

# ALFA SERIES FEATURES & BENEFITS

## 01. HOUSING

- Die cast aluminum housing.
- Modular design allows for easy installation, replacement and maintenance. This design also creates a chimney effect which enables passive heat dissipation.
- IK08 rated.
- Meets 3G vibration per ANSI C136.31-2010.

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

## 04. MOUNTING

- Side-entry or post-top mounting.
- Slipfitter with +/- 20 degree of adjustment for leveling.
- Standard mounting diameter is 2 3/8"(60mm), custom adaptors are available for smaller diameters.
- Brackets are available for different installations.

## 05. Electrical/ Key Components/ Controls

- 120-277VAC and 347-480VAC and 12-24VDC available.
- Standard maximum surge protection to 20kV/10kA per ANSI/IEEE C62.41.2-2002.
- First class driver and connectors, e.g. MOLEX, WAGO.
- Multiple smart lighting control options are available, e.g. photocell, motion sensor, DALI, 1-10V.
- 3-pin/ 5-pin/ 7-pin photocell are available for light level adjustments.

## 06. Product Certifications

- UL/CUL/DLC/LM79/SAA/ENEC/CB/CE/IP67/ErP/RoHS/PSE/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))



Horizontal Tenon Mount



Pole Top Mount



# TECHNICAL PARAMETERS

# PRODUCT MODEL

<b>Power</b>	30-320W	<b>Min CRI</b>	70* or 80 or 90
<b>Input</b>	120 - 277VAC or 220-240VAC or 347-480 VAC or 12-24 VDC	<b>IP Rating</b>	IP67
<b>PF</b>	>0.95	<b>SPD</b>	10KA* or 20KA
<b>THD</b>	<20%	<b>Certificate/Qualification</b>	UL / CUL / DLC / LM79 / SAA / ENEC / CB/CE / ErP / RoHS / PSE / IK08
<b>L70</b>	>200,000H	<b>DALI/1-10V</b>	Optional
<b>L90</b>	>100,000H	<b>Photocell</b>	Optional
<b>Operating Temperature</b>	-40°C ~ +50°C	<b>Smart Control</b>	Optional
<b>Typical Efficacy</b>	120-160lm/W	<b>Optic (IESNA)</b>	Type I, Type II, Type III, Type IV, Type V
<b>ANSI CCT</b>	3000K/4000K/5000K/5700K	<b>Color Options</b>	Grey/Black/Bronze/White

\* Standard

# ORDERING INFORMATION

MODEL (Nominal Power)				OPTIC LENS	CCT (ANSI)	OPTIONAL COLOR	LIGHTING CONTROL	ACCESSORY INFO
SLA30 30W	SLB40 40W	SLC80* 80W	SLD30** 30W	T1M Type I Medium	30K 3045	★GR Grey (RAL:7004)	00 Not required	Adaptor Bracket
SLA60 60W	SLB80 80W	SLC120* 120W	SLD40** 40W	T2M Type II Medium	±175K	BK Black (RAL:9011)	01 Photocell	Bird Spike
SLA90 90W	SLB120 120W	SLC160* 160W	SLD60** 60W	T3M Type III Medium	★40K 3985	BZ Bronze (RAL:8019)	02 Motion Sensor	3/5/7-pin NEMA Receptacle
SLA120 120W	SLB160 160W	SLC200* 200W	SLD80** 80W	T3L Type III Long	±275K	WH White (RAL:9010)	03 Photocell +	20KA Surge Protection Device
SLA150 150W	SLB200 200W	SLC240* 240W	SLD90** 90W	T4S Type IV Short	★50K 5028		04 Motion Sensor	Back Light Shield
SLA180 180W	SLB240 240W	SLC280* 280W	SLD120** 120W	T4M Type IV Medium	±283K		05 DALI	Safety Cable
SLA210 210W	SLB280 280W	SLC320* 320W		T5U Average beam angle 10°	57K 5665			
SLA240 240W	SLB320 320W			T5V Average beam angle 25°	±355K			
SLA270 270W				T5W Average beam angle 40°				
SLA300 300W				T5S Average beam angle 60°				
				T5M Average beam angle 90°				
				T5L Average beam angle 120°				
				T5X Average beam angle 150°				
				T5D Diffuser				

