

**200+** Patent Certificates  
**\$1,000,000+** Annual Energy Saving  
**20,000+** Projects Successfully Installed



# OT Series LED Area Light

Shoebox / Parking lot lighting  
Power: 75W - 420W

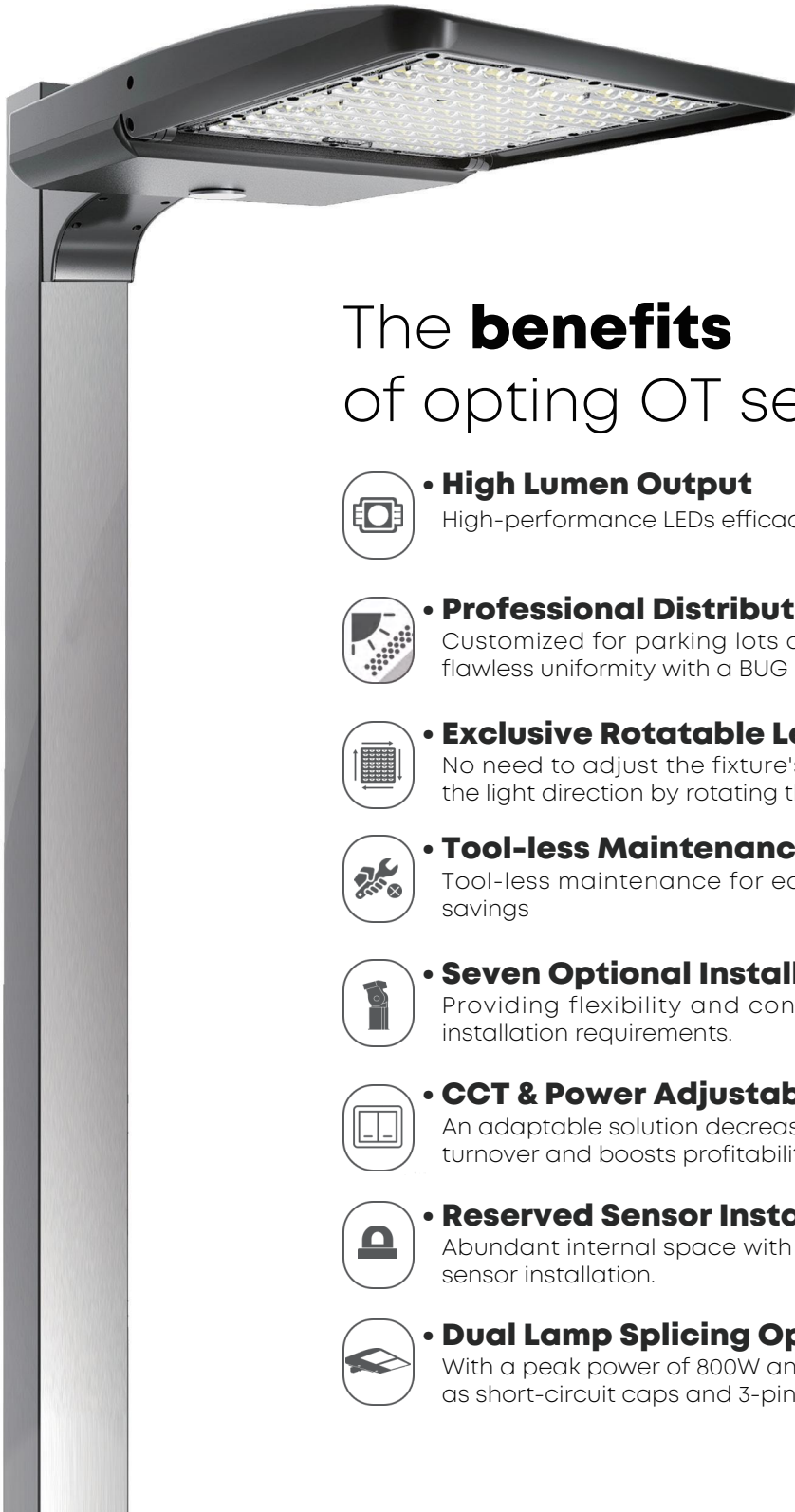


Innovative & Tailored  
Lighting Solutions for **Success**  
[www.aokledlight.com](http://www.aokledlight.com)









# Features of **OT** Series



For others & details please request



## The **benefits** of opting OT series

-  • **High Lumen Output**  
High-performance LEDs efficacy up to 175lm/W,
-  • **Professional Distribution Options**  
Customized for parking lots and tennis courts, ensuring flawless uniformity with a BUG rating of 0.
-  • **Exclusive Rotatable Lens design**  
No need to adjust the fixture's position; you can change the light direction by rotating the lens.
-  • **Tool-less Maintenance**  
Tool-less maintenance for easy maintenance and cost savings
-  • **Seven Optional Installation Brackets**  
Providing flexibility and convenience to meet various installation requirements.
-  • **CCT & Power Adjustable Optional**  
An adaptable solution decreases the SKUs, enhances turnover and boosts profitability.
-  • **Reserved Sensor Installation Positions**  
Abundant internal space with reserved locations for easy sensor installation.
-  • **Dual Lamp Splicing Option Available**  
With a peak power of 800W and optional accessories such as short-circuit caps and 3-pin/7-pin smart control bases.



