Astra

For an exceptional visual experience

AMECO

Astra Asymmetric lens design for excellent uniformity

Patented optical technology

A leading-edge optical design holds the secret to the unique Astra LED projection light.

Superb uniforminty

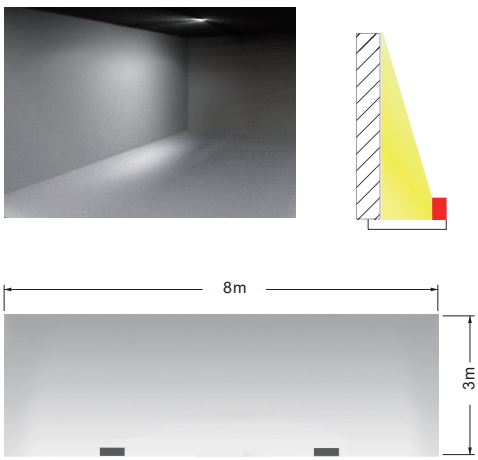
Its Sophisticated asymmetric lens design optimizes luminous efficiency and delivers an ultra-uniform light distribution.

Easy installation

Requiring no additional tilting or further adjustment, the Astra Series is hassle free and perfect as is.

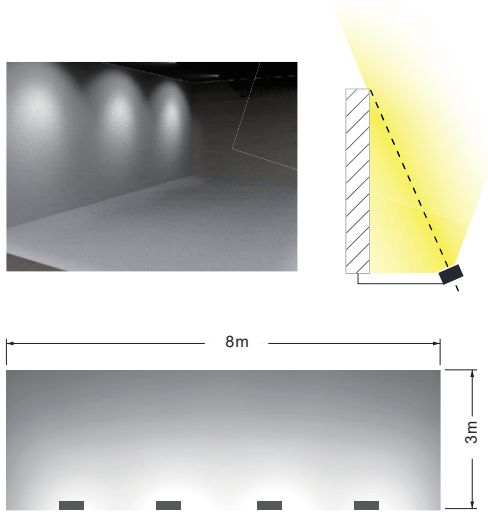
Astra

Shorter installation distance and more uniformity.



Regular spot light

For optimized uniformity effect, tilting the lamp reduces the light utilization rate.



01

Astra Outdoor Flood Light

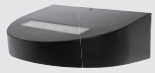
Bridge pier
River dock
Wall
Image wall

05

Astra Bollard

Garden
Front porch
Park pathway
Lake side

07



Astra Wall Light

Patio ceiling
Balcony ceiling

09

Astra Indoor Flood Light

Menu board
Artwork walls

Astra Outdoor Flood Light

Astra Outdoor Flood Light is designed to meet the needs of the billboard/signboard and architectural lighting market. Its sophisticated asymmetric optics provide superb uniform illumination.

Astra Outdoor Flood Light illuminates areas up to 3 times as wide as regular flood lights and provides exceptionally uniform illumination while saving energy and reducing installation cost.