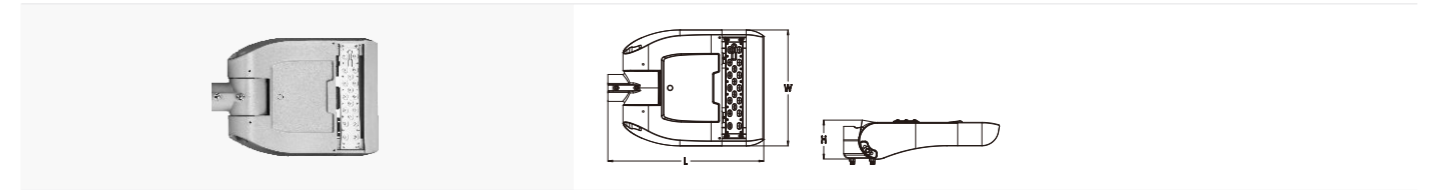
\* DALI & Motion sensor unavailable

\*\* 1-10V dimming & DALI & Motion sensor unavailable

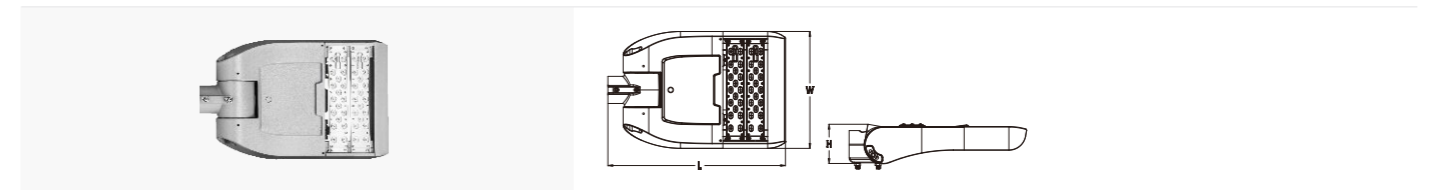
★ Regularly stocked item

● Example 1: SLA30-T3M-50K-GR-03

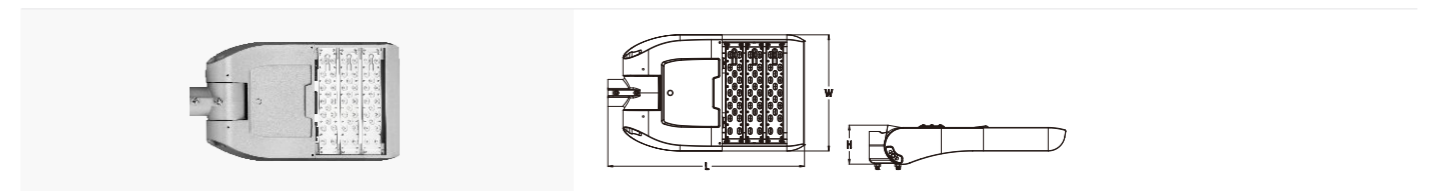
● Example 2: SLB40-T2M-50K-BK-02



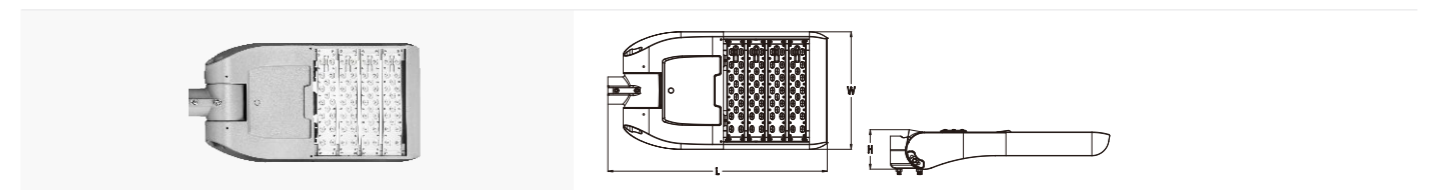
Model	SLA30/SLB40/SLD30/SLD40	Net Weight	6.13kg(13.51lbs)	Model No.	System Power	Voltage	Drive Current	Luminous Flux		Efficacy (lm/W)
LED Modules	1	Gross Weight	6.94kg(15.30lbs)	SLA30	31W	120-277VAC	530mA	3000K	4000/5000K	130
LEDs	18	Product Dimensions	463x345x116mm 18.23"x13.58"x4.57"	SLB40	41W	120-277VAC	700mA	4613lm	5125lm	125