### WARRANTY

5 Year Limited Warranty,  
10 Year Preferred Warranty.  
Please consult with our sales for detailed agreement.

- It features a lens that is precision engineered using optical grade Mitsubishi PMMA for maximum light intensity..
- A variety of light distributions including Type III, Type IV, and Type V, ensuring precise photometrics for the right project.
- A buckle design and tool-free maintenance, making it easy to maintain. The top cover is reserved for a photocell sensor, and the bottom is reserved for an occupancy or PIR sensor with a waterproof seal.
- Delivers improved visual comfort by lower glare and providing a wider smoother and more uniform light output. BUG=0.
- Available in 3000K, 4000K, 5000K, 5700K, 6500K adjustable CCT, switch from warm white to cool white.
- Use Lumileds or Seoul LED sources and offer efficacy options of 140lm/W, 170lm/W, or 175lm/W. This provides a higher lumen output and a precision light pattern, which ensures more energy savings.
- Minimum CRI of 70, 80, and 90 optional.
- Cutoff classification: Cut-off, no up light pollution.
- With 7 different mounting brackets, it makes installation to any style of pole quicker and easier. This simplifies the installation job and saves time.
- It offers the option of customized pole adapters for special installations. This allows for greater flexibility and customization during the installation process.

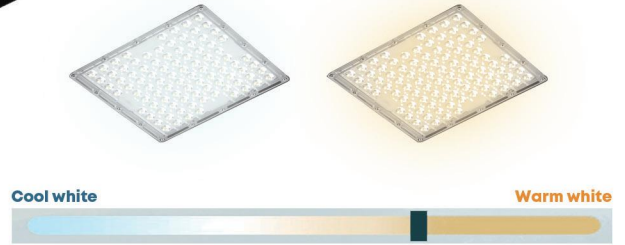


Safety rope included as standard for 300W-420W models; for models below 300W, please order separately.

UP TO <b>175</b> lm/W	<b>IP66</b> <b>IK10</b>	<b>CRI</b> Ra70/80/90	 <b>DIM</b>	<b>ULR</b> <b>=0%</b>	<b>L90B10</b> <b>&gt;100,000HRS</b> <b>@ 25°C</b>
 <b>TOOL-LESS</b> MAINTENANCE	3000K 4000K 5000K 5700K 6500K	<b>100-277VAC</b> OR <b>277-480VAC</b> 50 / 60HZ	WORKING TEMPERATURE ENVIRONMENT <b>-40°C~50°C</b> (-40°F~122°F)	<b>THD</b> <b>&lt;18%</b>	

Note: Normal Voltage=100-277VAC, High Voltage=277-480VAC, please evaluate before choosing. For the power supply in the United States and Canada, in case the input voltage fluctuation  $\geq 240V$  the High Voltage solution is highly recommended for performance stability. Improper selection will cause damage to the driver or the light.

# Explore the **Flexibility**

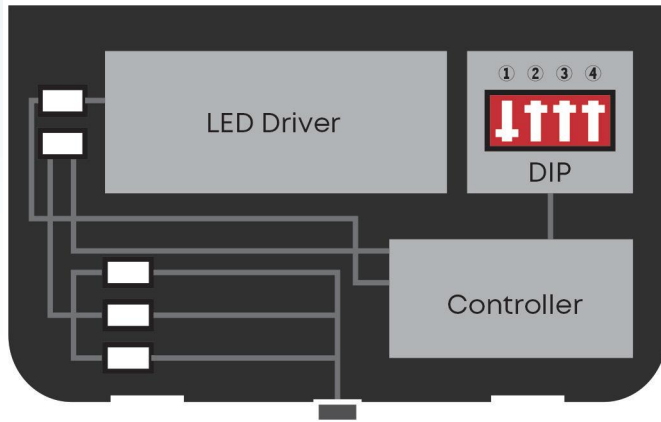
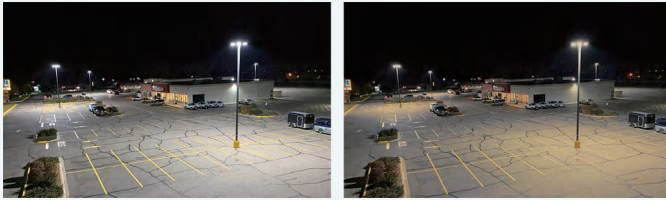


## why should be **flexible with *Light***

- A colder white light optimizes performance while a warmer one is more favorable to people and animal natural cycles. What if the light can be flexible? The OT **Dual LEDs CCT adjustable solution** offers you the choice to use the right color temperature at any time. Whether it relies on preprogrammed scenarios, uses sensors or a mix of all, the CCT adjustable solution offers you the flexibility to provide the right level with the right color temperature at the right place and the right time.
- With using two types of LEDs (e.a. 3000K and 5000K), you can select one of the two color temperatures or mix both at various levels (dimming) to create a palette of color temperatures.
- As lenses cover the complete LED, the light distribution remains unchanged whatever you select.







**Flexible** to match the environment:

The **Dual LEDs CCT adjustable solution** allows you to easily respond to your color temperature needs and quickly adjust the range of the lamp without much effort.