RoHS CE

20W

40W

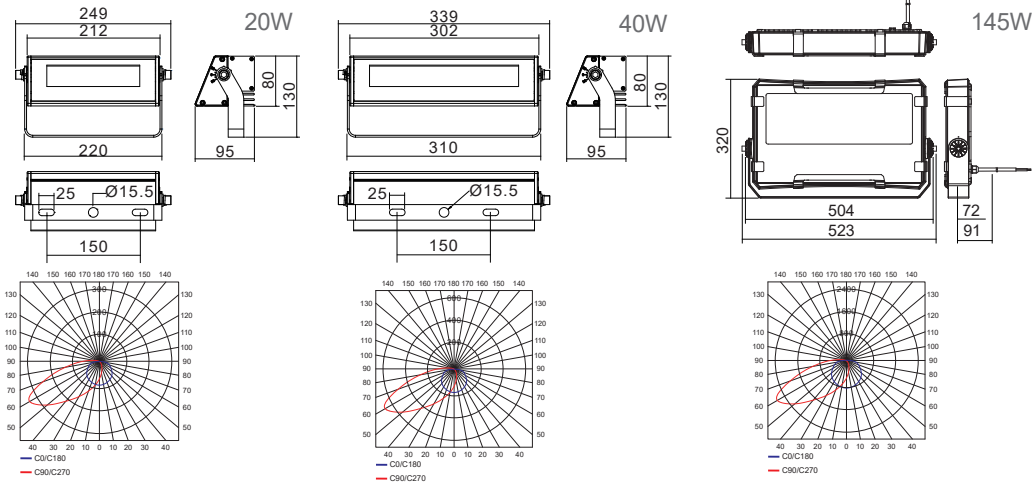
145W

Specifications and parameters

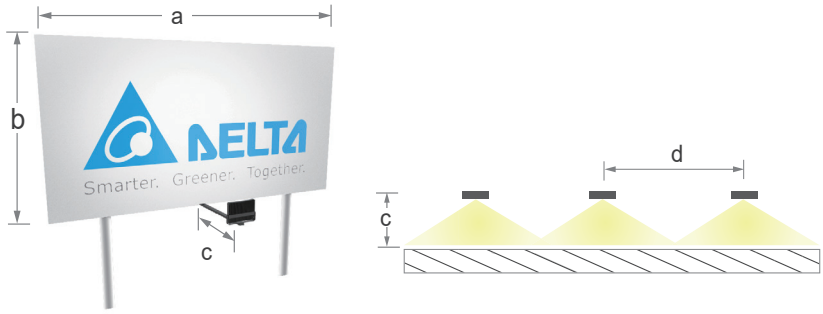
Power	20W	40W	145W
Color temp. Luminus flux (tpy.)	3000K: 1080 lm 4000K: 1200 lm 5000K: 1200 lm	3000K: 2180 lm 4000K: 2400 lm 5000K: 2400 lm	3000K: 9200 lm 4000K: 9200 lm 5000K: 10000 lm
CRI	>80	>80	>80
Weight	2kg	2.6kg	11.5kg
Light angle	120˚/105˚	120˚/105˚	120˚/105˚
Input voltage	100 ~ 240V, 50/60Hz	120 ~ 240V, 50/60Hz	120 ~ 277V, 50/60Hz
Power factor	>90%	>90%	>95%
THD	<20%	<20%	<20%
Material	Aluminum	Aluminum	Aluminum
Cover	Tempered glass	Tempered glass	Tempered glass
LED	CREE	CREE	CREE
Surface treatment	Anti-UV powder painting, color available with RAL# (optional)		
Color	Black	Black	Black
Protection	IP66	IP66	IP66
Operating temp.	-40~+45˚C	-40~+45˚C	-40~+45˚C
Surge protection	L-N:2Kv, L/N-PE:4Kv	L-N:4Kv, L/N-PE:6Kv	IEC 61643 5kA

Dimensions and photometrics

Dimensions in mm



Lamp distance recommendation

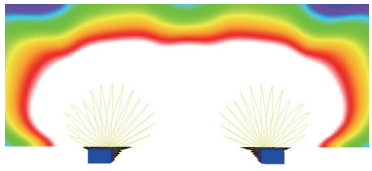


Distance from luminaire to the object
a=6, b=3, c=1

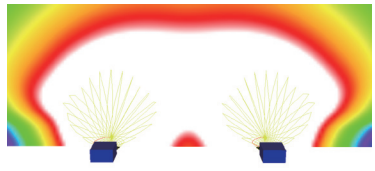
Distance from luminaire to luminaire
d≤6c