EPA(sq.ft.)	0.72	Carton Dimensions	525x415x175mm 20.67"x16.34"x6.89"	SLD30	31W	9-18VDC or 18-32VDC	500mA	3627lm	4030lm	130
				SLD40	41W	9-18VDC or 18-32VDC	700mA	4613lm	5125lm	125



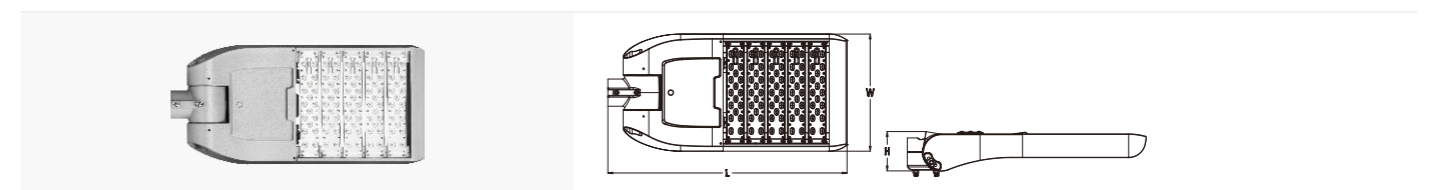
Model	SLA60/SLB80/SLC80/SLD60/SLD80	Net Weight	7.09kg(15.63lbs)	Model No.	System Power	Voltage	Drive Current	Luminous Flux		Efficacy (lm/W)
LED Modules	2	Gross Weight	8.12kg(17.90lbs)	SLA60	61W	120-277VAC	530mA	3000K	4000/5000K	132
LEDs	36	Product Dimensions	523x345x116mm 20.59"x13.58"x4.57"	SLB80	78W	120-277VAC	700mA	7247lm	8052lm	128
EPA(sq.ft.)	0.783	Carton Dimensions	585x415x175mm 23.03"x16.34"x6.89"	SLC80	78W	347-480VAC	700mA	8986lm	9984lm	128
				SLD60	61W	9-18VDC or 18-32VDC	500mA	7247lm	8052lm	132
				SLD80	78W	9-18VDC or 18-32VDC	700mA	8986lm	9984lm	128