Dial 1 - switch off, fixture in 5700K;

Dial 2 - 5000K;

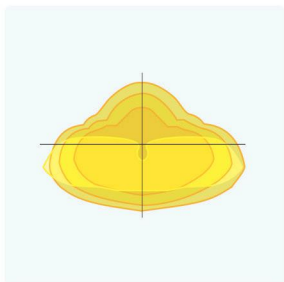
Dial 3 - 4000K;

Dial 4 - 3000K;

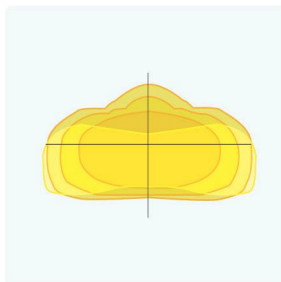
## Photometric **Design**

Accurate light distribution design, **Flexible** to match the project requirements:

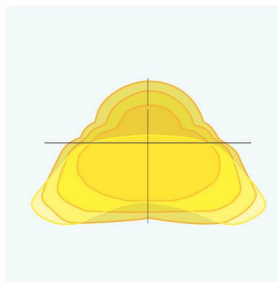
**T301(85\*145°)**



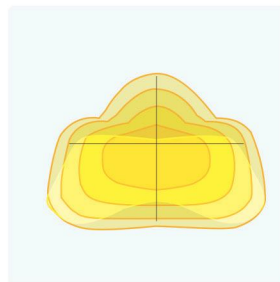
**T302(80\*155°)**



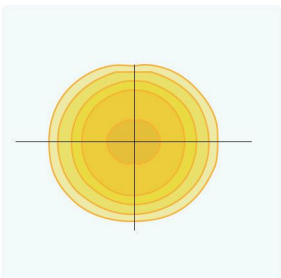
**T401(70\*125°)**



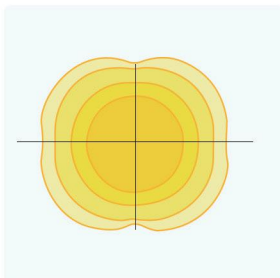
**T402(90\*150°)**



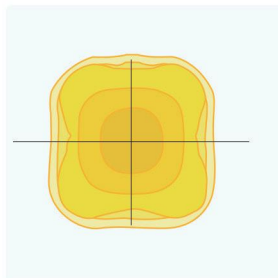
**T501(150°)**



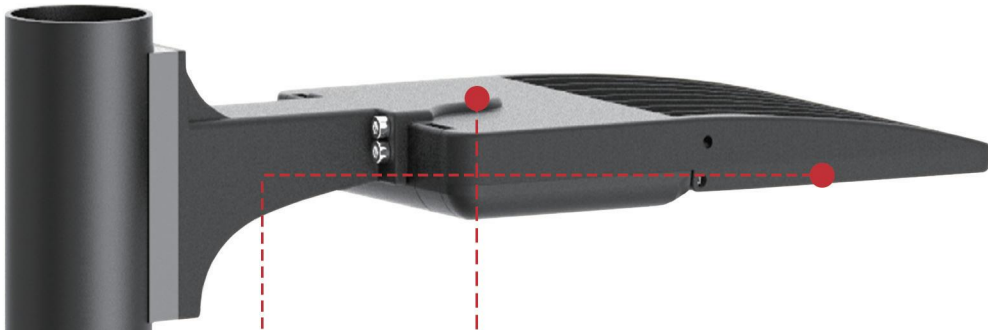
**T502(160°)**



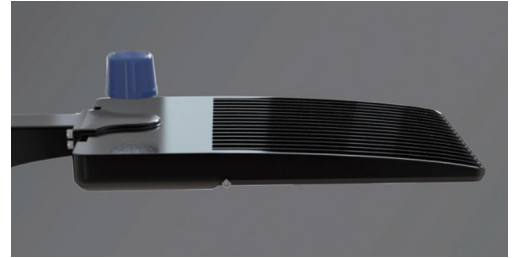
**T512(150°)**



# Explore the **Flexibility**



- Buckle design. Top cover space reserved for photocell sensor and bottom reserved for occupancy or PIR sensor with waterproof seal. **Flexible** for future installation.



- **Flexible** design with 90° field-rotatable optics, simply rotate the lens and get light distribution in right direction in an instant.

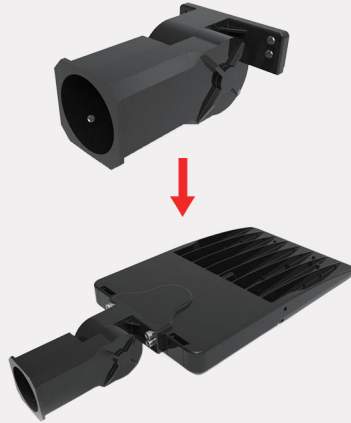


Note: please ensure that the lens is not mounted facing the sky to prevent water from entering the lens area.

• Up to 7 installation methods (brackets) can be suitable for different installation scenarios, quickly adapt to the needs of the project. Convenient and **Flexible**.



