

GAMA-U 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 provides exceptional thermal management.
- Meets 3G vibration per ANSI C136.31-2010.
- 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 15 optical lenses are available for virtually any application.
- Each LED module are 100% tested prior to assembly which is IP67 rated.

04.MOUNTING

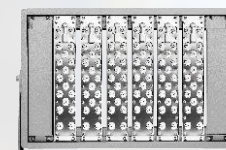
- Extremely flexible with 360 degree rotation.
- Interchangeable with the other GAMA Series with a bracket change.
- Brackets are available for different installations.

05.Electrical/ Key Components/ Controls

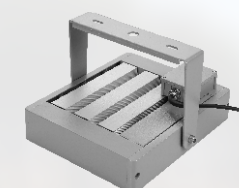
- 120-277VAC and 347-480VAC available.
- Surge protection to 20kV/10kA per ANSI/IEEE C62.41.2-2002 available.
- High quality LEDs, driver and components, e.g. MOLEX, WAGO connectors.
- Multiple smart lighting control options are available, e.g. photocell, motion sensor, DALI, 1-10V.

06.Product Certifications

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



UB customized option is optional:
cPower installed on both sides



TECHNICAL
PARAMETERS

Power	30-320W	Min CRI	70* or 80 or 90
Input	120 - 277VAC or 220-240VAC or 347-480 VAC	IP Rating	IP67
PF	>0.95	SPD	Optional
THD	<20%	Certificate/Qualification	UL/ CUL/ DLC/ LM79/ SAA/ ENEC/ CB/ CE/ ErP/ RoHS/ Ik08
L70	>200,000H	DALI/1-10V	Optional
L90	>100,000H	Photocell	Optional
Operating Temperature	-40°C ~ +50°C	Smart Control	Optional
Typical Efficacy	120-160lm/W	Optic (IESNA)	Type I, Type II, Type III, Type IV, Type V
ANSI CCT	3000K/4000K/5000K/5700K	Color Options	Grey/Black/Bronze/White

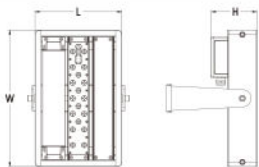
* Standard

ORDERING
INFORMATION

MODEL (Nominal Power)			MOUNTING	OPTIC LENS	CCT (ANSI)	OPTIONAL COLOR	LIGHTING CONTROL	ACCESSORY INFO
FLA30 30W	FLB40 40W	FLC80* 80W	U	T1M Type I Medium	30K 3045	★BK Black (RAL:9011)	00 Not required	Bird Spike
FLA60 60W	FLB80 80W	FLC120* 120W	※UB	T2M Type II Medium	±175K		01 Photocell	10KA/20KA Surge Protection Device
FLA90 90W	FLB120 120W	FLC160* 160W		T3M Type III Medium	★40K 3985	GR Grey (RAL:7004)	02 Motion Sensor	Back Light Shield
FLA120 120W	FLB160 160W	FLC200* 200W		T3L Type III Long	±275K		03 Photocell + Motion Sensor	Safety Cable
FLA150 150W	FLB200 200W	FLC240* 240W		T4S Type IV Short	★50K 5028	BZ Bronze (RAL:8019)		
FLA180 180W	FLB240 240W	FLC280* 280W		T4M Type IV Medium	±283K	WH White (RAL:9010)	04 DALI	
FLA210 210W	FLB280 280W	FLC320* 320W		T5U Average beam angle 10°	57K 5665		05 1-10V dimming	
FLA240 240W	FLB320 320W			T5V Average beam angle 25°	±355K			
FLA270 270W				T5W Average beam angle 40°				
FLA300 300W				T5S Average beam angle 60°				
				T5M Average beam angle 90°				
				T5L Average beam angle 120°				
				T5X Average beam angle 150°				
				T5D Diffuser				