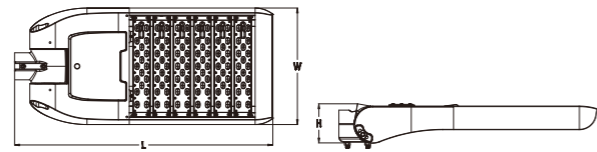
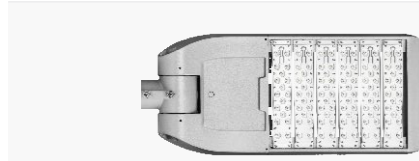
Model	SLA90/SLB120/SLC120/SLD90/SLD120	Net Weight	8.02kg(17.68lbs)	Model No.	System Power	Voltage	Drive Current	Luminous Flux		Efficacy (lm/W)
LED Modules	3	Gross Weight	9.24kg(20.37lbs)	SLA90	87W	120-277VAC	530mA	3000K	4000/5000K	135
LEDs	54	Product Dimensions	583x345x116mm 22.95"x13.58"x4.57"	SLB120	118W	120-277VAC	700mA	10571lm	11745lm	130
EPA(sq.ft.)	0.846	Carton Dimensions	645x415x175mm 25.39"x16.34"x6.89"	SLC120	118W	347-480VAC	700mA	13806lm	15340lm	130
				SLD90	87W	9-18VDC or 18-32VDC	500mA	10571lm	11745lm	135
				SLD120	118W	9-18VDC or 18-32VDC	700mA	13806lm	15340lm	130



Model	SLA120/SLB160/SLC160	Net Weight	8.71kg(19.20lbs)	Model No.	System Power	Voltage	Drive Current	Luminous Flux		Efficacy (lm/W)
LED Modules	4	Gross Weight	9.84kg(21.69lbs)	SLA120	110W	120-277VAC	530mA	3000K	4000/5000K	135
LEDs	72	Product Dimensions	643x345x116mm 25.31"x13.58"x4.57"	SLB160	156W	120-277VAC	700mA	18252lm	20280lm	130
EPA(sq.ft.)	0.912	Carton Dimensions	705x415x175mm 27.76"x16.34"x6.89"	SLC160	156W	347-480VAC	700mA	18252lm	20280lm	130

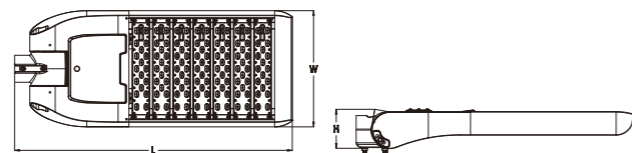
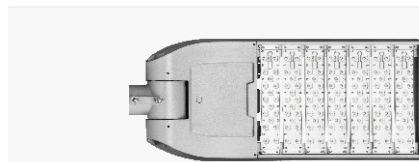


Model	SLA150/SLB200/SLC200	Net Weight	9.47kg(20.88lbs)	Model No.	System Power	Voltage	Drive Current	Luminous Flux		Efficacy (lm/W)
LED Modules	5	Gross Weight	10.73kg(23.66lbs)	SLA150	141W	120-277VAC	530mA	3000K	4000/5000K	135
LEDs	90	Product Dimensions	703x345x116mm 27.68"x13.58"x4.57"	SLB200	196W	120-277VAC	700mA	22932lm	25480lm	130
EPA(sq.ft.)	0.977	Carton Dimensions	765x415x175mm 30.12"x16.34"x6.89"	SLC200	196W	347-480VAC	700mA	22932lm	25480lm	130



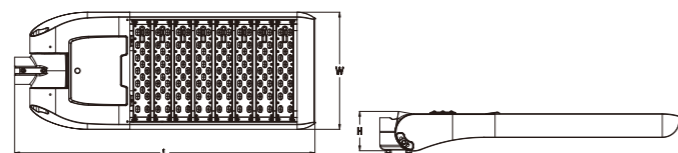
Model	SLA180/SLB240/SLC240	Net Weight	10.98kg(24.21lbs)
LED Modules	6	Gross Weight	12.35kg(27.23lbs)
LEDs	108	Product Dimensions	763x345x116mm 30.04"x13.58"x4.57"
EPA(sq.ft.)	1.046	Carton Dimensions	825x415x175mm 32.48"x16.34"x6.89"

Model No.	System Power	Voltage	Drive Current	Luminous Flux		Efficacy (lm/W)
				3000K	4000 /5000K	
SLA180	172W	120-277VAC	530mA	20898lm	23220lm	135
SLB240	234W	120-277VAC	700mA	27378lm	30420lm	130
SLC240	234W	347-480VAC	700mA	27378lm	30420lm	130