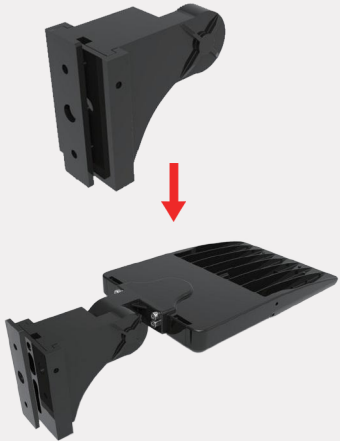
Type A  
Slipfitter (Φ40mm)



Type A  
Slipfitter (Φ60mm)



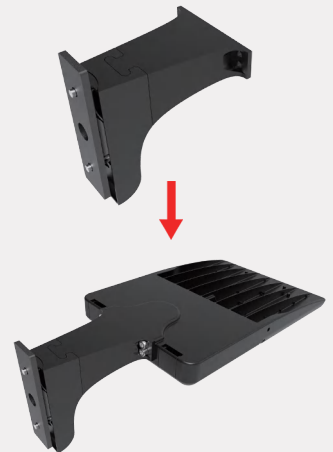
Type A  
Slipfitter (Φ76mm)



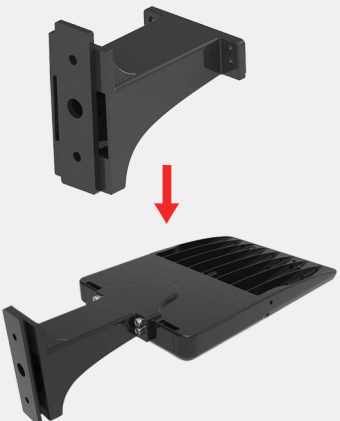
Type B  
Adjustable Arm Mount



Type C  
Yoke Mount



Type D  
Slide & Lock Mount



Type E  
Square Pole Mount



Type F  
Round Pole Mount



Type G  
Trunnion Mount

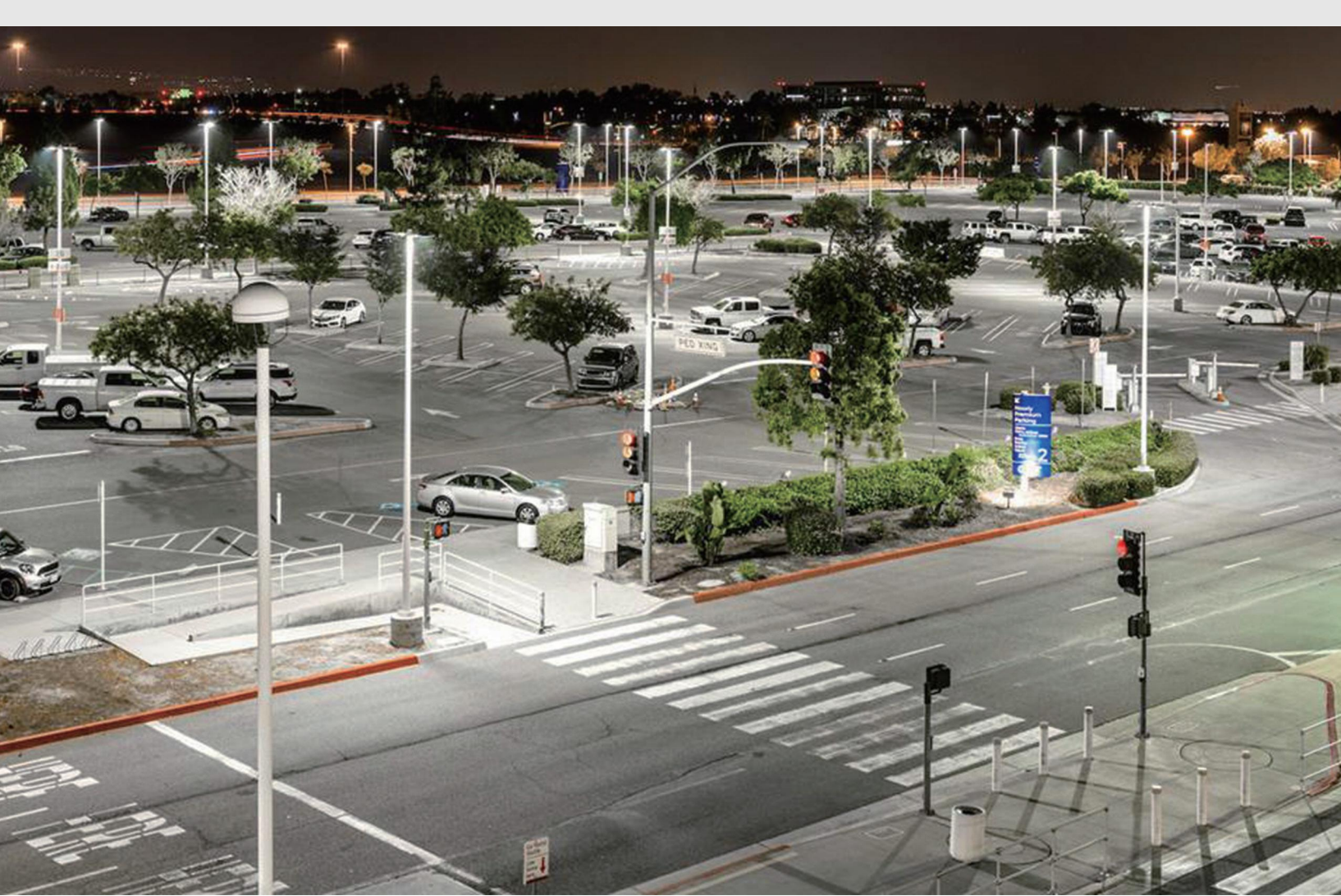


# Application Reference

- Parking lot
- Loading bay
- Street
- Tennis court







Parking lot & Area



Residential & Area



Riverside & Jogging track



Leisure or Training fields



Leisure or Training fields



# Parameter Table

Electrical Data									
Model	AOK-75Wot	AOK-115Wot	AOK-145Wot	AOK-180Wot	AOK-200Wot	AOK-230Wot	AOK-300Wot	AOK-420Wot	
Power(W)	75 W	115 W	145 W	180 W	200 W	230 W	300 W	420 W	
Input Voltage	Normal Voltage=100-277VAC, High Voltage=277-480VAC, please read *Note-1 before choosing.								
THD	7.50%	7.00%	6.50%	7.20%	7.80%	7.70%	3.90%	7.70%	
PF	0.98	0.98	0.99	0.98	0.99	0.99	0.99	0.99	
Operating Temperature	-40°C to 50°C (-40 °F to 122 °F)								
Control Option	DALI, 1-10V/ PWM / timer dimming, Nema, Zhaga, Presence detection sensor. Dim-to-Off with standby power <= 0.5W. DIP switch.								
Driver	Meanwell / Inventronics/Sosen								
Surge Protection	10kV / 20kV optional								
Photometric Data									
Efficacy(lm/W)- (LUMILEDS,Std. Dev. ±5%)@4000K Ra70	T301(85°*145°)	150 lm/W	144 lm/W	138 lm/W	142 lm/W	140 lm/W	135 lm/W	126 lm/W	-
	T302(80°*155°)	168 lm/W	163 lm/W	158 lm/W	168 lm/W	164 lm/W	160 lm/W	155 lm/W	146 lm/W
	T401(70°*125°)	145 lm/W	140 lm/W	133 lm/W	138 lm/W	136 lm/W	131 lm/W	123 lm/W	-
	T402(90°*150°)	166 lm/W	161 lm/W	156 lm/W	166 lm/W	162 lm/W	158 lm/W	153 lm/W	144 lm/W
	T501(150°)	150 lm/W	144 lm/W	138 lm/W	142 lm/W	140 lm/W	135 lm/W	126 lm/W	-
	T502(160°)	169 lm/W	164 lm/W	159 lm/W	169 lm/W	165 lm/W	161 lm/W	156 lm/W	147 lm/W
Efficacy(lm/W) (Seoul,Std. Dev. ±5%)@4000K Ra70	T302(80°*155°)	171 lm/W	166 lm/W	161 lm/W	171 lm/W	167 lm/W	163 lm/W	158 lm/W	149 lm/W
	T402(90°*150°)	169 lm/W	164 lm/W	159 lm/W	169 lm/W	165 lm/W	161 lm/W	156 lm/W	147 lm/W
	T502(160°)	172 lm/W	167 lm/W	162 lm/W	172 lm/W	168 lm/W	164 lm/W	159 lm/W	150 lm/W
Luminous Flux (lm) (LUMILEDS,Std. Dev. ±5%)@4000K Ra70	T301(85°*145°)	11250 lm	16560 lm	20010 lm	25648 lm	28058 lm	31123 lm	37868 lm	-
