



**IOT** LED AREA LIGHT  
PARKING LOT LIGHT

OVER YEARS   
**10** EXPERIENCE  
[www.aokledlight.com](http://www.aokledlight.com)



## > Features of OT Series

- Precision engineered lens made of optical grade Mitsubishi PMMA for maximum light intensity.
- Type III, Type IV, Type V distributions are available, precise photometric for the right project.
- Buckle design, tool-free maintenance. Top cover space reserved for photocell sensor and bottom reserved for occupancy or PIR sensor with 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.
- Lumileds or Seoul LED sources available. Efficacy 140lm/W and 170lm/W or 180lm/W optional, higher lumen output, precision light pattern ensure more energy saved.
- Minimum CRI of 70, 80, and 90 optional.
- Cutoff classification: Cut-off, no up light pollution.
- 7 different mounting brackets simplify your installation job; make installation to any style of pole quicker and easier.
- Customized pole adapters are available for special installation.



UP TO <b>180</b> lm/W	<b>CRI</b> 70/80/90	<b>DIM</b>	<b>TOOL FREE</b> MAINTENANCE	<b>ULR</b> =0	<b>L90B10</b> >52000hrs @ 25°C
	• 3000K • 4000K • 5000K • 5700K • 6500K	100-277V OR 347-480V 50/60HZ	Working Temperature Environment -40°C~50°C (-40°F~+122°F)	<b>IP66</b> <b>IK10</b>	<b>THD</b> <18%



be flexible with **Light** Dual LEDs CCT adjustable solution

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

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**AOK**<sup>®</sup>  
Quality, Honesty, Service and Innovation