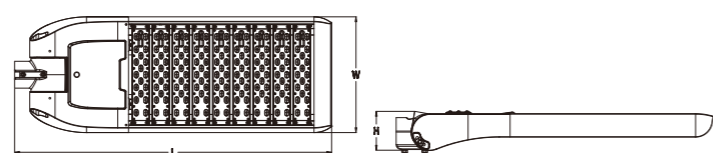
Model	SLA210/SLB280/SLC280	Net Weight	11.62kg(25.62lbs)
LED Modules	7	Gross Weight	13.0kg(28.66lbs)
LEDs	126	Product Dimensions	823x345x116mm 32.40"x13.58"x4.57"
EPA(sq.ft.)	1.115	Carton Dimensions	885x415x175mm 34.84"x16.34"x6.89"

Model No.	System Power	Voltage	Drive Current	Luminous Flux		Efficacy (lm/W)
				3000K	4000 /5000K	
SLA210	202W	120-277VAC	530mA	24543lm	27270lm	135
SLB280	274W	120-277VAC	700mA	32058lm	35620lm	130
SLC280	274W	347-480VAC	700mA	32058lm	35620lm	130



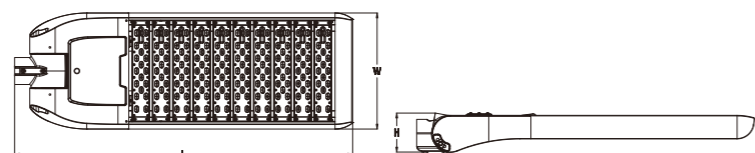
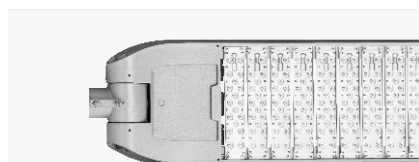
Model	SLA240/SLB320/SLC320	Net Weight	12.39kg(27.32lbs)
LED Modules	8	Gross Weight	13.72kg(30.25lbs)
LEDs	144	Product Dimensions	883x345x116mm 34.76"x13.58"x4.57"
EPA(sq.ft.)	1.184	Carton Dimensions	945x415x175mm 37.20"x16.34"x6.89"

Model No.	System Power	Voltage	Drive Current	Luminous Flux		Efficacy (lm/W)
				3000K	4000 /5000K	
SLA240	228W	120-277VAC	530mA	27702lm	30780lm	135
SLB320	310W	120-277VAC	700mA	36270lm	40300lm	130
SLC320	310W	347-480VAC	700mA	36270lm	40300lm	130