	T302(80°*155°)	12600 lm	18745 lm	22910 lm	30240 lm	32800 lm	36908 lm	46500 lm	61320 lm
	T401(70°*125°)	10875 lm	16100 lm	19285 lm	24840 lm	27200 lm	30130 lm	36900 lm	-
	T402(90°*150°)	12450 lm	18515 lm	22620 lm	29880 lm	32400 lm	36340 lm	45900 lm	60480 lm
	T501(150°)	11250 lm	16560 lm	20010 lm	25560 lm	27916 lm	31050 lm	37800 lm	-
	T502(160°)	12708 lm	18860 lm	23055 lm	30420 lm	33000 lm	37030 lm	46800 lm	61740 lm
Luminous Flux (lm) (Seoul,Std. Dev. ±5%)@4000K Ra70	T302(80°*155°)	12819 lm	19090 lm	23345 lm	30780 lm	33400 lm	37490 lm	47400 lm	62580 lm
	T402(90°*150°)	12675 lm	18860 lm	23055 lm	30420 lm	33000 lm	37030 lm	46800 lm	61740 lm
	T502(160°)	12900 lm	19205 lm	23490 lm	30960 lm	33600 lm	37720 lm	47700 lm	63000 lm
ULOR	= 0%, @ Luminaire inclination 0°								
CCT	3000K, 4000K, 5000K, 5700K, 6500K								
CRI	70Ra, 80Ra, 90Ra optional								
Beam Angle	T301(85°*145°)/T302(80°*155°)/T401(70°*125°)/T402(90°*150°)/T501(150°)/T502(160°)/T512(150°)								
LED Manufacturer	LUMILEDS/Seoul								
LED Model	Lumileds 3030/Lumileds 5050/Seoul 5050								
Working Current of Single LED (mA)	T301(85°*145°)	0.065	0.101	0.127(0.12)	0.08	0.088	0.099	0.128	
	T302(80°*155°)	0.033	0.051	0.064	0.044	0.049	0.055	0.071	0.099
	T401(70°*125°)	0.065	0.101	0.127 (0.12)	0.08	0.088	0.099	0.128	
	T402(90°*150°)	0.033	0.051	0.064	0.044	0.049	0.055	0.071	0.099
	T501(150°)	0.065	0.101	0.127 (0.12)	0.08	0.088	0.099	0.128	
	T502(160°)	0.033	0.051	0.064	0.044	0.049	0.055	0.071	0.099
Lens	Polycarbonate (Better impact resistance than glass)								
Mechanical Data									
IP/IK	IP66/IK10, according to standard EN 60529 and EN 62262								
Vibration Resistance	3G, conform to standard IEC 68-2-6.								
SCx	Front: 0.113976m²; Front-side: 0.0152m²; Side: 0.02997m²			Front: 0.179268m²; Front-side: 0.0196 m²; Side: 0.03342 m²			Front: 0.201256m²; Front-side: 0.0269 m²; Side: 0.04686 m²		
Housing/Materials	Heavy-duty die-cast aluminum (EN AC-46100)								
Surface Treatment	Anti-UV thermosetting polyester / 80 micron epoxy primer + Anti-UV thermosetting polyester (for extremely corrosive environments).								
Painting	Black, Bronze, Custom request								
Cable	Pre-wired with a 70 cm cable (Other lengths on request)								
Mounting	Slip fitter(Φ40/60/76mm)/Arm mount/Yoke mount/Slide & lock/Square pole/Round pole/Trunnion								

