39kg(40.54lbs)	Model No.	System Power	Voltage	Drive Current	Luminous Flux		Efficacy (lm/W)
LED Modules	6	Gross Weight	21.28kg(46.91lbs)	FLE450-L	461W	120-277VAC	700mA	3000K	4000/5000K	135
LEDs	216	Product Dimensions	30.16"x24.98"x2.76"	FLF450-L	461W	347-480VAC	700mA	56012lm	62235lm	135
EPA(sq.ft.)	0.67	Carton Dimensions	32.80"x28.74"x6.69"							



Model	FLE600-L/FLF600-L	Net Weight	22.00kg(48.50lbs)	Model No.	System Power	Voltage	Drive Current	Luminous Flux		Efficacy (lm/W)
LED Modules	8	Gross Weight	26.43kg(58.27lbs)	FLE600-L	614W	120-277VAC	700mA	3000K	4000/5000K	135
LEDs	288	Product Dimensions	34.84"x24.98"x2.76"	FLF600-L	614W	347-480VAC	700mA	74601lm	82890lm	135
EPA(sq.ft.)	0.735	Carton Dimensions	37.52"x28.74"x6.69"							



Model	FLE750-L/FLF750-L	Net Weight	27.36kg(60.32lbs)	Model No.	System Power	Voltage	Drive Current	Luminous Flux		Efficacy (lm/W)
LED Modules	10	Gross Weight	30.00kg(66.14lbs)	FLE750-L	769W	120-277VAC	700mA	3000K	4000/5000K	135
LEDs	360	Product Dimensions	41.93"x24.98"x2.76"	FLF750-L	769W	347-480VAC	700mA	93434lm	103815lm	135
EPA(sq.ft.)	0.843	Carton Dimensions	44.61"x28.74"x6.69"							



Model	FLE900-L/FLF900-L	Net Weight	29.90kg(65.92lbs)	Model No.	System Power	Voltage	Drive Current	Luminous Flux		Efficacy (lm/W)
LED Modules	12	Gross Weight	33.63kg(74.14lbs)	FLE900-L	924W	120-277VAC	700mA	3000K	4000/5000K	135
LEDs	432	Product Dimensions	46.65"x24.98"x2.76"	FLF900-L	924W	347-480VAC	700mA	112266lm	124740lm	135
EPA(sq.ft.)	0.919	Carton Dimensions	49.33"x28.74"x6.69"							

