

# ARRLUX



LED STREET LIGHT  
**ALFA Series**



# ALFA Series

Certifications: UL/ CUL/ DLC/ LM79/ SAA/ ENEC/ CB/ CE/ ErP/ RoHS/ PSE/ IK08

## 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.

## 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.



## 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.



## 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.

## 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.



Horizontal Tenon Mount



Pole Top Mount

# TECHNICAL PARAMETERS

Power	30-320W
Input	120-277 VAC or 220-240 VAC or 347-480 VAC or 12-24 VDC
PF	>0.95
THD	<20%
L85	>60,000H
Operating Temperature	-40°C ~ +50°C
Efficacy	120-140lm/W
ANSI CCT	3000K/4000K/5000K/5700K
Min CRI	70* or 80 or 85

IP Rating	IP67
SPD	10KA* or 20KA
Certificate/Qualification	UL/ CUL/ DLC/ LM79/ SAA/ ENEC/ CB/ CE/ ErP/ RoHS/ PSE/ IK08
DALI	Optional
1-10V	Optional
Photocell	Optional
Smart Control	Optional
Optic (IESNA)	Type I, Type II, Type III, Type IV, Type V
Color Options	Grey/Black/Bronze/White

## ORDERING INFORMATION

MODEL (Nominal Power)				OPTIC LENS	CCT (ANSI)	OPTIONAL COLOR	LIGHTING CONTROL	ACCESSORY INFO
SLA30 30W	SLB40 40W	SLC80* 80W	SLD30** 30W	T1S Type I Short	30K 3045	★ GR Grey (RAL:7004)	00 Not required	Adaptor Bracket
SLA60 60W	SLB80 80W	SLC120* 120W	SLD40** 40W	T2M Type II Medium	±175K		01 Photocell	Bird Spike
SLA90 90W	SLB120 120W	SLC160* 160W	SLD60** 60W	T3M Type III Medium	★ 40K 3985	BK Black (RAL:9011)	02 Motion Sensor	3/5/7-pin NEMA Receptacle
SLA120 120W	SLB160 160W	SLC200* 200W	SLD80** 80W	T3L Type III Long	±275K		03 Photocell + Motion Sensor	20KA Surge Protection Device
SLA150 150W	SLB200 200W	SLC240* 240W	SLD90** 90W	T4S Type IV Short	★ 50K 5028	BZ Bronze (RAL:8014)		
SLA180 180W	SLB240 240W	SLC280* 280W	SLD120** 120W	T4M Type IV Medium	±283K			Back Light Shield
SLA210 210W	SLB280 280W	SLC320* 320W		T5U Average beam angle 10°	57K 5665	WH White (RAL:9010)	04 DALI	Safety Cable
SLA240 240W	SLB320 320W			T5V Average beam angle 25°	±355K		05 1-10V dimming	
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				

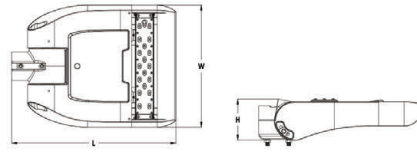
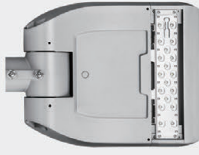
\* DALI & Motion sensor unavailable

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

★ Regularly stocked item

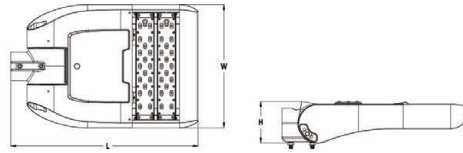
- Example 1: SLA30-T1S-50K-GR-03
- Example 2: SLB40-T2M-50K-BK-02
- Example 3: SLC80-T3L-50K-BZ-05
- Example 4: SLD40-T5S-50K-WH-00

# PRODUCTS



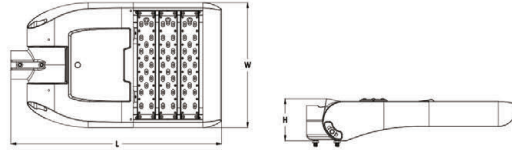
Model	SLA30/SLB40/SLD30/SLD40	Net Weight	6.13kg (13.51lbs)
LED Modules	1	Gross Weight	6.94kg (15.30lbs)
LEDs	18	Product Dimensions	463 x 345 x 116mm (18.23"x13.58"x4.57")
EPA (sq.ft.)	0.72	Carton Dimensions	525 x 415 x 175mm (20.67"x16.34"x6.89")