\* Note-1: For the power supply in the United States and Canada, in case the input voltage fluctuation ≥240V the High Voltage solution is highly recommended for performance stability. Improper selection will cause damage to the driver or the light.

Others								
Model	AOK-75WoT	AOK-115WoT	AOK-145WoT	AOK-180WoT	AOK-200WoT	AOK-230WoT	AOK-300WoT	AOK-420WoT
Lifespan	L90B10 > 100000hrs, @Ta 25°C							
Warranty	5 years in standard, 10 years optional							
Certification	UL/cUL/FCC/CE/ENEC/SAA/RoHS, For other certificates please request							
Product Size	507*327*185mm/ 20.0*12.9*7.3 in	507*327*185mm/ 20.0*12.9*7.3 in	507*327*185mm/ 20.0*12.9*7.3 in	600*410*185mm/ 23.6*16.1*7.3 in	600*410*185mm/ 23.6*16.1*7.3 in	600*410*185mm/ 23.6*16.1*7.3 in	650*423*380mm/ 25.6*16.7*15.0 in	650*440*390mm/ 25.6*16.7*15.4 in
Net Weight(±10%)	3.7kg / 8.2 lbs	4.0kg / 8.8 lbs	4.0kg / 8.8 lbs	5.6kg / 12.3 lbs	5.6kg / 12.3 lbs	5.6kg / 12.3 lbs	8.9kg / 19.6 lbs	9.6kg / 21.16 lbs
Recommended Installation Height	General 4-12m, based on actual project requirements							
Application Field	Suitable for area lighting such as parking lot, loading bay and street; Tennis court							
<b>Important Note!</b>	<b>The provided information is solely for reference; the official measurement report holds higher authority.</b>							

## Dual LEDs CCT adjustable solution specification

Watt(W)	LED Chips	CCT	Current Output(mA)	Power(W)	Efficacy		
					T302	T402	T502
75	C46+W46	3000	515	74.5	148	149	152
		4000		72.8	161	161	165
		5000		74.16	158	158	162
		5700		75.15	156	156	160
115	C46+W46	3000	790	113.8	144	144	148
		4000		109.3	161	161	165
		5000		112.2	156	156	159
		5700		113.9	151	151	155
145	C46+W46	3000	985	144.4	138	138	141
		4000		137.4	157	158	161
		5000		141.7	151	150	154
		5700		144.1	146	145	148
180	C84+W84	3000	1045	178.4	150	153	155
		4000		172.6	166	169	171
		5000		177.1	161	165	166
		5700		179.0	157	161	163
200	C84+W84	3000	1155	199.2	147	151	152
		4000		191.2	164	169	170
		5000		196.4	159	163	164
		5700		199.1	154	158	160
230	C84+W84	3000	1315	228.5	144	147	149
		4000		218.6	163	166	168
		5000		225.1	158	161	161
		5700		228.5	152	155	157