# CUSTOMIZED SOLUTIONS



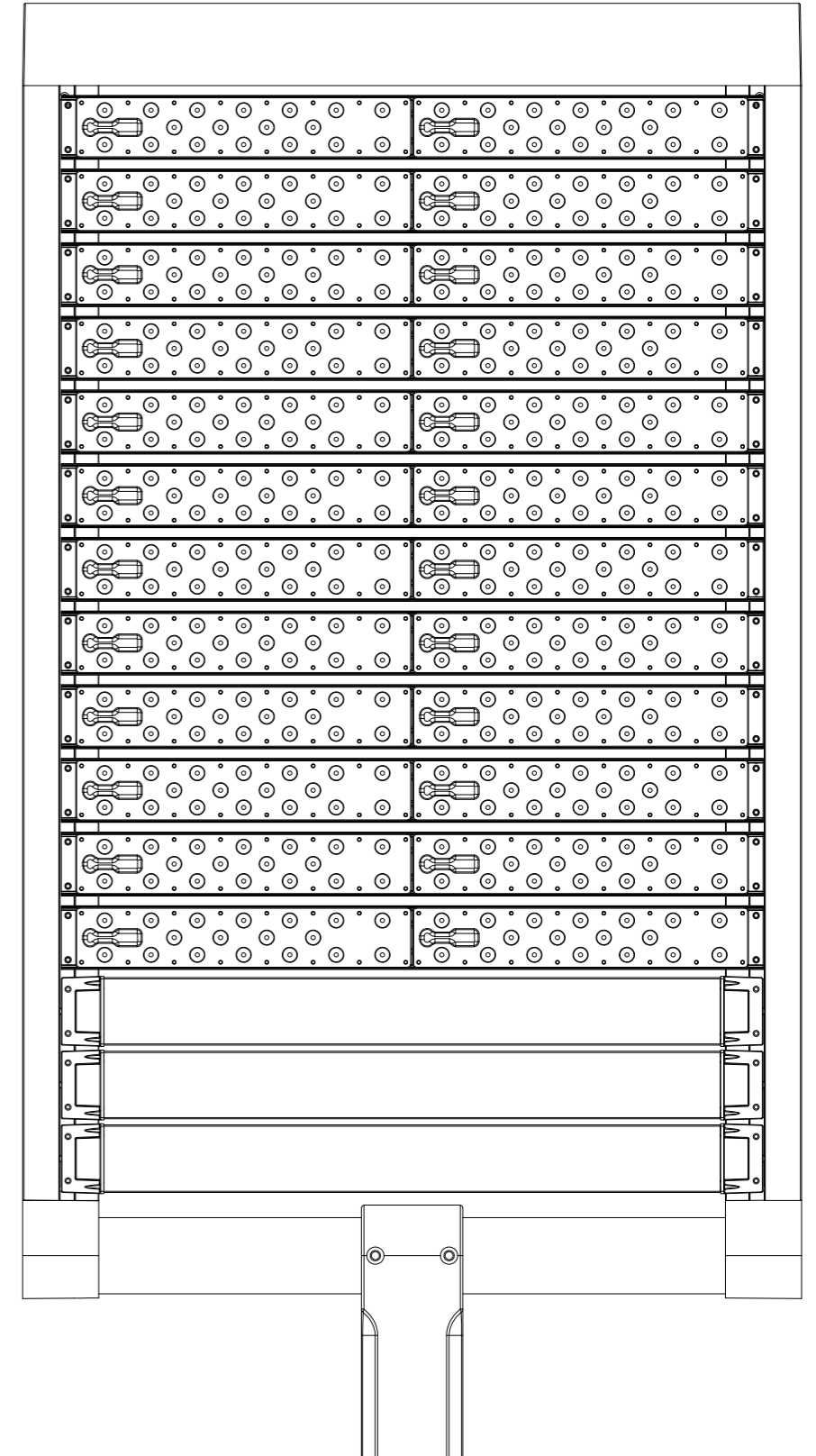
01.3/5/7 -pin NEMA Receptacle+Shorting Cap/Photocell



02. Separate Driver Module



03. Backlight Shield



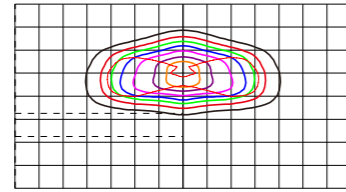


# ACCESSORIES OPTICS

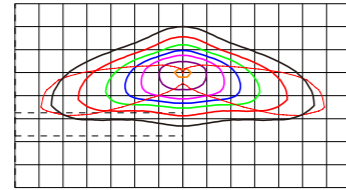
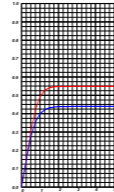
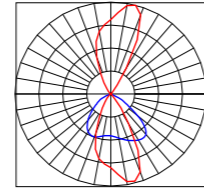
ISO Plot

Polar Curve

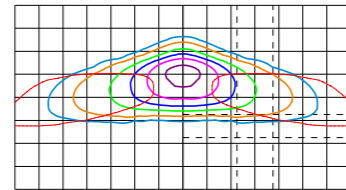
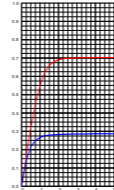
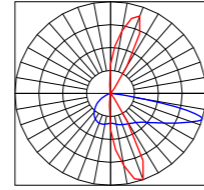
Cu Graph



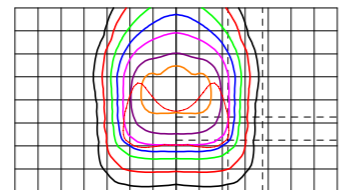
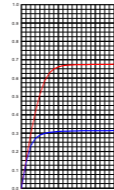
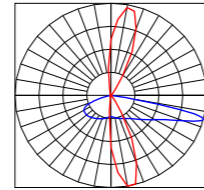
**T2M** Type II Medium



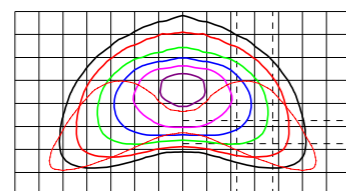
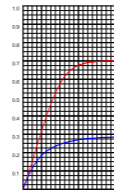
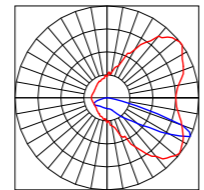
**T3M** Type III Medium