Model No.	System Power	Voltage	Drive Current	Luminous Flux		Efficacy(lm/W)
				3000K	4000/5000K	
SLA30	33W	120-277VAC	530mA	6912lm	3960lm	120
SLB40	42W	120-277VAC	700mA	4347lm	4830lm	115
SLD30	33W	9-18VDC or 18-32VDC	500mA	3564lm	3960lm	120
SLD40	42W	9-18VDC or 18-32VDC	700mA	4347lm	4830lm	115



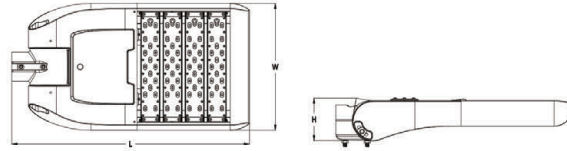
Model	SLA60/SLB80/SLC80/SLD60/SLD80/SLD80	Net Weight	7.09kg (15.63lbs)
LED Modules	2	Gross Weight	8.12kg (17.90lbs)
LEDs	36	Product Dimensions	523 x 345 x 116mm (20.59"x13.58"x4.57")
EPA (sq.ft.)	0.783	Carton Dimensions	585 x 415 x 175mm (23.03"x16.34"x6.89")

Model No.	System Power	Voltage	Drive Current	Luminous Flux		Efficacy(lm/W)
				3000K	4000/5000K	
SLA60	64W	120-277VAC	530mA	6912lm	7680lm	120
SLB80	84W	120-277VAC	700mA	8694lm	9660lm	115
SLC80	84W	347-480VAC	700mA	8694lm	9660lm	115
SLD60	64W	9-18VDC or 18-32VDC	500mA	6912lm	7680lm	120
SLD80	84W	9-18VDC or 18-32VDC	700mA	8694lm	9660lm	115



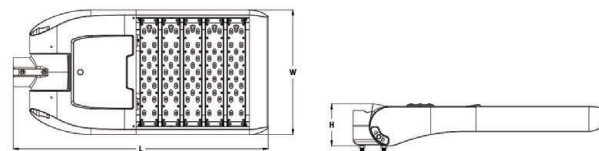
Model	SLA90/SLB120/SLC120/SLD90/SLD120	Net Weight	8.02kg (17.68lbs)
LED Modules	3	Gross Weight	9.24kg (20.37lbs)
LEDs	54	Product Dimensions	583 x 345 x 116mm (22.95"x13.58"x4.57")
EPA (sq.ft.)	0.846	Carton Dimensions	645 x 415 x 175mm (25.39"x16.34"x6.89")

Model No.	System Power	Voltage	Drive Current	Luminous Flux		Efficacy(lm/W)
				3000K	4000/5000K	
SLA90	92W	120-277VAC	530mA	10350lm	11500lm	125
SLB120	125W	120-277VAC	700mA	13500lm	15000lm	120
SLC120	125W	347-480VAC	700mA	13500lm	15000lm	120
SLD90	92W	9-18VDC or 18-32VDC	500mA	10350lm	11500lm	125
SLD120	125W	9-18VDC or 18-32VDC	700mA	13500lm	15000lm	120



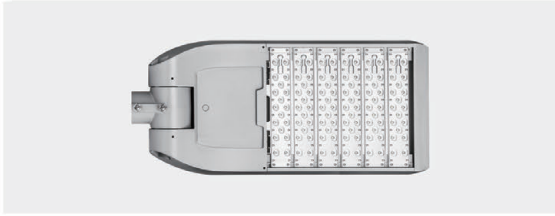
Model	SLA120/SLB160/SLC160	Net Weight	8.71kg (19.20lbs)
LED Modules	4	Gross Weight	9.84kg (21.69lbs)
LEDs	72	Product Dimensions	643 x 345 x 116mm (25.31"x13.58"x4.57")
EPA (sq.ft.)	0.912	Carton Dimensions	705 x 415 x 175mm (27.76"x16.34"x6.89")

Model No.	System Power	Voltage	Drive Current	Luminous Flux		Efficacy(lm/W)
				3000K	4000/5000K	
SLA120	121W	120-277VAC	530mA	13613lm	15125lm	125
SLB160	166W	120-277VAC	700mA	17928lm	19920lm	120
SLC160	166W	347-480VAC	700mA	17928lm	19920lm	120