Installation options

Luminaire installed in parallel to signboard obtains the optimized uniformity



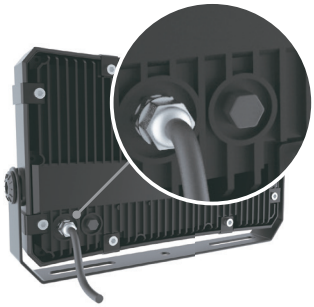
Luminaire tilts angle 0-15° for different uniform light distribution on signboard

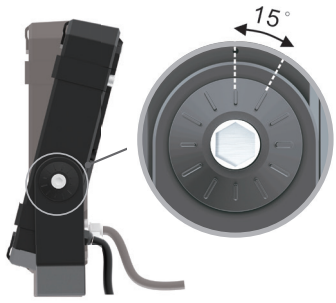


NOTE: The illumination area is kept from dust accumulation because of the vertical installation, which supports lower maintenance.

Product Highlight

Luminaire mechanical design





- **Protection grade IP66**
- **Impact protection grade IK08**
- **IEC 61643 5kA Surge protection**
- **Waterproof exhaust valve**

The waterproof exhaust valve pushes out the humidity caused by the heat from lamp ignition, prevents the dust from entering, and thus enhances reliability.

Lighting effect & simulation

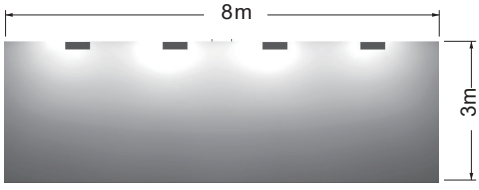
Regular

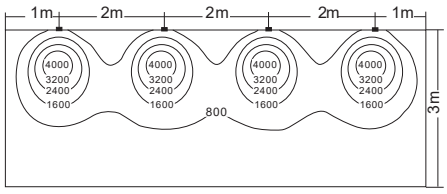
Astra

Outdoor billboard - *Large* **W** 8m x **H** 3m

100cm from the billboard

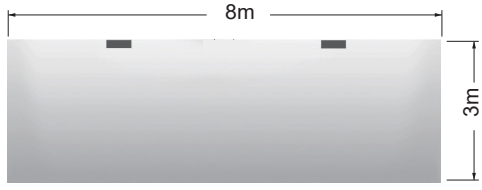
Regular 120W x 4pcs

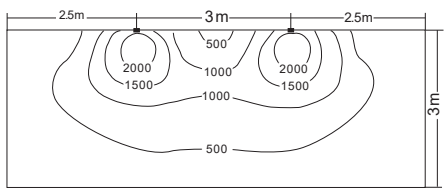




CCT: 5000 K
Avg: 1075 lux
Min: 111 lux
Max: 4108 lux
Uniformity: 0.103

Astra 145W x 2pcs



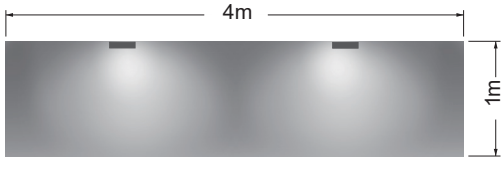


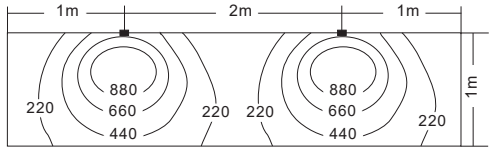
CCT: 5000 K
Avg: 692 lux
Min: 169 lux
Max: 2287 lux
Uniformity: 0.25