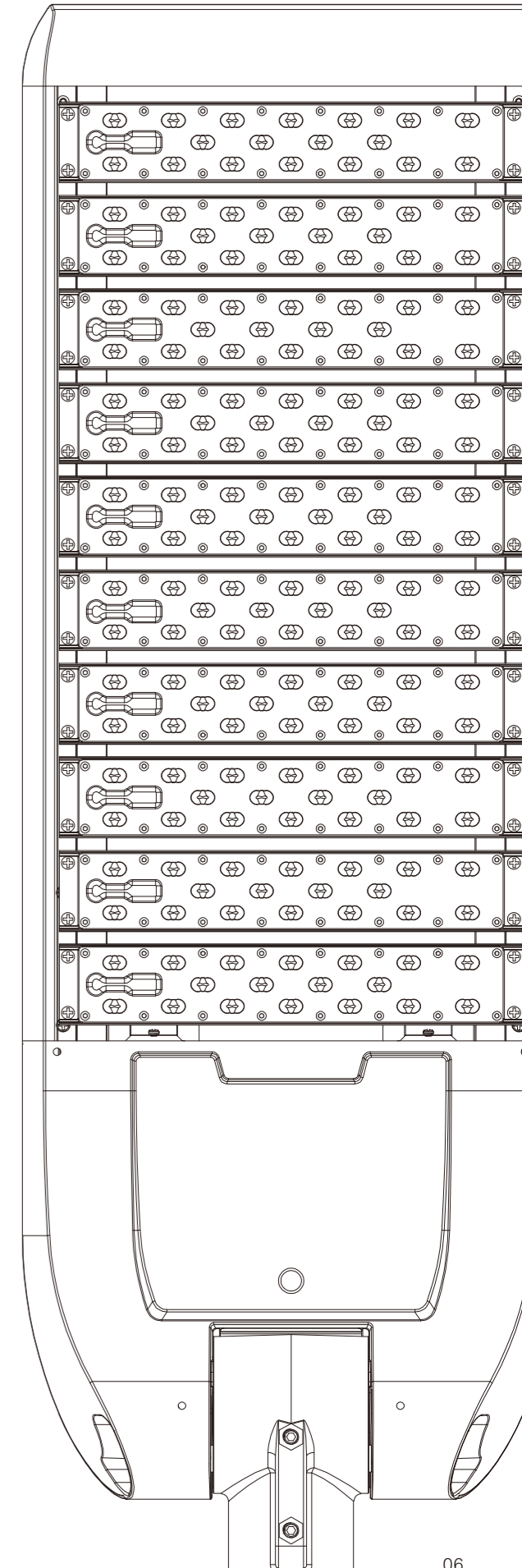
Model	SLA270	Net Weight	13.06kg(28.79lbs)
LED Modules	9	Gross Weight	14.66kg(32.32lbs)
LEDs	162	Product Dimensions	943x345x116mm 37.13"x13.58"x4.57"
EPA(sq.ft.)	1.254	Carton Dimensions	1005x415x175mm 39.57"x16.34"x6.89"

Model No.	System Power	Voltage	Drive Current	Luminous Flux		Efficacy (lm/W)
				3000K	4000 /5000K	
SLA270	256W	120-277VAC	530mA	31104lm	34560lm	135



Model	SLA300	Net Weight	13.73kg(30.27lbs)
LED Modules	10	Gross Weight	15.60kg(34.39lbs)
LEDs	180	Product Dimensions	1003x345x116mm 39.49"x13.58"x4.57"
EPA(sq.ft.)	1.325	Carton Dimensions	1065x415x175mm 41.93"x16.34"x6.89"

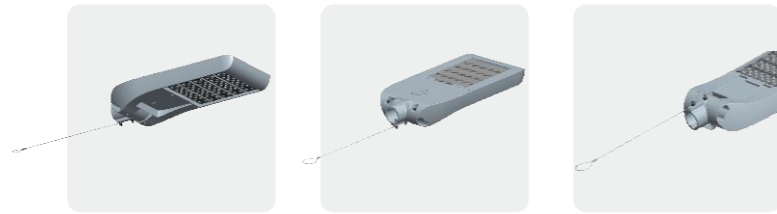
Model No.	System Power	Voltage	Drive Current	Luminous Flux		Efficacy (lm/W)
				3000K	4000 /5000K	
SLA300	283W	120-277VAC	530mA	34385lm	38205lm	135