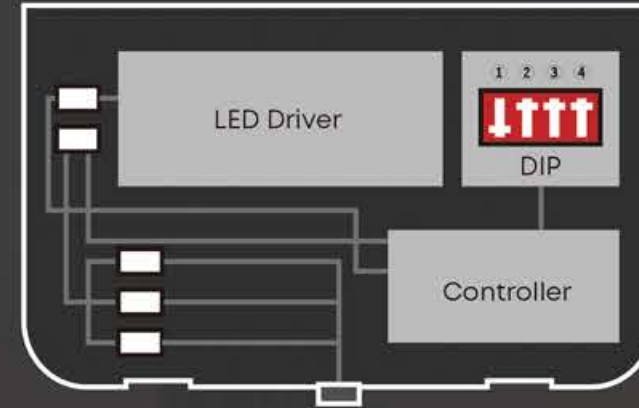


## > Explore the Flexibility



### 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.

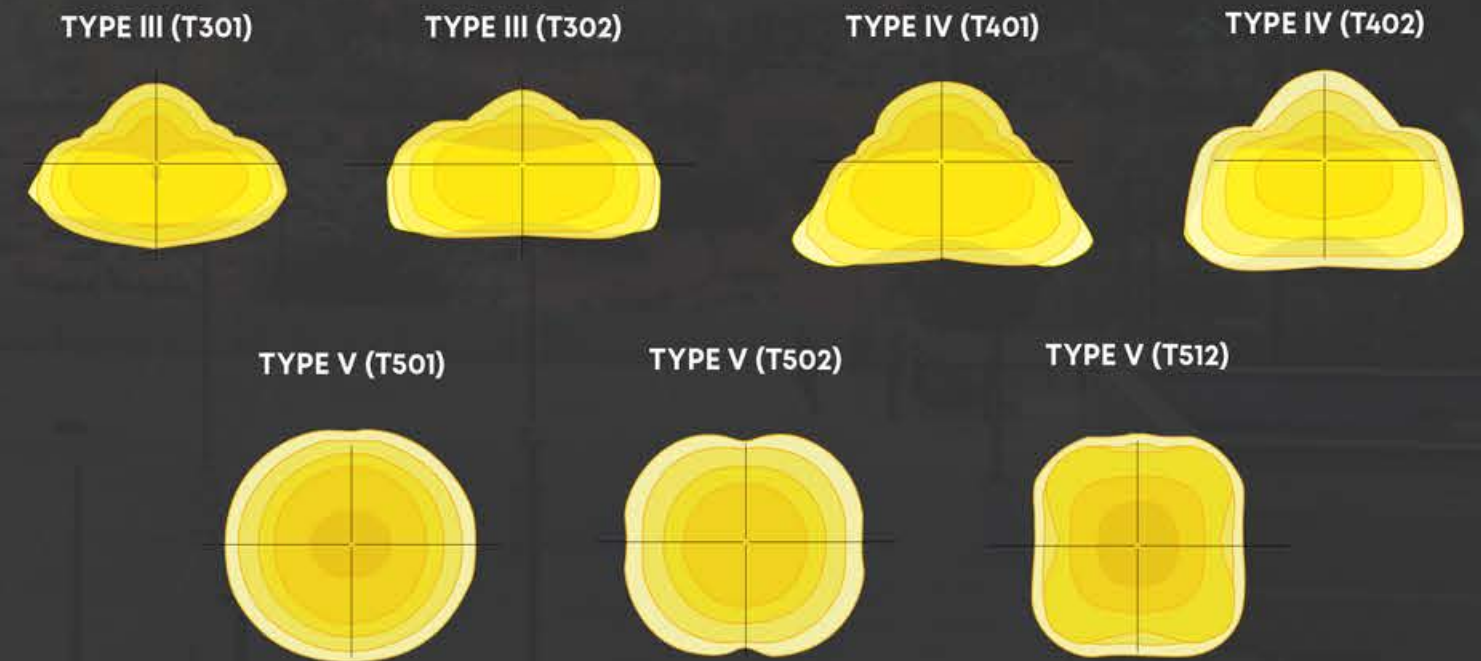


**Flexible** to match the environment:  
The **Dual LEDs CCT adjustable solution** allows