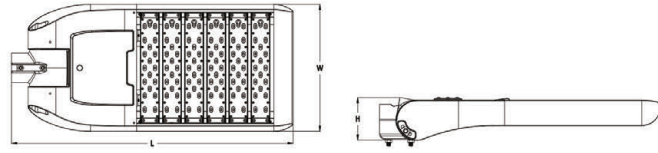


Model	SLA150/SLB200/SLC200	Net Weight	9.47kg (20.88lbs)
LED Modules	5	Gross Weight	10.73kg (23.66lbs)
LEDs	90	Product Dimensions	703 x 345 x 116mm (27.68"x13.58"x4.57")
EPA (sq.ft.)	0.977	Carton Dimensions	765 x 415 x 175mm (30.12"x16.34"x6.89")

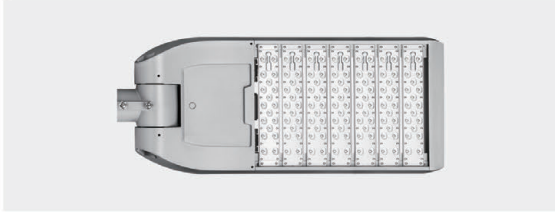
Model No.	System Power	Voltage	Drive Current	Luminous Flux		Efficacy(lm/W)
				3000K	4000/5000K	
SLA150	151W	120-277VAC	530mA	16988lm	18875lm	125
SLB200	205W	120-277VAC	700mA	22140lm	24600lm	120
SLC200	205W	347-480VAC	700mA	22140lm	24600lm	120



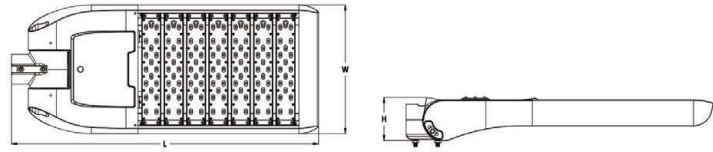
Model	SLA180/SLB240/SLC240	Net Weight	10.98kg (24.21lbs)
LED Modules	6	Gross Weight	12.35kg (27.23lbs)
LEDs	108	Product Dimensions	763 x 345 x 116mm 30.04"x13.58"x4.57"
EPA (sq.ft.)	1.046	Carton Dimensions	825 x 415 x 175mm 32.48"x16.34"x6.89"



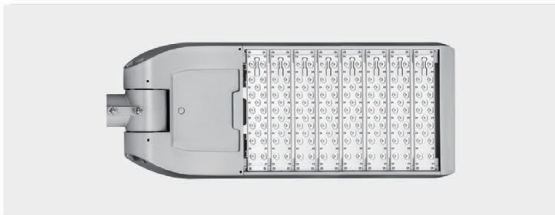
Model No.	System Power	Voltage	Drive Current	Luminous Flux		Efficacy(lm/W)
				3000K	4000/5000K	
SLA180	182W	120-277VAC	530mA	20475lm	22750lm	125
SLB240	246W	120-277VAC	700mA	26568lm	29520lm	120
SLC240	246W	347-480VAC	700mA	26568lm	29520lm	120



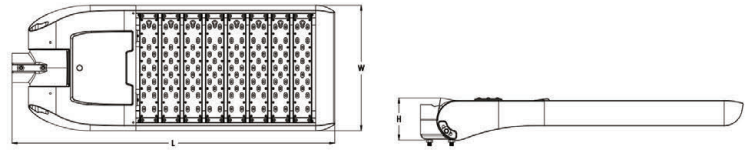
Model	SLA210/SLB280/SLC280	Net Weight	11.62kg (25.62lbs)
LED Modules	7	Gross Weight	13.0kg (28.66lbs)
LEDs	126	Product Dimensions	823 x 345 x 116mm 32.40"x13.58"x4.57"
EPA (sq.ft.)	1.115	Carton Dimensions	885 x 415 x 175mm 34.84"x16.34"x6.89"



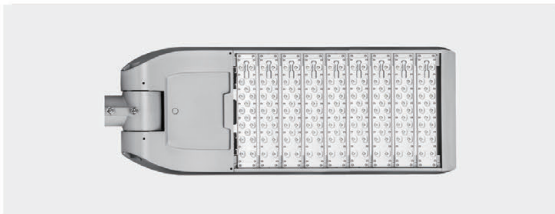
Model No.	System Power	Voltage	Drive Current	Luminous Flux		Efficacy(lm/W)
				3000K	4000/5000K	
SLA210	211W	120-277VAC	530mA	23738lm	26375lm	125
SLB280	285W	120-277VAC	700mA	30780lm	34200lm	120
SLC280	285W	347-480VAC	700mA	30780lm	34200lm	120