# CUSTOMIZED SOLUTIONS



01.Safety Cable



02.Bird Spike



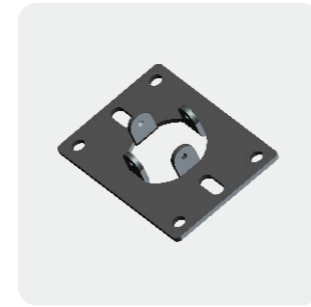
03.Tool-less Entry



04.3/5/7 -pin NEMA Receptacle+Shorting Cap/Photocell



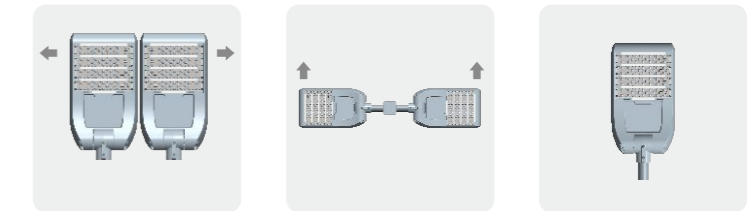
05.Pole Tenon Adaptor



06.Square Pole Adaptor



07.Left Throw & Right Throw Lens

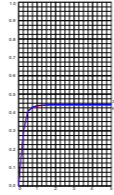
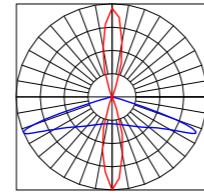
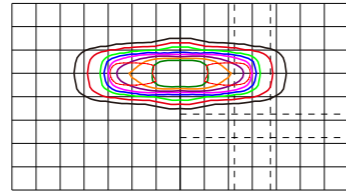


08.Backlight Shield

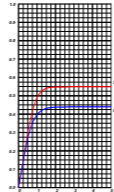
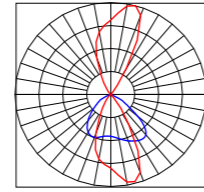
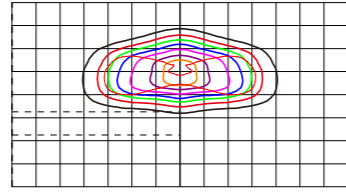


# ACCESSORIES OPTICS

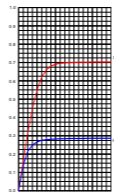
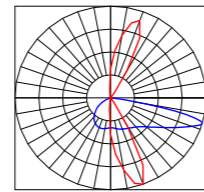
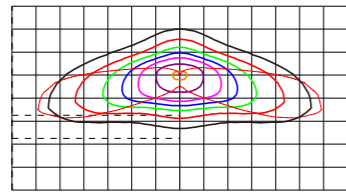
ISO Plot      Polar Curve      Cu Graph



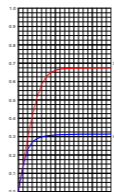
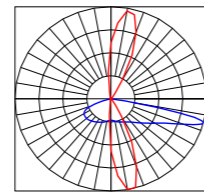
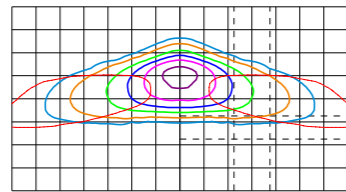
**T1M** Type I Medium



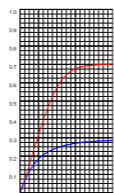
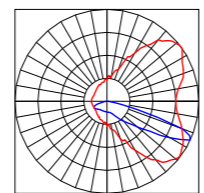
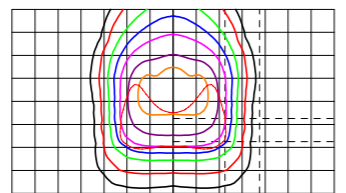
**T2M** Type II Medium



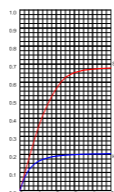
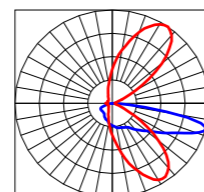
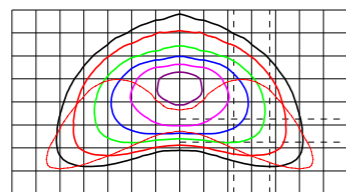
**T3M** Type III Medium



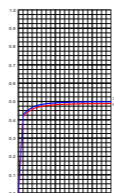
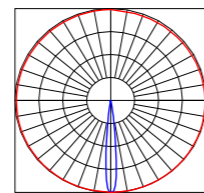
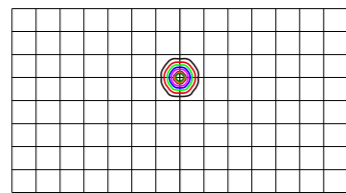
**T3L** Type III Long