you to easily respond to your color temperature needs and quickly adjust the range of the lamp without much effort.

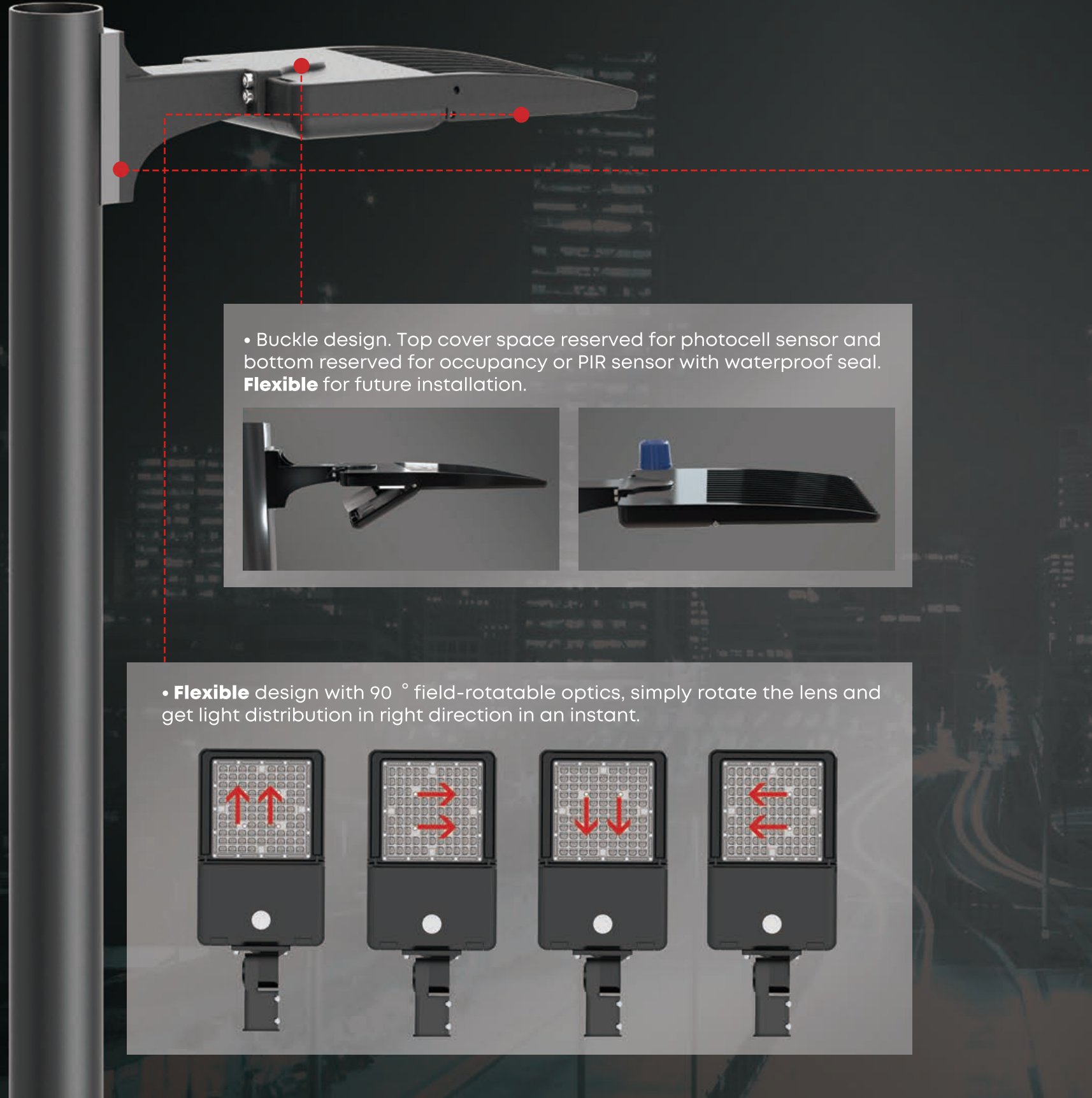
- Dial 1 - switch off, fixture in 5700K;
- Dial 2 - 5000K;
- Dial 3 - 4000K;
- Dial 4 - 3000K;