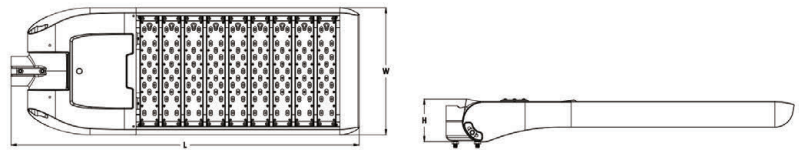
Model	SLA240/SLB320/SLC320	Net Weight	12.39kg (27.32lbs)
LED Modules	8	Gross Weight	13.72kg (30.25lbs)
LEDs	144	Product Dimensions	883 x 345 x 116mm 34.76"x13.58"x4.57"
EPA (sq.ft.)	1.184	Carton Dimensions	945 x 415 x 175mm 37.2"x16.34"x6.89"



Model No.	System Power	Voltage	Drive Current	Luminous Flux		Efficacy(lm/W)
				3000K	4000/5000K	
SLA240	240W	120-277VAC	530mA	27000lm	30000lm	125
SLB320	323W	120-277VAC	700mA	34884lm	38760lm	120
SLC320	323W	347-480VAC	700mA	34884lm	38760lm	120



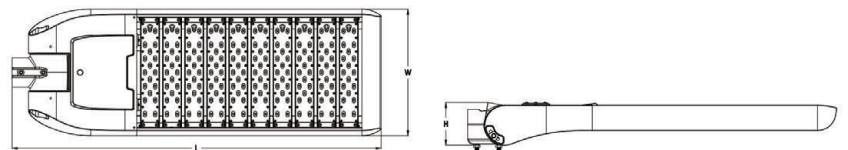
Model	SLA270	Net Weight	13.06kg(28.79lbs)
LED Modules	9	Gross Weight	14.66kg(32.32lbs)
LEDs	162	Product Dimensions	943 x 345 x 116mm 37.13"x13.58"x4.57"
EPA (sq.ft.)	1.254	Carton Dimensions	1005 x 415 x 175mm 39.57"x16.34"x6.89"



Model No.	System Power	Voltage	Drive Current	Luminous Flux		Efficacy(lm/W)
				3000K	4000/5000K	
SLA270	267W	120-277VAC	530mA	31239lm	34710lm	130