Outdoor billboard/signage - *Small* **W** 4m x **H** 1m

100cm from the billboard

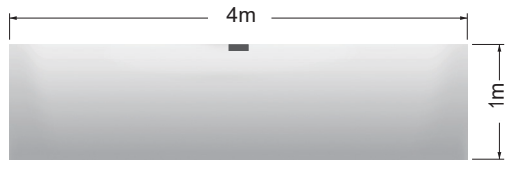
Regular 30W x 2pcs

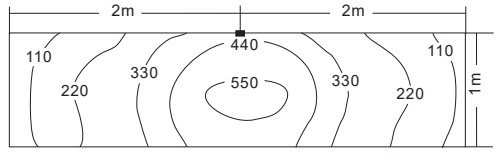




CCT: 5000 K
Avg: 390 lux
Min: 3.35 lux
Max: 1002 lux
Uniformity: 0.008

Astra 40W x 1pcs





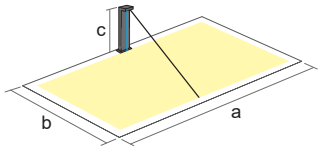
CCT: 5000 K
Avg: 317 lux
Min: 150 lux
Max: 558 lux
Uniformity: 0.473

Astra Bollard

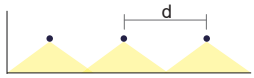
Astra Bollard adopts patented Astra optics technique to ensure ample lighting for a wide coverage from reliable and enduring light fixtures for outdoor walkway. The unique forward throw asymmetric light distribution enables deeper and wider illumination on the ground, reducing the number of fixture required and lighting up a pathway while not imposing any glare to pedestrian view sight with low and shield light aperture.

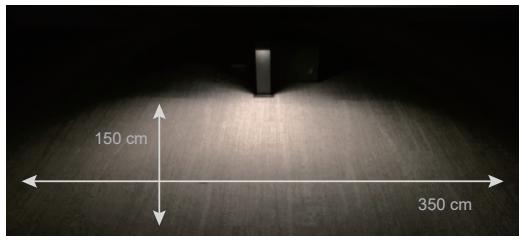
RoHS CE

Lamp distance recommendation



C=0.6m , a=3.6m, b=1.8m

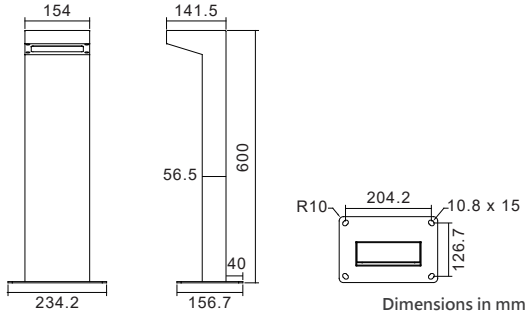


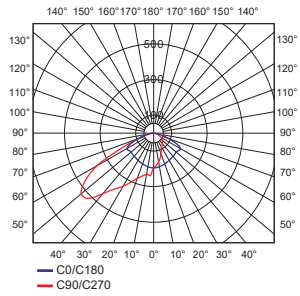


Specifications and parameters

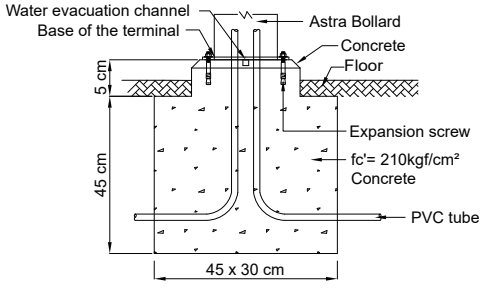
Power	10W
Color temp.	3000K
CRI	>80
Luminus flux (tpy.)	550 lm
Beam angle	120˚/105˚
Weight	6kg
Operating temp.	-20~+40˚C
Lamp power factor	>0.5
Instant light	< 1s instant full light
Material	Stainless
Control	on/off
Protection	IP65
Life time	2 years

Dimensions and photometrics





Installation

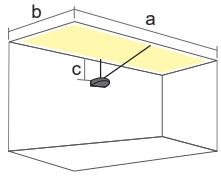


Astra Wall Light

Astra Wall Light adopts patented Astra optics technique to ensure ample lighting for a wide coverage from reliable and enduring light fixtures. The unique forward throw asymmetric light distribution enables a wider illumination to the ceiling for a dark balcony.