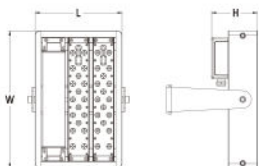
- * DALI & Motion sensor unavailable
- ★ Regularly stocked item
- ※ Customization is available
- Example 1: FLA30-U-T2M-50K-GR-03
- Example 2: FLB40-U-T5M-50K-BK-02

PRODUCT
MODEL

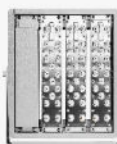



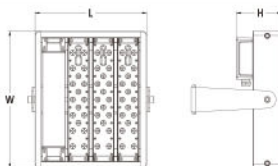
Model	FLA30-U/FLB40-U	Net Weight	5.04kg(11.10lbs)	Model No.	System Power	Voltage	Drive Current	Luminous Flux		Efficacy (lm/W)
LED Modules	1	Gross Weight	5.61kg(12.37lbs)	FLA30-U	31W	120-277VAC	530mA	3000K	4000 /5000K	
LEDs	18	Product Dimensions	210x330x110mm 8.27"x12.99"x4.33"	FLB40-U	41W	120-277VAC	700mA	3627lm	4030lm	130
EPA(sq.ft.)	0.347	Carton Dimensions	305x415x160mm 12.01"x16.34"x6.3"					4613lm	5125lm	125



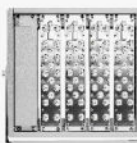


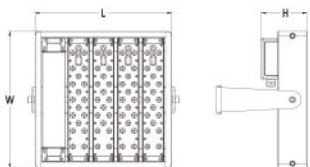
Model	FLA60-U/FLB80-U/ FLC80-U	Net Weight	5.19kg(11.44lbs)	Model No.	System Power	Voltage	Drive Current	Luminous Flux		Efficacy (lm/W)
LED Modules	2	Gross Weight	5.81kg(12.81lbs)	FLA60-U	61W	120-277VAC	530mA	3000K	4000 /5000K	
LEDs	36	Product Dimensions	210x330x110mm 8.27"x12.99"x4.33"	FLB80-U	78W	120-277VAC	700mA	7247lm	8052lm	132
EPA(sq.ft.)	0.347	Carton Dimensions	305x415x160mm 12.01"x16.34"x6.3"	FLC80-U	78W	347-480VAC	700mA	8986lm	9984lm	128
								8986lm	9984lm	128





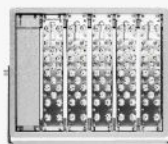
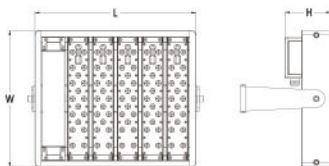
Model	FLA90-U/FLB120-U/ FLC120-U	Net Weight	5.92kg(13.05lbs)	Model No.	System Power	Voltage	Drive Current	Luminous Flux		Efficacy (lm/W)
LED Modules	3	Gross Weight	6.64kg(14.57lbs)	FLA90-U	87W	120-277VAC	530mA	3000K	4000 /5000K	
LEDs	54	Product Dimensions	270x330x110mm 10.63"x12.99"x4.33"	FLB120-U	118W	120-277VAC	700mA	10571lm	11745lm	135
EPA(sq.ft.)	0.372	Carton Dimensions	365x415x160mm 14.37"x16.34"x6.30"	FLC120-U	118W	347-480VAC	700mA	13806lm	15340lm	130
								13806lm	15340lm	130





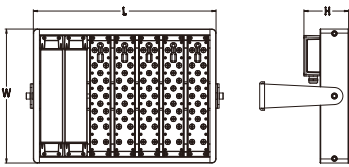
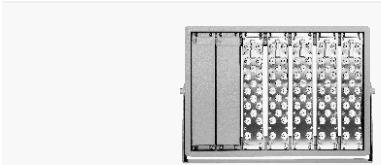
Model	FLA120-U/FLB160-U/ FLC160-U	Net Weight	7.16kg(15.79lbs)
LED Modules	4	Gross Weight	7.99kg(17.61lbs)
LEDs	72	Product Dimensions	330x330x110mm 12.99"x12.99"x4.33"
EPA(sq.ft.)	0.404	Carton Dimensions	425x415x160mm 16.73"x16.34"x6.30"