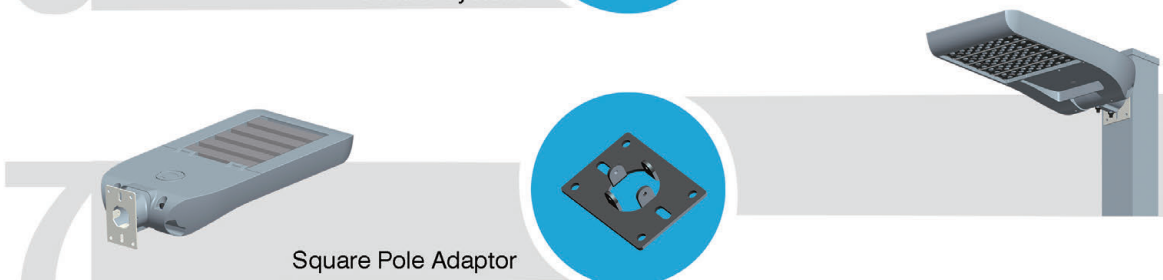
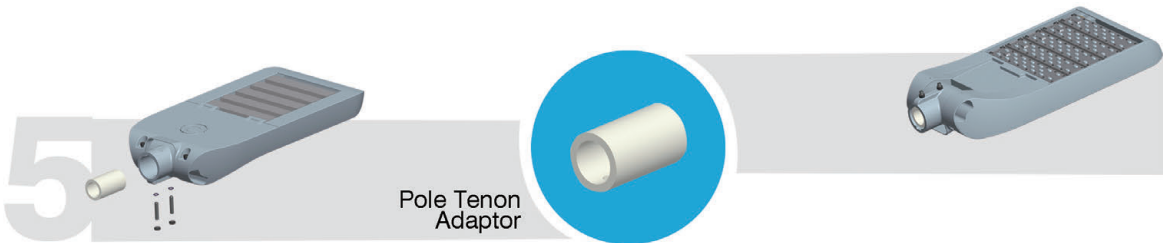
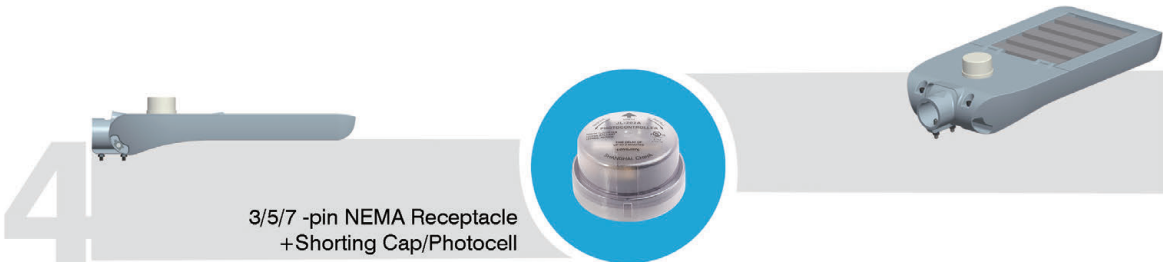
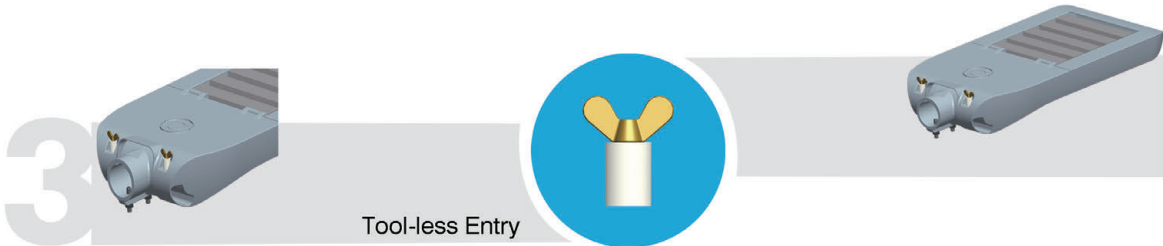
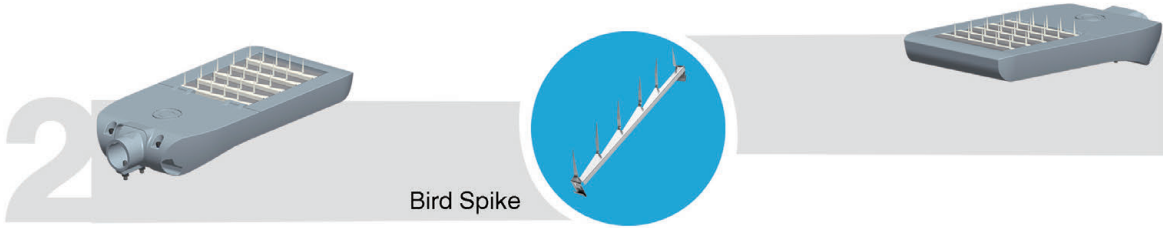
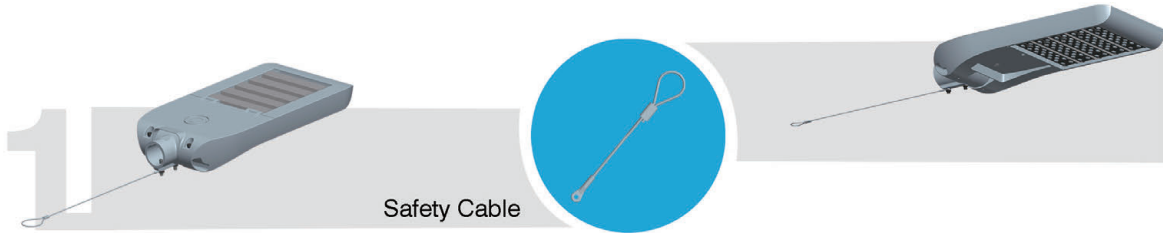


Model	SLA300	Net Weight	13.73kg (30.27lbs)
LED Modules	10	Gross Weight	15.6kg (34.39lbs)
LEDs	180	Product Dimensions	1003 x 345 x 116mm 39.49"x13.58"x4.57"
EPA (sq.ft.)	1.325	Carton Dimensions	1065 x 415 x 175mm 41.93"x16.34"x6.89"