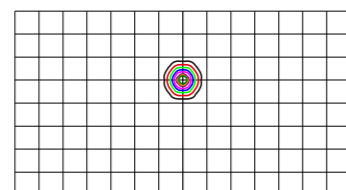
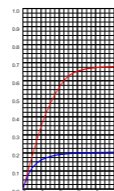
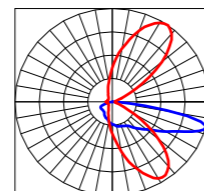
**T3L** Type III Long



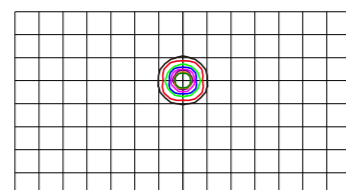
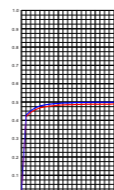
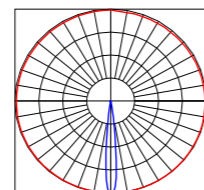
**T4S** Type IV Short



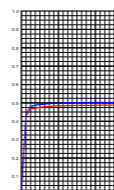
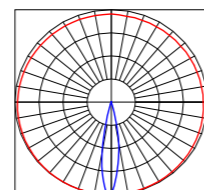
**T4M** Type IV Medium



**T5U** Average beam angle 10°



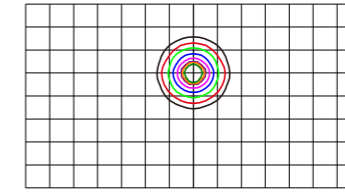
**T5V** Average beam angle 25°



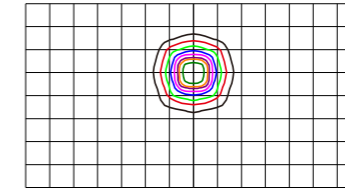
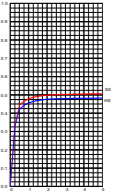
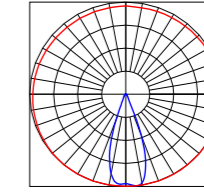
ISO Plot

Polar Curve

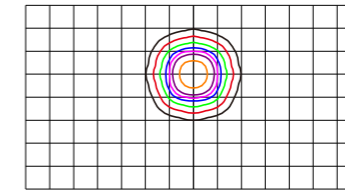
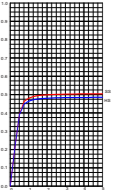
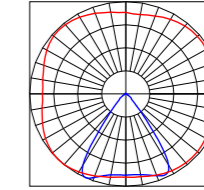
Cu Graph



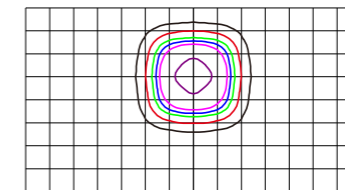
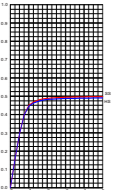
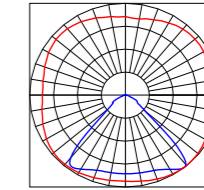
**T5W** Average beam angle 40°



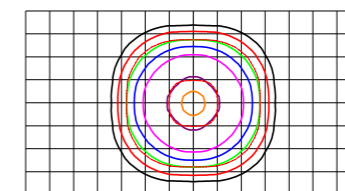
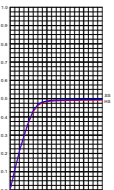
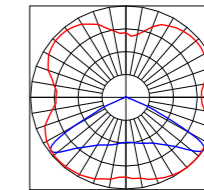
**T5S** Average beam angle 60°



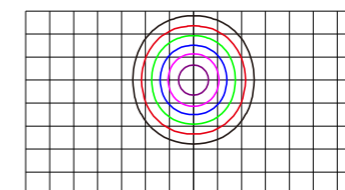
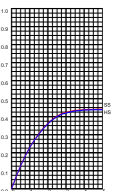
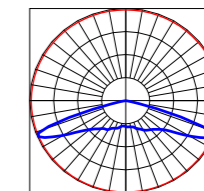
**T5M** Average beam angle 90°



**T5L** Average beam angle 120°



**T5X** Average beam angle 150°



**T5D** Diffuser