Model No.	System Power	Voltage	Drive Current	Luminous Flux		Efficacy (lm/W)
				3000K	4000 /5000K	
FLA120-U	110W	120-277VAC	530mA	13365lm	14850lm	135
FLB160-U	156W	120-277VAC	700mA	18252lm	20280lm	130
FLC160-U	156W	347-480VAC	700mA	18252lm	20280lm	130

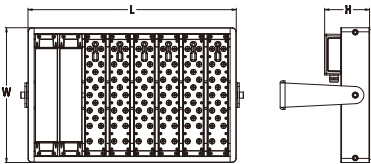
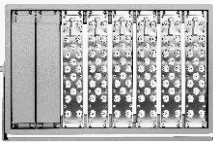
Model	FLA150-U	Net Weight	8.13kg(17.92lbs)
LED Modules	5	Gross Weight	9.11kg(20.08lbs)
LEDs	90	Product Dimensions	390x330x110mm 15.35"x12.99"x4.33"
EPA(sq.ft.)	0.437	Carton Dimensions	485x415x160mm 19.09"x16.34"x6.30"

Model No.	System Power	Voltage	Drive Current	Luminous Flux		Efficacy (lm/W)
				3000K	4000 /5000K	
FLA150-U	141W	120-277VAC	530mA	17132lm	19035lm	135



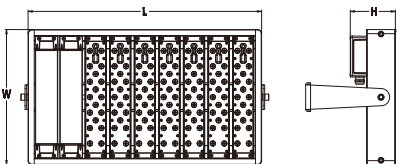
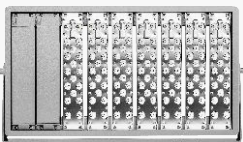
Model	FLB200-U/FLC200-U	Net Weight	9.06kg(19.97lbs)
LED Modules	5	Gross Weight	9.92kg(21.87lbs)
LEDs	90	Product Dimensions	450x330x110mm 17.72"x12.99"x4.33"
EPA(sq.ft.)	0.473	Carton Dimensions	545x415x160mm 21.46"x16.34"x6.30"

Model No.	System Power	Voltage	Drive Current	Luminous Flux		Efficacy (lm/W)
				3000K	4000 /5000K	
FLB200-U	196W	120-277VAC	700mA	22932lm	25480lm	130
FLC200-U	196W	347-480VAC	700mA	22932lm	25480lm	130



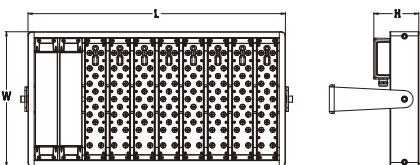
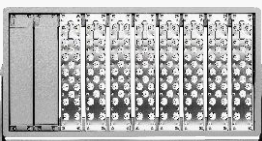
Model	FLA180-U/FLB240-U/FLC240-U	Net Weight	10.20kg(22.49lbs)
LED Modules	6	Gross Weight	11.21kg(24.71lbs)
LEDs	108	Product Dimensions	510x330x110mm 20.08"x12.99"x4.33"
EPA(sq.ft.)	0.509	Carton Dimensions	605x415x160mm 23.82"x16.34"x6.30"

Model No.	System Power	Voltage	Drive Current	Luminous Flux		Efficacy (lm/W)
				3000K	4000 /5000K	
FLA180-U	172W	120-277VAC	530mA	20898lm	23220lm	135
FLB240-U	234W	120-277VAC	700mA	27378lm	30420lm	130
FLC240-U	234W	347-480VAC	700mA	27378lm	30420lm	130