RoHS CE

Lamp distance recommendation

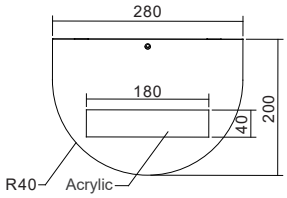


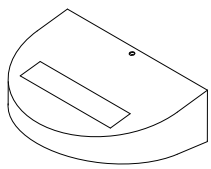
C=0.6m , a=3.6m, b=1.8m

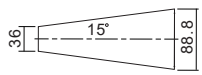
Specifications and parameters

Power	20W
Color temp.	3000K
CRI	>80
Luminus flux (tpy.)	1000 lm
Beam angle	120˚/105˚
Weight	3kg
Operating temp.	-20~+40˚C
Lamp power factor	>0.5
Instant light	<1s instant full light
Material	Stainless
Control	on/off
Protection	IP65
Life time	2 years

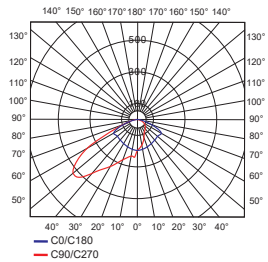
Dimensions and photometrics



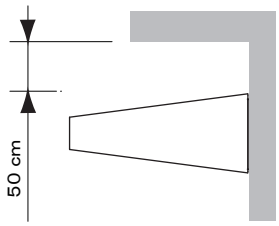


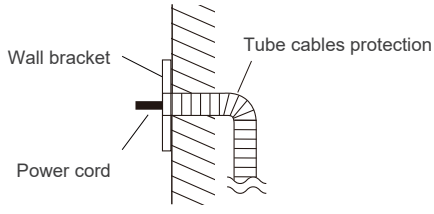


Dimensions in mm



Installation



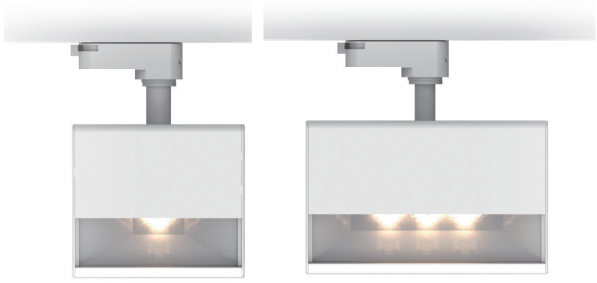


This wall is 5.8m wide, 2.2m high.

Astra Indoor Flood Light

Astra Indoor Flood Light delivers an ultra-wide angle lighting distribution with its patented asymmetric photometric design. Sophisticated photometrics optimize its efficiency and uniformity while reducing the number of luminaires required.