**T4S** Type IV Short

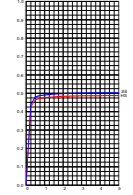
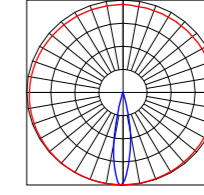
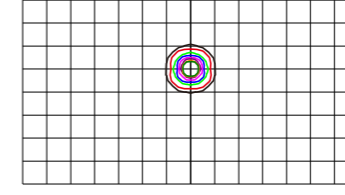


**T4M** Type IV Medium

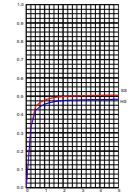
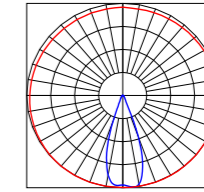
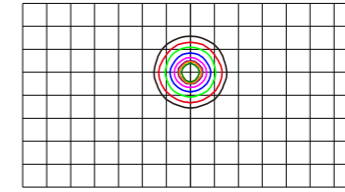


**T5U** Average beam angle 10°

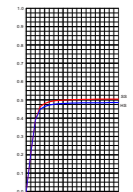
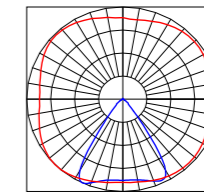
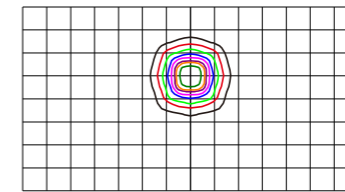
ISO Plot      Polar Curve      Cu Graph



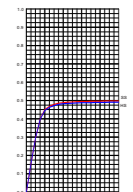
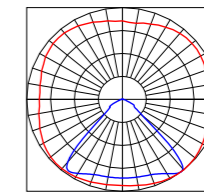
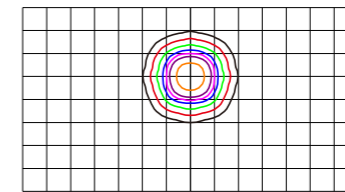
**T5V** Average beam angle 25°



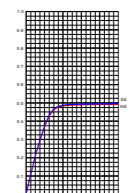
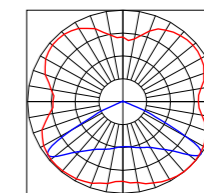
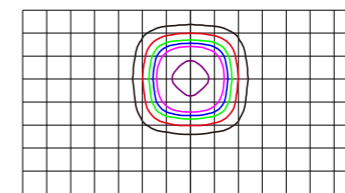
**T5W** Average beam angle 40°



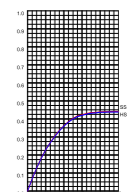
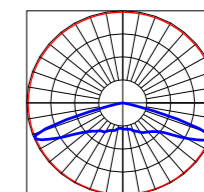
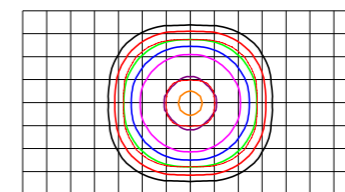
**T5S** Average beam angle 60°



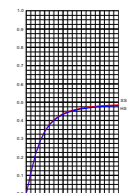
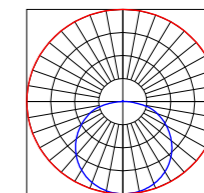
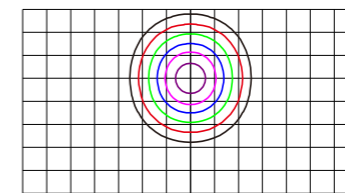
**T5M** Average beam angle 90°



**T5L** Average beam angle 120°



**T5X** Average beam angle 150°



**T5D** Diffuser