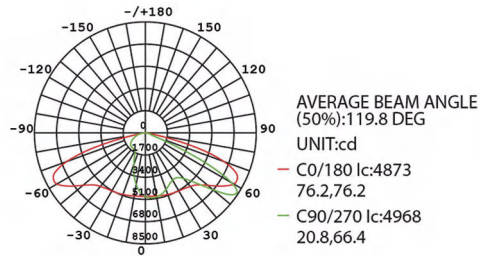
## Ordering Information

AOK								
WATTS	VOLTAGE	LED CHIPS	TYPE OF SENSOR	CCT&CRI	DISTRIBUTION	MOUNT	HOUSING	OPTIONS
75WoT	NV=100-277V	L3=LUMILED 3030	00=Without Sensor	3070=3000K 70CRI	T301 (85°145°)	A=Slip Fitter	BK=Black	SPD 10KV
115WoT	HV=277-480V	L5=LUMILED 5050	SN=Motion Sensor	4070=4000K 70CRI	T302 (80°155°)	B=Adjustable Arm	BZ=Bronze	SPD 20KV
145WoT		S5=SEOUL 5050	PH=Photocell	5070=5000K 70CRI	T401 (70°125°)	C=Yoke Mount	WH=White	DIP Switch
180WoT		W3=SEOUL W3	DV=Dimmable	5770=5700K 70CRI	T402 (90°150°)	D= Slide and Lock	SI=Silver	
200WoT				6570=6500K 70CRI	T501 (150°)	E= Square Pole	RD=Red	
230WoT				3080=3000K 80CRI	T502 (160°)	F= Round Pole	BL=Blue	
300WoT				4080=4000K 80CRI	T512 (150°)	G= Trunnion Mount		
420WoT				5080=5000K 80CRI				
				5780=5700K 80CRI				
				6580=6500K 80CRI				

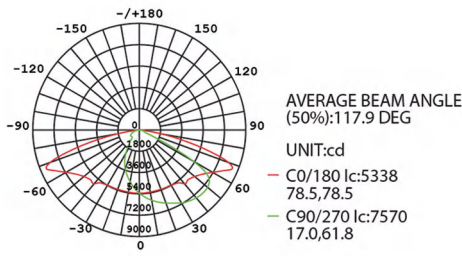


# Photometry

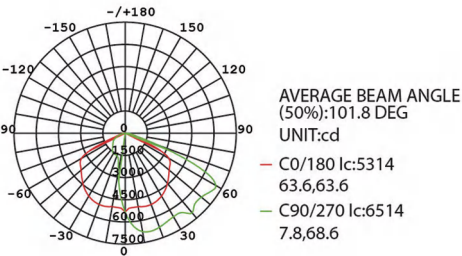
T301 (85\*145°)



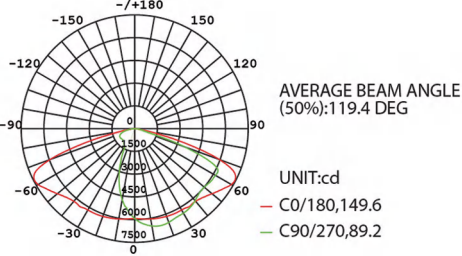
T302 (80\*155°)



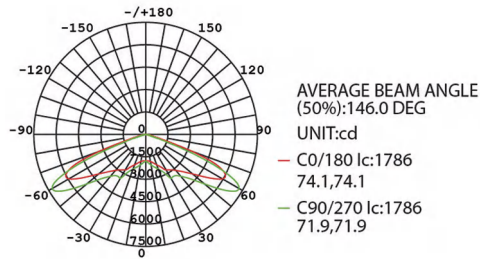
T401 (70\*125°)



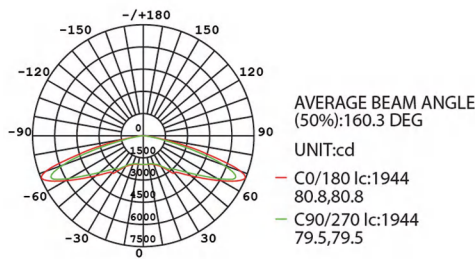
T402 (90\*150°)



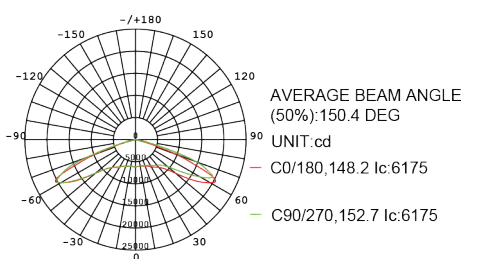
T501 (150°)



T502 (160°)

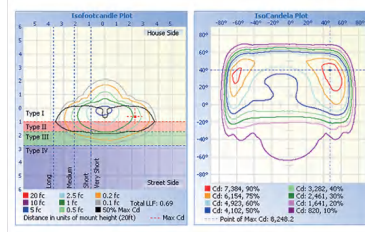


T512 (150°)

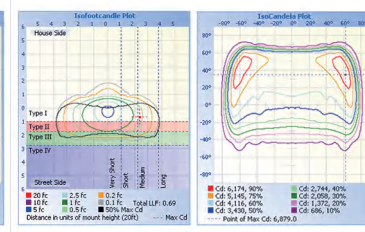


# Illuminance Diagram

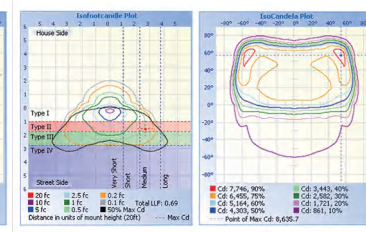
T301 (85\*145°)