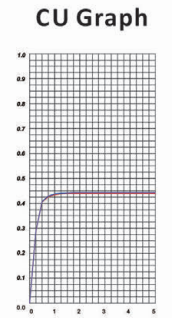
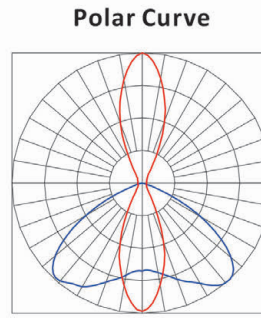
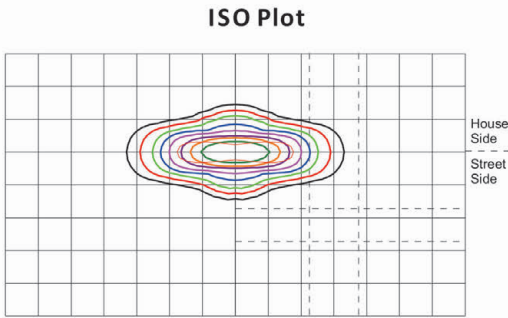
Model No.	System Power	Voltage	Drive Current	Luminous Flux		Efficacy(lm/W)
				3000K	4000/5000K	
SLA300	296W	120-277VAC	530mA	34632lm	38480lm	130

# CUSTOMIZED SOLUTIONS

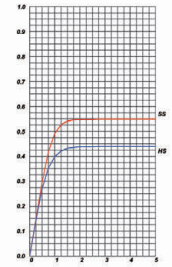
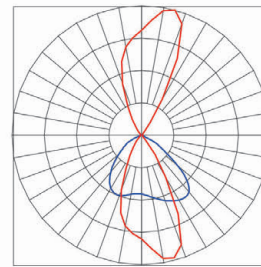
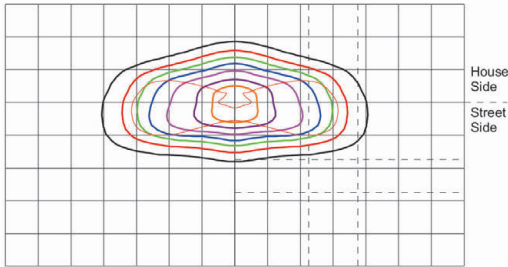


# PHOTOMETRICS

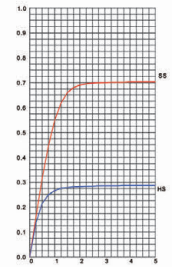
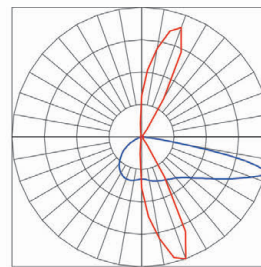
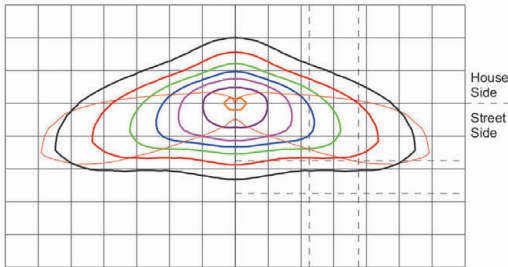
**T1S**  
Type I  
Short  
Typical use:  
Industrial  
Street/Roadside



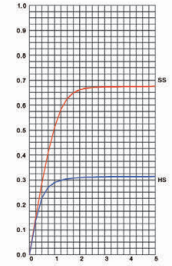
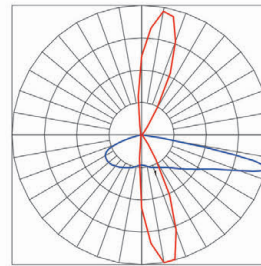
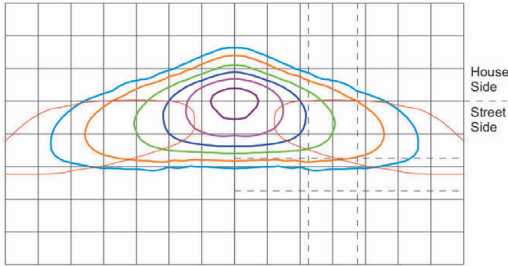
**T2M**  
Type II  
Medium  
Typical use:  
Street/Roadside



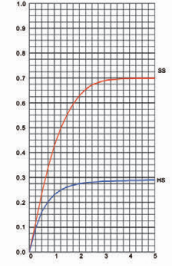
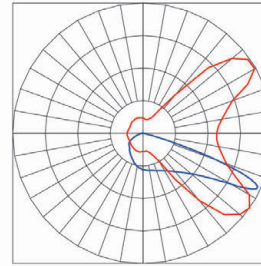
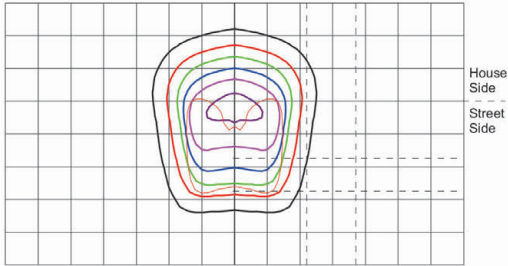
**T3M**  
Type III  
Medium  
Typical use:  
Street/Roadside