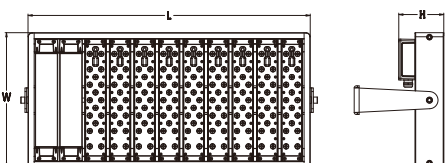
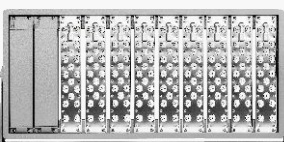
Model	FLA210-U/FLB280-U/FLC280-U	Net Weight	11.28kg(24.87lbs)
LED Modules	7	Gross Weight	12.98kg(28.61lbs)
LEDs	126	Product Dimensions	570x330x110mm 22.44"x12.99"x4.33"
EPA(sq.ft.)	0.548	Carton Dimensions	665x415x160mm 26.18"x16.34"x6.30"

Model No.	System Power	Voltage	Drive Current	Luminous Flux		Efficacy (lm/W)
				3000K	4000 /5000K	
FLA210-U	202W	120-277VAC	530mA	24543lm	27270lm	135
FLB280-U	274W	120-277VAC	700mA	32058m	35620lm	130
FLC280-U	274W	347-480VAC	700mA	32058lm	35620lm	130



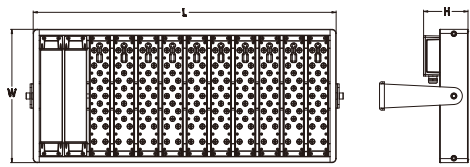
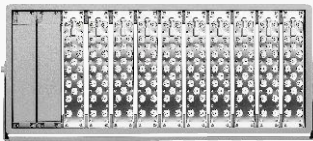
Model	FLA240-U/FLB320-U/FLC320-U	Net Weight	12.18kg(26.85lbs)
LED Modules	8	Gross Weight	13.40kg(29.54bs)
LEDs	144	Product Dimensions	630x330x110mm 24.80"x12.99"x4.33"
EPA(sq.ft.)	0.588	Carton Dimensions	725x415x160mm 28.54"x16.34"x6.30"

Model No.	System Power	Voltage	Drive Current	Luminous Flux		Efficacy (lm/W)
				3000K	4000 /5000K	
FLA240-U	228W	120-277VAC	530mA	27702lm	30780lm	135
FLB320-U	310W	120-277VAC	700mA	36270m	40300lm	130
FLC320-U	310W	347-480VAC	700mA	36270lm	40300lm	130



Model	FLA270-U	Net Weight	13.15kg(28.99lbs)
LED Modules	9	Gross Weight	14.48kg(31.92lbs)
LEDs	162	Product Dimensions	690x330x110mm 27.17"x12.99"x4.33"
EPA(sq.ft.)	0.629	Carton Dimensions	785x415x160mm 30.91"x16.34"x6.30"

Model No.	System Power	Voltage	Drive Current	Luminous Flux		Efficacy (lm/W)
				3000K	4000 /5000K	
FLA270-U	256W	120-277VAC	530mA	31104lm	34560lm	135



Model	FLA300-U	Net Weight	14.11kg(31.11lbs)
LED Modules	10	Gross Weight	15.56kg(34.30lbs)
LEDs	180	Product Dimensions	750x330x110mm 29.53"x12.99"x4.33"
EPA(sq.ft.)	0.668	Carton Dimensions	845x415x160mm 33.27"x16.34"x6.30"

Model No.	System Power	Voltage	Drive Current	Luminous Flux		Efficacy (lm/W)
				3000K	4000 /5000K	
FLA300-U	283W	120-277VAC	530mA	34385lm	38205lm	135

CUSTOMIZED
SOLUTIONS



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



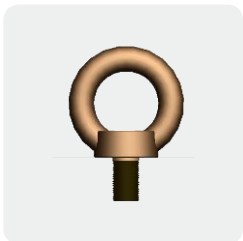
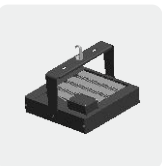
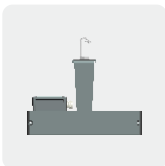
02.Motion Sensor



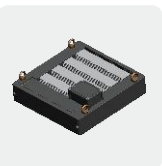
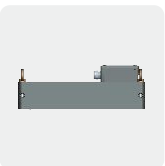
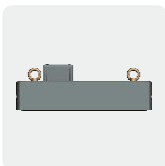
03.G3/4 pendant Rod+Ceiling Plate



