



# Astra Outdoor Series

For an exceptional visual experience



## Patented optical technology

A leading edge optical design creates the Astra LED projection light.



## Ultra-angle light distribution

The patented asymmetric optical design can form a 6M wide, 3M high uniform light field by installation 1M away. It provides the needed luminous efficiency and lower contrast coefficients, achieves ultra-uniform light distribution and elevates the recognition of the object.



## Convenient installation and low maintenance

Simply place the illuminating confronting the billboard without further adjustment and tilting. The distance between luminaires is twice as long as regular spot lights, requiring fewer luminaires, lower power consumption and less maintenance. An extended lifespan power supply is built into the luminaire.



# Astra Ultra Wide Angle Outdoor Projector Light

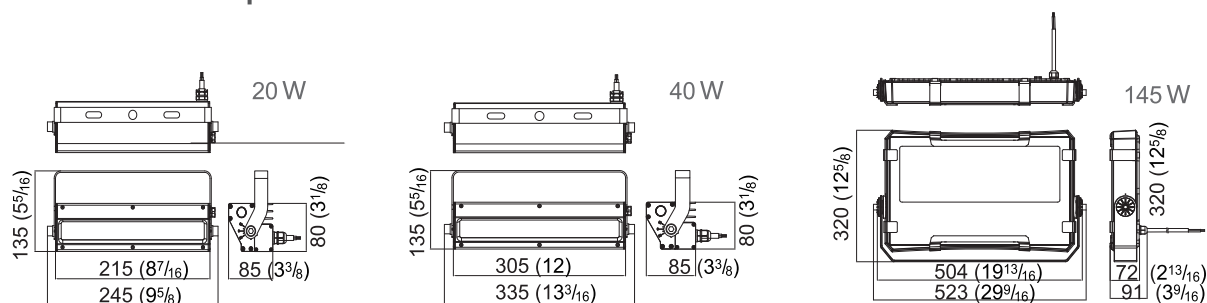


20 W

40 W

145 W

## Dimensions and photometrics



Dimensions in mm (in)

## Specifications and parameters

Performance	20W	40W	145W
Color temp. Nominal light flux	3000K : 1080 lm	3000K : 2180 lm	3000K : 9200 lm
	4000K : 1200 lm	4000K : 2400 lm	4000K : 9200 lm
	5000K : 1200 lm	5000K : 2400 lm	5000K : 10000 lm
CRI	>70	>70	>70
Weight	1.9kg/4.19lbs	2.4kg/5.29lbs	11.5kg/25.35lbs
Light angle	120°/105° (Projector light)	120°/105° (Projector light)	
Electrical			
DC watt.	18W	40W	130W
Consumption	21W	45W	145W
Input voltage	100 ~ 240V, 50/60Hz	120 ~ 240V, 50/60Hz	120 ~ 277V, 50/60Hz
Power factor	>90%	>90%	>95%
THD	<20%	<20%	<20%
Structure			
Housing material	Housing: Alum. extrusion, Alum. diecast		Housing: Alum. diecast
CREE LED	PC, Tempered glass		PC, Tempered glass
LED	CREE	CREE	CREE
Surface treatment	Anti-UV powder painting, color available with RAL# (optional)		
Environment			
Protection grade	IP65	IP65	IP66
Working temp.	-40 ~ +45°C	-40 ~ +45°C	-40 ~ +45°C
Surge protection	n/a	n/a	IEC 61643 5kA



Low uniformity and obvious dark zones, and the central illuminance is high.



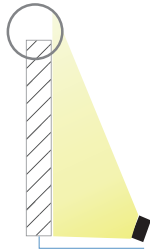
Ultra wide angle, illuminance is even.

## Optical characteristics

The Astra outdoor projector light adopts an asymmetric lens design, providing a high uniformity lighting effect, elevating the recognition of the object to achieve an excellent lighting experience.

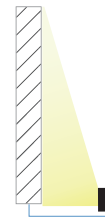
### General spot light

Short installation distance.  
No outbound glare.



### Astra ultra wide-angle outdoor projector light

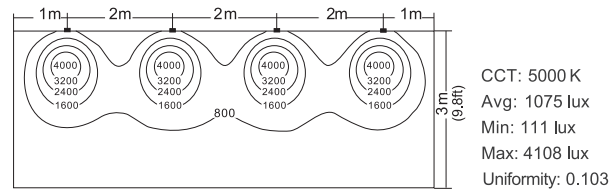
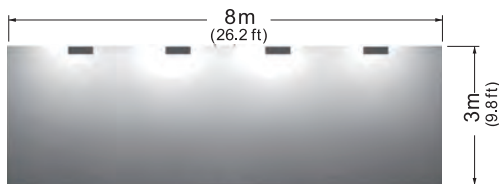
The light leaks out of the billboard and makes the glare.