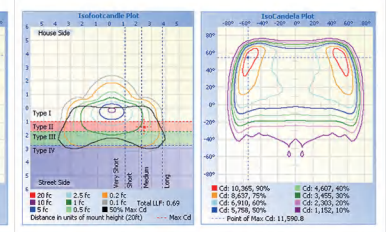
T302 (80\*155°)



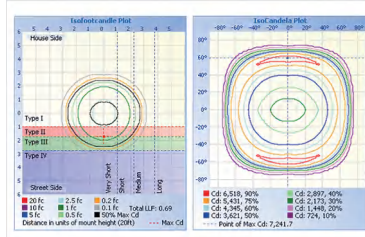
T401 (70\*125°)



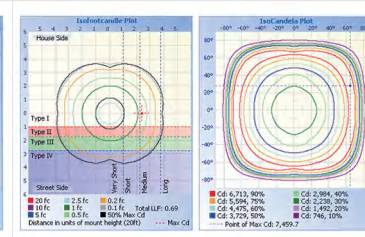
T402 (90\*150°)



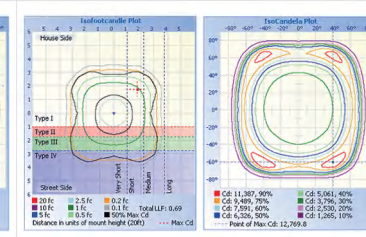
T501 (150°)



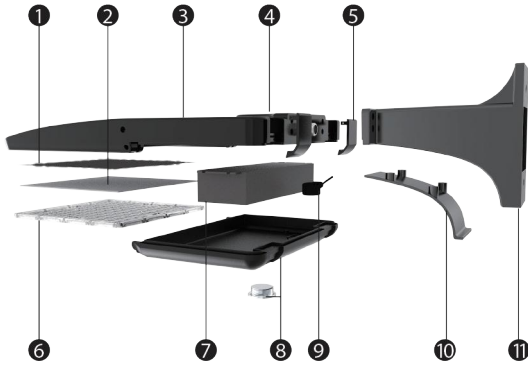
T502 (160°)



T512 (150°)



# Construction Features



1. Super efficient heat dissipation layer
2. Light source: PCB board with LEDs
3. Die casting aluminum unibody main housing, IP66
4. Space for 5/7 pin receptacle upgradable for photocell sensor and smart systems
5. Tool-less buckle to driver access panel
6. Optical grade rotatable PC lens Type III / IV / V
7. Top level 1-10V dimmable driver 100-277V / 277V-480V optional
8. Tool free driver access panel with space reserved for occupancy sensor covered by removable cap fits with Wattstopper FSP sensor
9. Surge protection device
10. Bracket access panel for wiring
11. Exchangable bracket fits round / square pole. Other brackets optional such as yoke, trunnion, etc

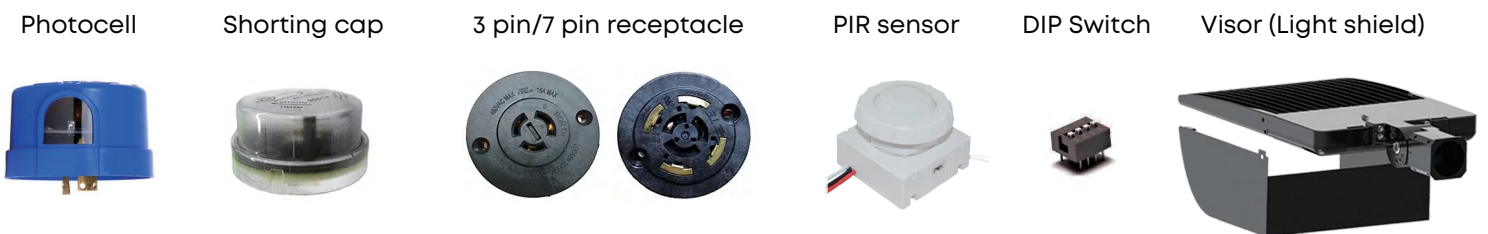
# Bracket

Type A Slipfitter	Type B Adjustable Arm Mount	Type C Yoke Mount	Type D Slide & Lock Mount	Type E Square Pole Mount	Type F Round Pole Mount	Type G Trunnion Mount
TypeA: 1.1kg	TypeB: 2.0kg	TypeC: 75W-145W 0.9kg 180-230W 1.0kg 300-420W 1.5kg	TypeD: 1.1kg	TypeE: 1.1kg	TypeF: 1.4kg	TypeG: 1.4kg

C- bracket standard material: SPCC.

The bracket may rust if used for an extended period, but it does not affect the lifespan of the light fixture itself. If there are specific requirements (whether it's regarding the material or the shape), please specify them before placing an order.

# Accessories



\*As the products are upgraded, the accessories may differ from those described in the pictures. Please consult with our sales team for updated details and order separately.



Quality, Honesty, Service and Innovation

# Innovative & Tailored Lighting Solutions for **Success**



WARRANTY

5 Year Limited Warranty,  
10 Year Preferred Warranty.

Please consult with our sales for detailed agreement.

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