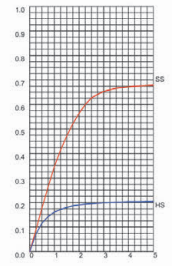
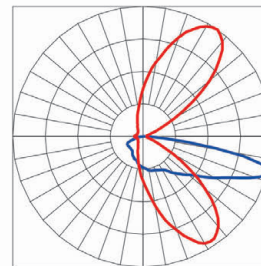
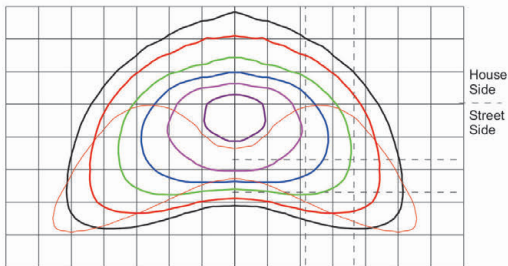
**T3L**  
Type III  
Long  
Typical use:  
Street/Roadside



**T4S**  
Type IV  
Short  
Typical use:  
Area/High mast



**T4M**  
Type IV  
Medium  
Typical use:  
Highway/Multi-Lane

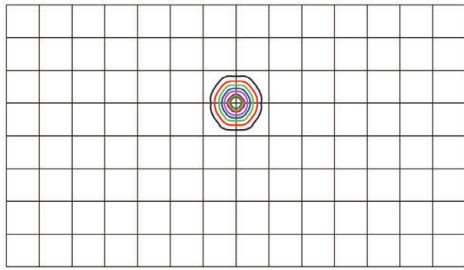


### ISO Plot

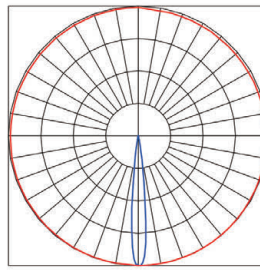
#### T5U

Average beam angle 10°

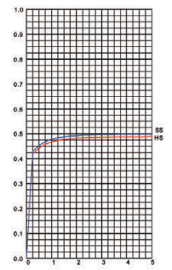
Typical use: Stadium



### Polar Curve



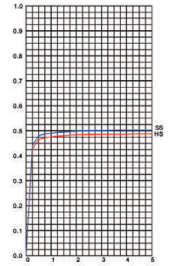
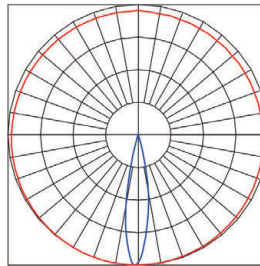
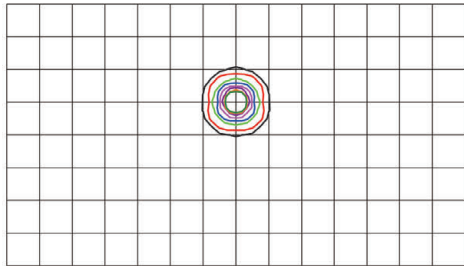
### CU Graph



#### T5V

Average beam angle 25°

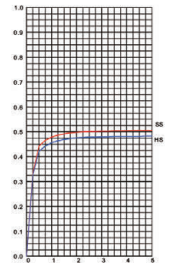
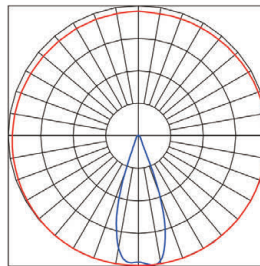
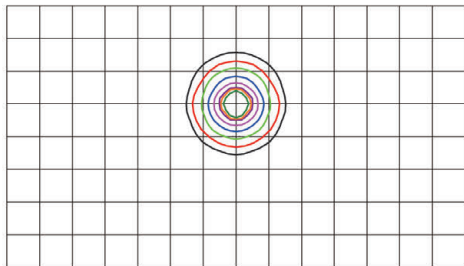
Typical use: Stadium