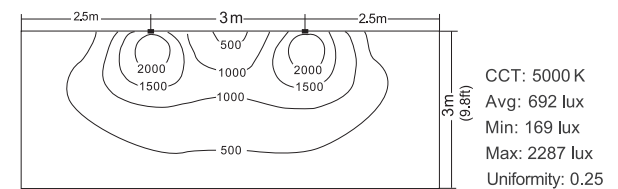
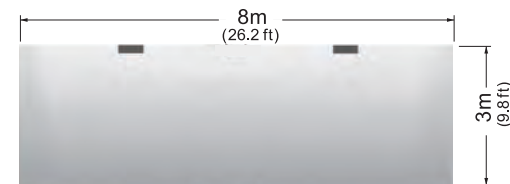
## Outdoor billboard board - Big

Install 1m (3.3ft) to the billboard

### Regular projector light 120W x 4pcs



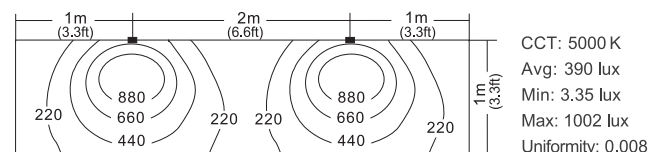
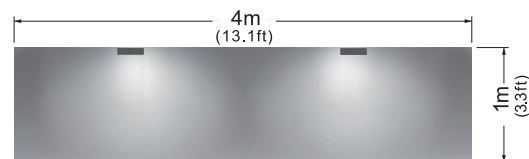
### Astra projector light 145W x 2pcs



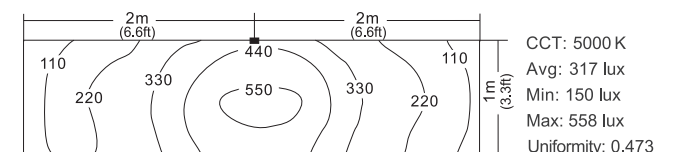
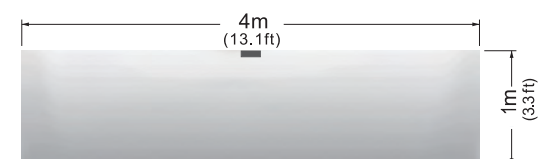
## Outdoor billboard/signage board - Small

Install 1m (3.3ft) to the billboard

### Regular projector light 30W x 2pcs

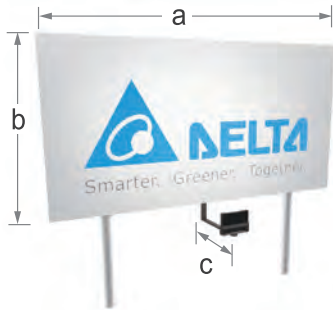


### Astra projector light 40W x 1pcs

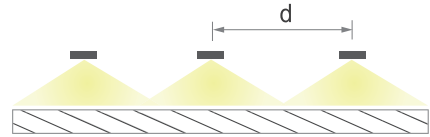




## Lamp location recommendation

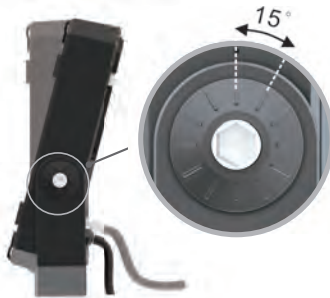


Distance from luminaire to the object  
 $a=6, b=3, c=1$



Distance from luminaire to luminaire  
 $d \leq 6c$

## Installation recommendation



### In parallel to the object

The luminaire's luminous side faces the object in parallel to obtain the optimized average brightness.



### Adjustable tilt angle 0~15°

Adjustment for the most suitable light distribution for different situations.



NOTE: The illumination area is kept from dust accumulation because of the vertical installation, which supports lower maintenance.

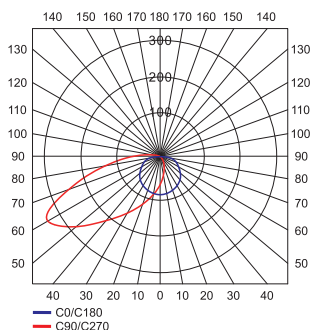
## Innovative luminaire mechanical design



- Projection grade IP66, Impact protection grade IK06
- EC 61643 5kA Surge protection
- Waterproof exhaust valve

Exhaust valve pushes out the humidity brought by the heat from lamp ignition, preventing the dust from entering, which enhances reliability.

## Photometrics



## Nomenclature

L T D A A C N J 4 0 A U 1 A  
X1 X2 X3 X4

X1 Finished Color	X2 CCT	X3 Wattage	X4 Certification
C:Black	H: 3000K, Ra70 I: 4000K, Ra70 J: 5000K, Ra70	40: 40W A4: 145W	A: CE C: CCC U: UL



## About Delta Group

Our extensive local reach serves our worldwide customers from over 169 operation sites.