Track



8W 20W

Ceiling Mounted

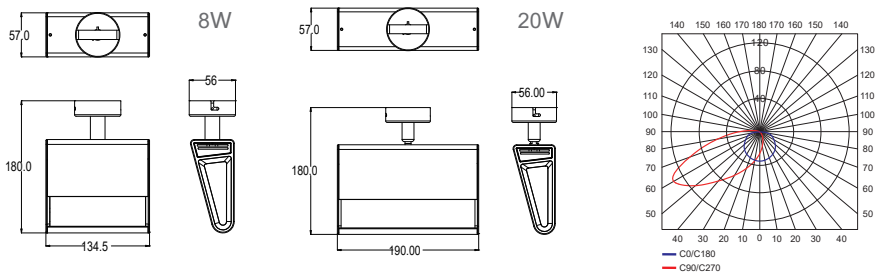
8W 20W

Specifications and parameters

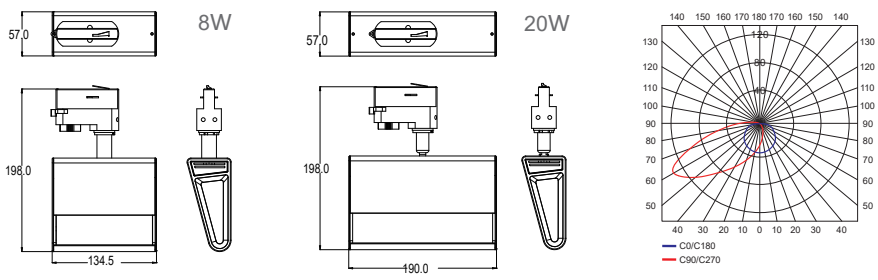
Power	8W	20W
Color temp. Luminous flux (typ.)	3000K: 340 lm 4000K: 385 lm 5000K: 385 lm	3000K: 1020 lm 4000K: 1150 lm 5000K: 1150 lm
CRI	90	90
Beam angle	95˚*135˚ (Flood light)	95˚*135˚ (Flood light)
Weight	650g	920g
Operating temp.	-20~+40˚C	-20~+40˚C
Lamp power factor	>0.5	>0.9
Material	Aluminun	Aluminun
Color	White / Black	White / Black
Cover	Glass	Glass
Control	on/off	on/off

Dimensions and photometrics

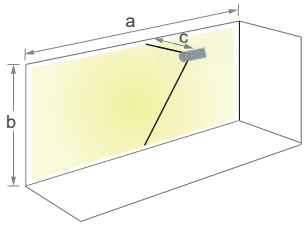
Track



Ceiling Mounted



Lamp distance recommendation



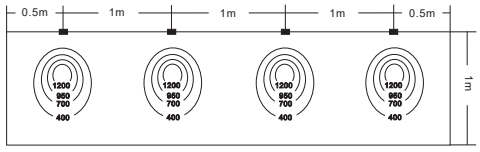
For uniform illuminance
a=6, b=3, c=1

Lighting effect & simulation

Menu board **W** 4m x **H** 1m

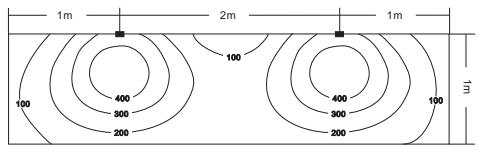
50cm from the menu board

Regular LED MR16 10W x 4pcs



CCT: 3000 K
Avg: 337 lux
Min: 10 lux
Max: 1980 lux
Uniformity: 0.03

Astra 8W * 2pcs

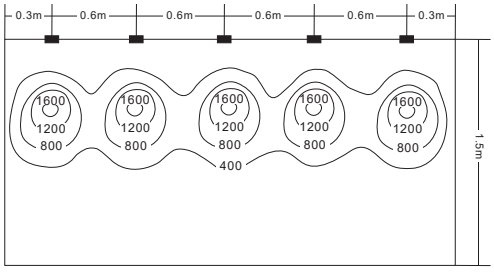


CCT: 3000 K
Avg: 227 lux
Min: 88 lux
Max: 495 lux
Uniformity: 0.3

Poster **W** 3m x **H** 1.5m

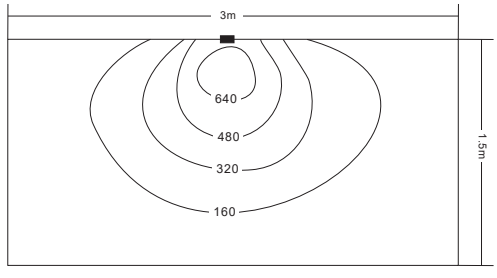
70cm from the wall

Regular 12W x 5pcs



CCT: 4000 K
Avg: 367 lux
Min: 34 lux
Max: 1654 lux
Uniformity: 0.103

Astra 20W x 1pc



CCT: 4000 K
Avg: 210 lux
Min: 352 lux
Max: 772 lux
Uniformity: 0.261

AMECO

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Version 2_202007

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