## > Photometrics

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



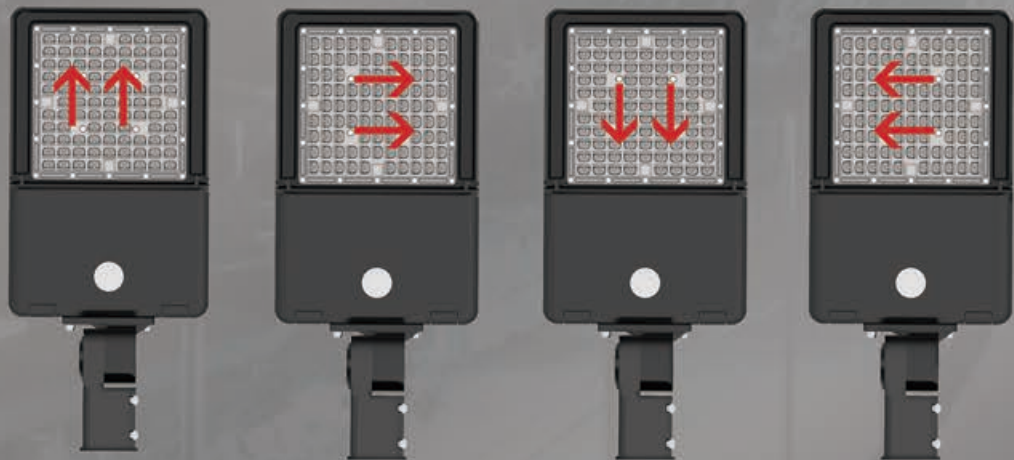
# > Explore the Flexibility



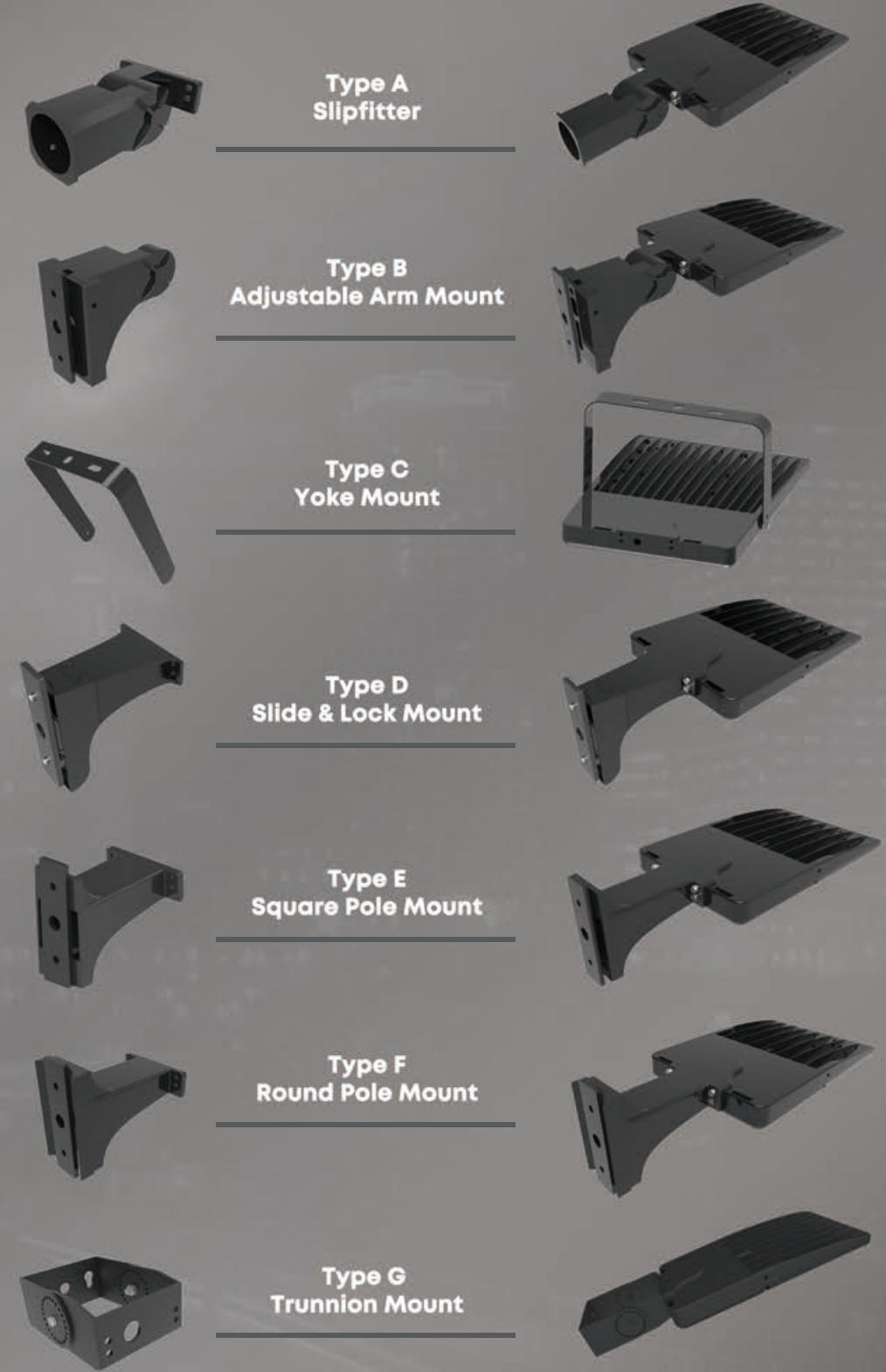
• Buckle design. Top cover space reserved for photocell sensor and bottom reserved for occupancy or PIR sensor with waterproof seal. **Flexible** for future installation.



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



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





# > Application Reference





# ► Application Reference





# 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	100-277VAC, 50/60Hz, 347/480VAC optional							
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. ±3%)	T301		T302		T401		T402	
	lm/W	lm/W	lm/W	lm/W	lm/W	lm/W	lm/W	lm/W
	144	131	113	142	140	135	126	
	166	159	152	169	163	160	153	142
	140	135	127	141	140	135	131	
	167	168	161	170	163	160	149	139
	146	135	129	143	140	133	130	
	169	162	153	173	168	157	155	145
	171	170	165	173	173	170	167	156
	170	169	165	176	175	170	160	150
	176	172	169	179	178	172	170	160
	10765	15066	16378	25648	28058	31123	37868	
Luminous flux (lm) (LUMILEDS)	12467	18253	22001	30435	32576	36908	45817	59512
	10501	15518	18401	25456	27930	31121	39157	
	12528	19327	23367	30683	32662	36911	44763	58579
	10984	15579	18656	25744	27916	30492	38953	
	12708	18577	22179	31142	33572	36052	46479	60867
Luminous flux (lm) (SOULE)	12819	19495	23976	31191	34599	39156	50167	65599
	12761	19491	23992	31766	35074	39185	48053	63203
	13176	19824	24540	32145	35672	39569	51087	67305
	ULOR = 0%, @ Luminaire inclination 0°							
	CCT 3000K, 4000K, 5000K, 5700K, 6500K							
CRI 70Ra, 80Ra, 90Ra optional								
Beam angle Type III/Type IV/Type V/T512								
LED Manufacturer LUMILEDS/Souel								
LED model Lumileds 3030/Lumileds 5050/Souel 5050								
Working current of single LED (mA)	0.065	0.101	0.127(0.12)	0.08	0.088	0.099	0.128	
	0.033	0.051	0.064	0.044	0.049	0.055	0.071	0.099
	0.065	0.101	0.127(0.12)	0.08	0.088	0.099	0.128	
	0.033	0.051	0.064	0.044	0.049	0.055	0.071	0.099
	0.065	0.101	0.127(0.12)	0.08	0.088	0.099	0.128	
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/Arm mount/Yoke mount/Slide & lock/Square pole/Round pole/Trunnion							