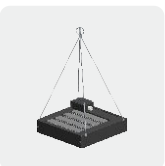
04.Suspension Hook



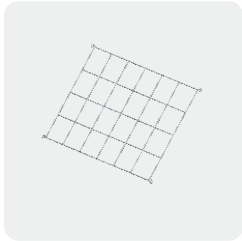
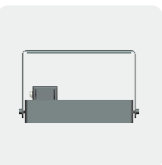
05.Suspension Rings



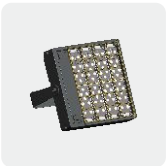
06.Steel Suspension Cable



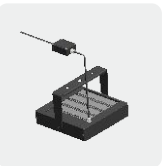
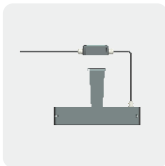
07.Mini Photocell



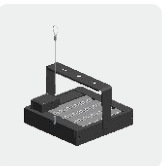
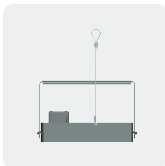
08.Anti-vandal Grill



09.Separate Junction Box



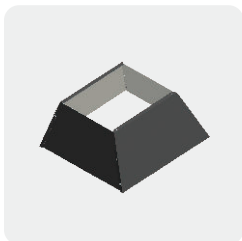
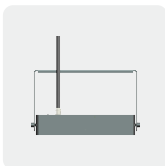
10.Safety Cable



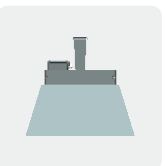
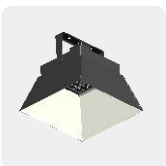
11.Garden Light



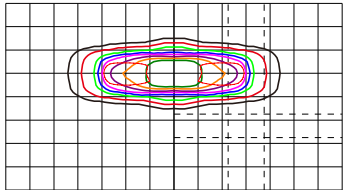
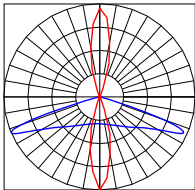
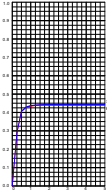
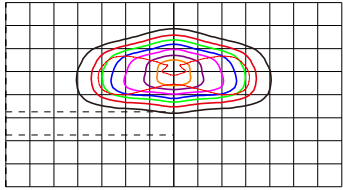
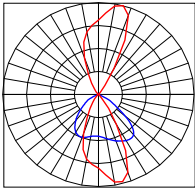
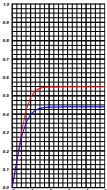
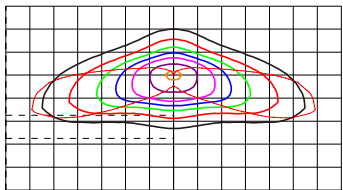
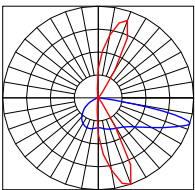
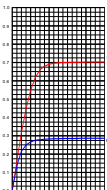
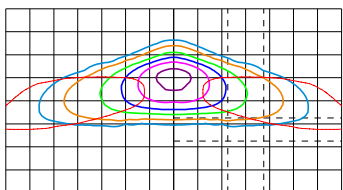
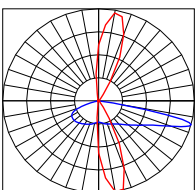
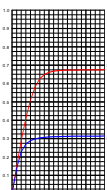
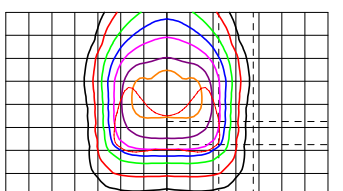
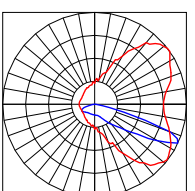
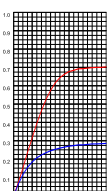
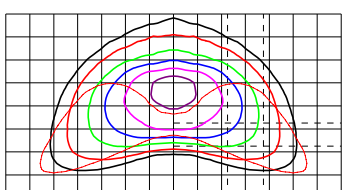
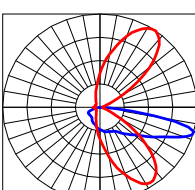
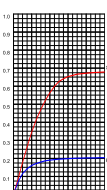
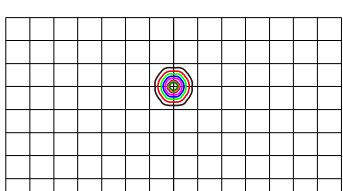
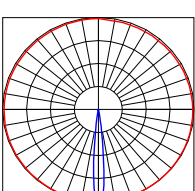
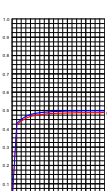
12.No Junction Box