#### T5W

Average beam angle 40°

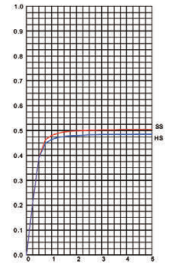
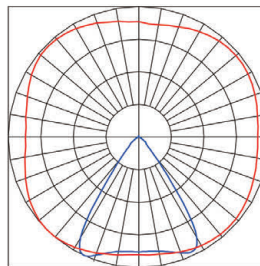
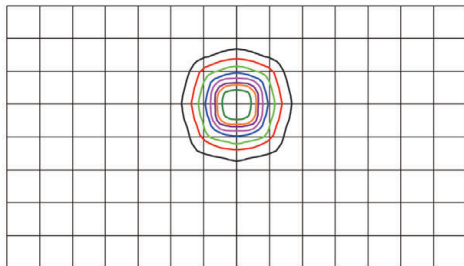
Typical use: Architectural



#### T5S

Average beam angle 60°

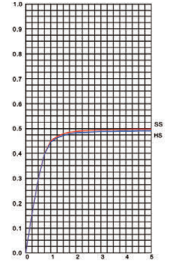
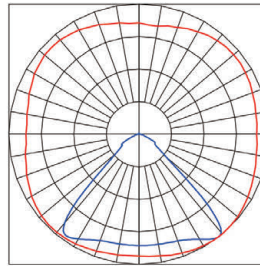
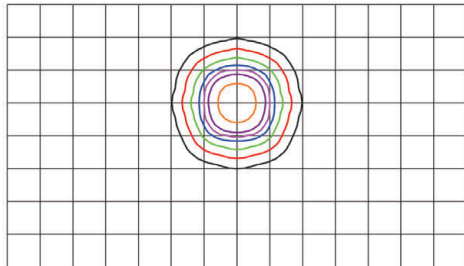
Typical use: Industrial



#### T5M

Average beam angle 90°

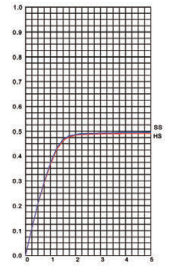
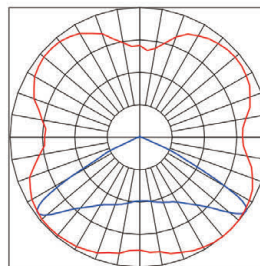
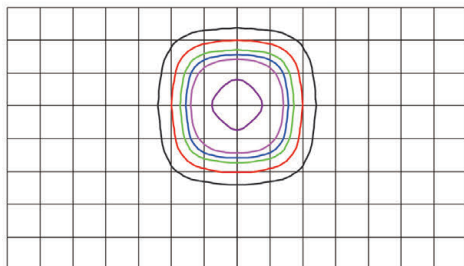
Typical use: Industrial



#### T5L

Average beam angle 120°

Typical use: Gas station



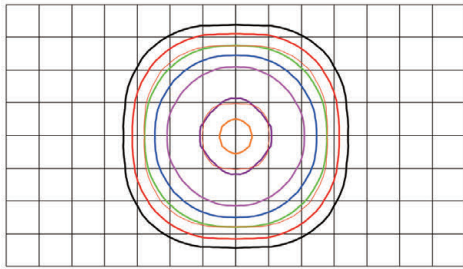


### T5X

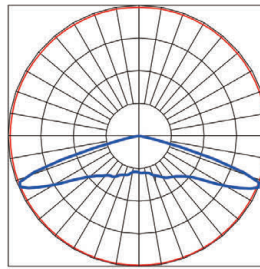
Average beam angle 150°

Typical use:  
Industrial  
Undercover carpark

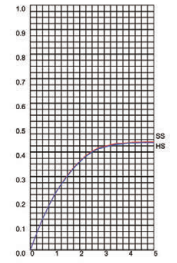
#### ISO Plot



#### Polar Curve



#### CU Graph

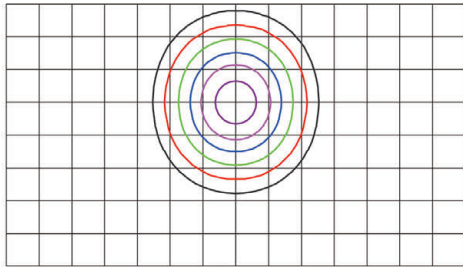


### T5D

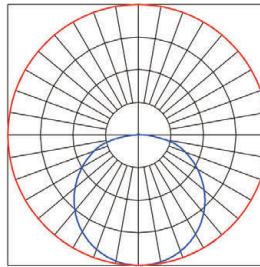
Diffuser

Typical use:  
Industrial

#### ISO Plot



#### Polar Curve



#### CU Graph