## Others

Model	AOK-75WoT	AOK-115WoT	AOK-145WoT	AOK-180WoT	AOK-200WoT	AOK-230WoT	AOK-300WoT	AOK-420WoT
Lifespan	L90B10 > 52000h, @Tq 25°C							
Warranty	5 years (Warranty extension up to 10 years on request)							
Certification	UL/cUL/FCC/CE/ENEC/SAA/RoHS, For other certificates please request							
Product size	507*327*185mm	507*327*185mm	507*327*185mm	600*410*185mm	600*410*185mm	600*410*185mm	650*423*380mm	650*440*390mm
Net weight(±10%)	3.7kg	4.0kg	4.0kg	5.6kg	5.6kg	5.6kg	8.9kg	9.6kg
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							

## 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
		3000		113.8	144	144	148
115	C46+W46	4000	790	109.3	161	161	165
		5000		112.2	156	156	159
		5700		113.9	151	151	155
		3000		144.4	138	138	141
		4000		137.4	157	158	161
145	C46+W46	5000	985	141.7	151	150	154
		5700		144.1	146	145	148
		3000		178.4	150	153	155
		4000		172.6	166	169	171
		5000		177.1	161	165	166
180	C84+W84	5700	1045	179.0	157	161	163
		3000		199.2	147	151	152
		4000		191.2	164	169	170
		5000		196.4	159	163	164
		5700		199.1	154	158	160
200	C84+W84	3000	1155	228.5	144	147	149
		4000		218.6	163	166	168
		5000		225.1	158	161	161
		5700		228.5	152	155	157
		3000		228.5	144	147	149

## 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	T3=TYPE 3	A=Slip Fitter	BK=Black	SPD 10KV	
115WoT	HV=347/480V	L5=LUMILED 5050	SN=Motion Sensor	4070=4000K 70CRI	T4=TYPE 4	B=Adjustable Arm	BZ=Bronze	SPD 20KV	
145WoT		S5=SEOUL 5050	PH=Photocell	5070=5000K 70CRI	T5=TYPE 5	C=Yoke Mount	WH=White	DIP Switch	
180WoT		W3=SEOUL W3	DV=Dimmable	5770=5700K 70CRI	T512=TYPE T5WQ	D= Slide and Lock	SG=Silver Gray		
200WoT				6570=6500K 70CRI		E= Square Ploe	RD=Rde		
230WoT				3080=3000K 80CRI		F= Round Ploe	BL=Blue		
300WoT				4080=4000K 80CRI		G= Trunnion Mount			
420WoT				5080=5000K 80CRI					
				5780=5700K 80CRI					
				6580=6500K 80CRI					