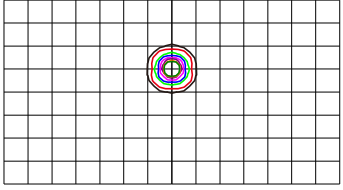
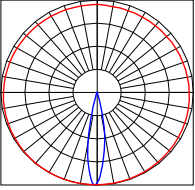
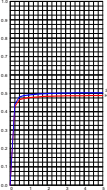
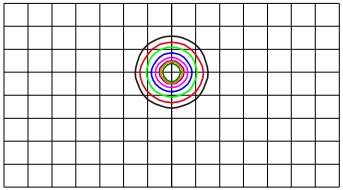
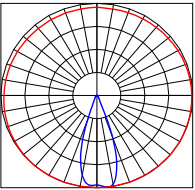
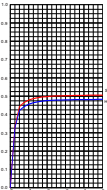
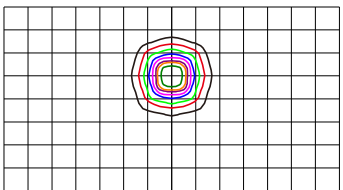
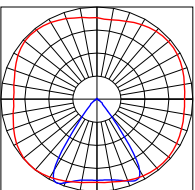
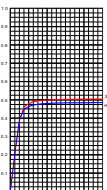
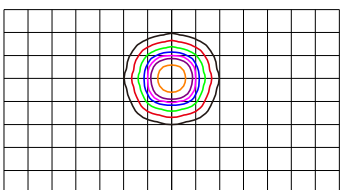
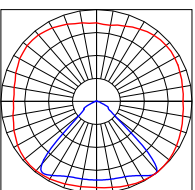
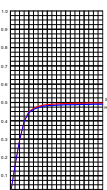
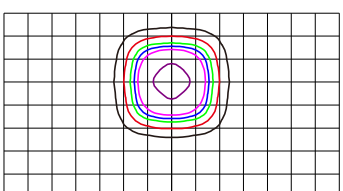
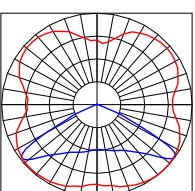
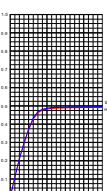
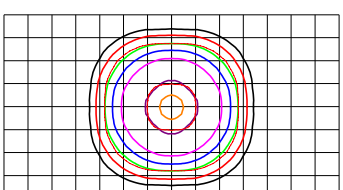
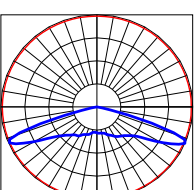
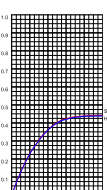
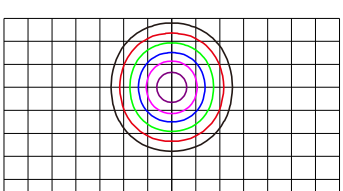
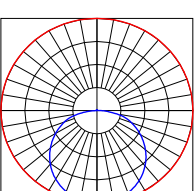
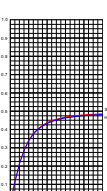


13.Light Shielding



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		