Delta's core competence is in comprehensive smart energy solutions.

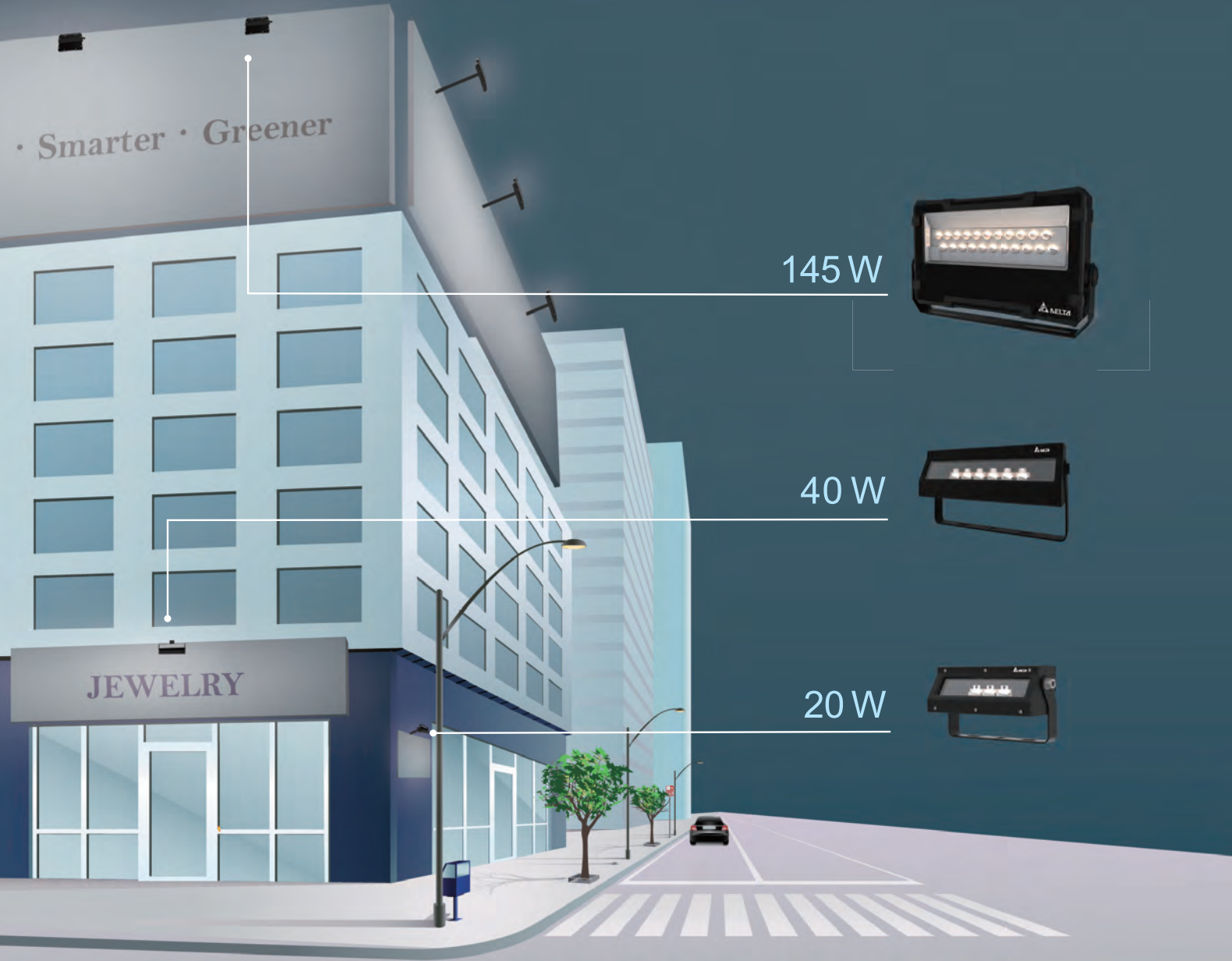
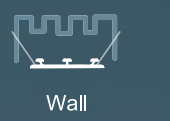
We provide a True One Solution experience with end-to-end services and support.

- Delta Group established in 1971, names in the DJSI World Index for the 8th consecutive year and in the DJSI Emerging Markets Index for the 6th consecutive year.
- Delta's high-efficiency energy-saving products have helped our global customers reduce approximately 12.96 million metric tons of emissions electricity between 2010 and 2017.
- There are 27 Delta's green buildings and 2 green datacenter around the world.

As a leading Building Automation solution provider, the Delta Building Automation team provides a the comprehensive energy management system, building automation, smart lighting and surveillance solutions for diverse vertical markets and applications. Our service network and experience include:

- Local service and support in over 160 countries
- Over 600 regional partners
- Over 30,000 installed buildings around the world

## Application areas



145 W



40 W



20 W



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