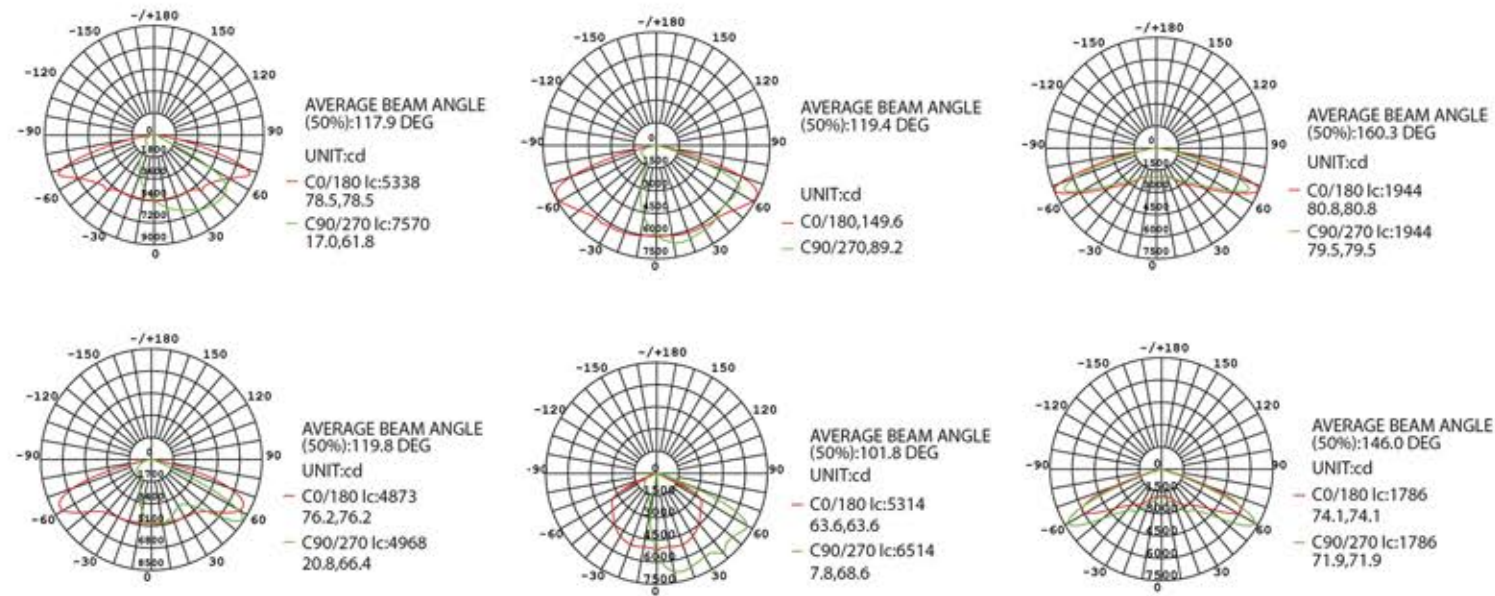
## OT Series Specification Sheet

\*Due to the constant improvements in product development, individual parameters might change. Please refer to our sales or R&D team for most up-to-date content as specifications are subject to change without notice.

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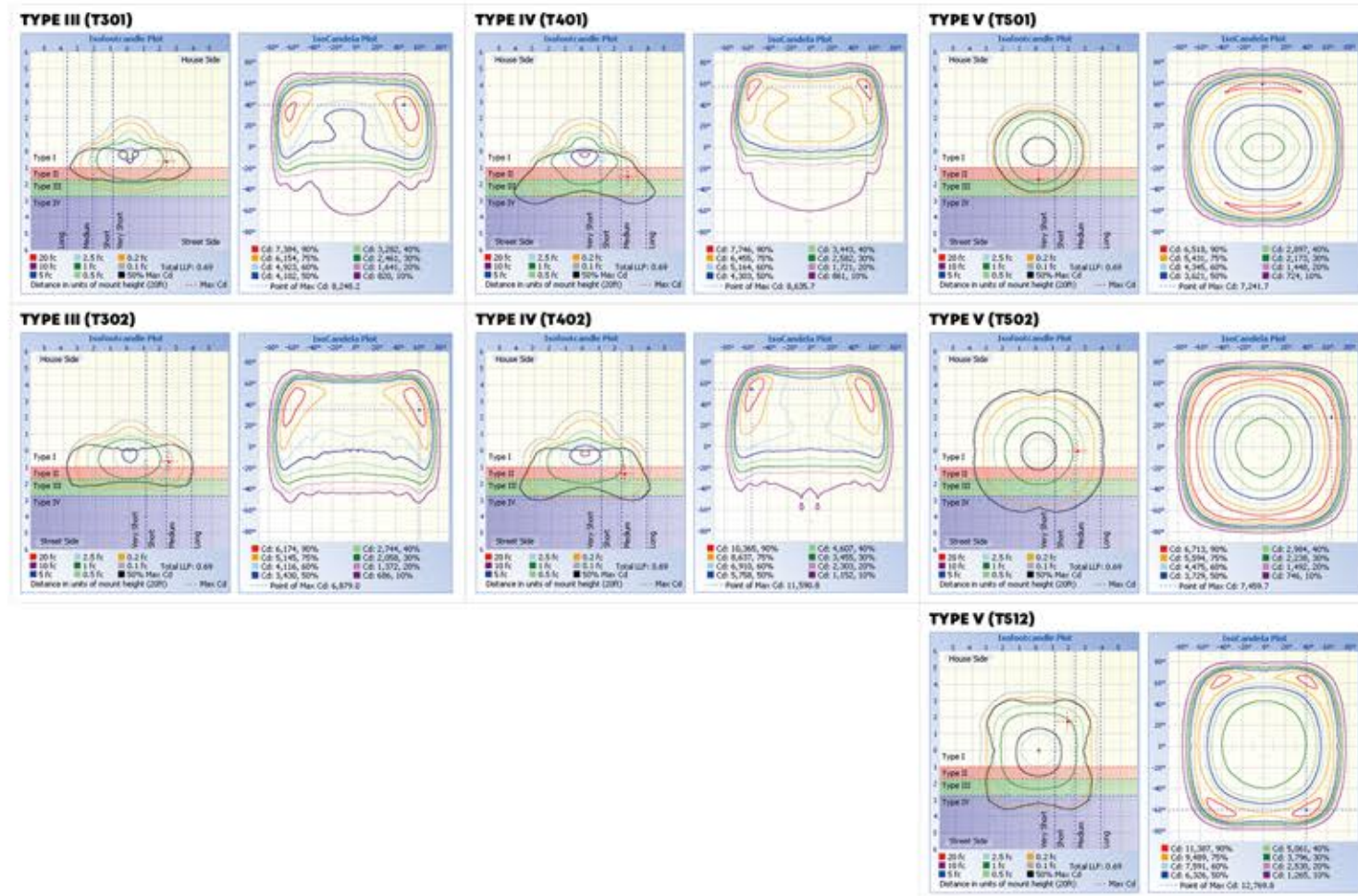


# Photometry

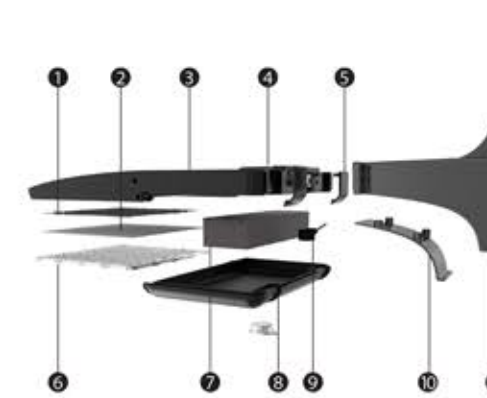


\*All published Luminaire photometric testing performed to IESNA LM-79-08 standards by a NVLAP accredited Laboratory.

# Illuminance Diagram



# Construction Features



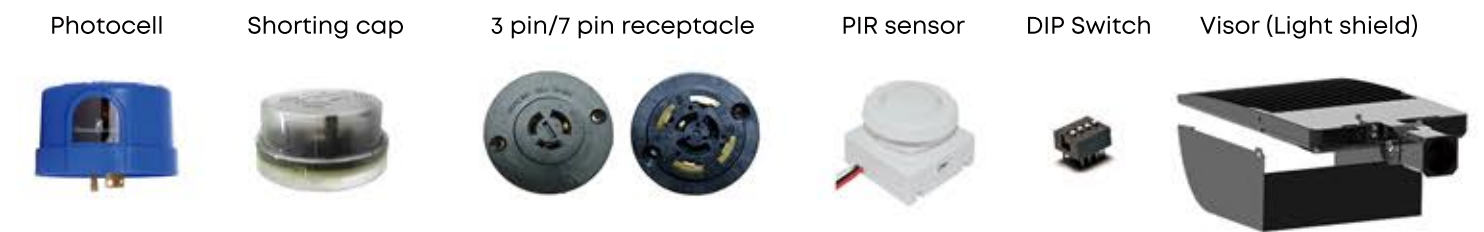
1. Super efficient heat dissipation layer
2. Light source: PCB board with LEDs
3. Die casting aluminum unibody main housing, IP66
4. Space for 5/7 pin receptacle upgradable for photocell sensor and smart systems
5. Tool free buckle to driver access panel
6. Optical grade rotatable PC lens Type III / IV / V
7. Top level 1-10V dimmable driver 100-277V / 347V / 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: 1.1kg
- Type B: 2.0kg
- Type C: 75W-145W 0.9kg, 180-230W 1.0kg, 300-420W 1.5kg
- Type D: 1.1kg
- Type E: 1.1kg
- Type F: 1.4kg
- Type G: 1.4kg

# 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.





# Illuminate Your Future



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