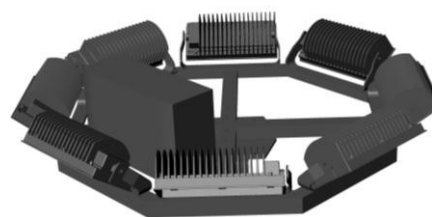


# AREALUX AL360 DATASHEET

## LED FLOOD LIGHT AREALUX TYPE AL360 SERIES 1500 W - DIMMABLE

Type numbers: AL360-45 AL360-50 AL360-55 AL360-60



AL-360

### Typical Application Area's

The AREALUX LED floodlight AL360 series are suitable for masts between 12 and 25 m high, as a replacement of all types of High Pressure Sodium and Metal Halide luminaires, including ballast. The single luminaire distributes the light over a 360° circle.

Typical application areas are:

- Container terminals
- Parking lots
- Roundabouts
- Train terminals
- Industrial plants
- Airports



*Illumination pattern single AL-360 top view*

More information can be found on [www.AREALUX.nl](http://www.AREALUX.nl)

### Features and benefits

Feature	Benefit
<b>Better light</b> <ul style="list-style-type: none"><li><input type="checkbox"/> Superior color rendering</li><li><input type="checkbox"/> Improved light uniformity</li></ul>	Improved safety Increased productivity
<b>True retrofit</b> <ul style="list-style-type: none"><li><input type="checkbox"/> Direct connection to 400 VAC</li></ul>	Easy replacement <ul style="list-style-type: none"><li><input type="checkbox"/> Fits on existing masts</li><li><input type="checkbox"/> No extra installation costs</li></ul>
<b>Wireless Lighting Management System</b> <ul style="list-style-type: none"><li><input type="checkbox"/> Central monitoring and control</li><li><input type="checkbox"/> Freedom of installation of sensor and luminaires</li></ul>	Easy to control – Flexible <ul style="list-style-type: none"><li><input type="checkbox"/> Monitor and adjust power consumption</li><li><input type="checkbox"/> Plan efficient maintenance</li></ul>
<b>Significant Energy Saving</b> <ul style="list-style-type: none"><li><input type="checkbox"/> No start-up time needed</li><li><input type="checkbox"/> Dimming reduces power consumption</li></ul>	Short ROI <ul style="list-style-type: none"><li><input type="checkbox"/> Based on power consumption reduction</li><li><input type="checkbox"/> No relamping costs</li></ul>
<b>Long lifetime</b> <ul style="list-style-type: none"><li><input type="checkbox"/> 60 000 hrs</li></ul>	No relamping costs <ul style="list-style-type: none"><li><input type="checkbox"/> Increase system up-time</li></ul>
<b>High efficient optics</b> <ul style="list-style-type: none"><li><input type="checkbox"/> Illuminate what is needed</li><li><input type="checkbox"/> Increase system efficiency</li></ul>	Less power needed for same lighting level Reduction of stray light

# AREALUX AL360 DATASHEET

## Description

The AREALUX AL360 floodlight series are a true retrofit for existing Metal Halide and High Pressure Sodium fixtures. The AREALUX proprietary Lighting Management System (LMS) can wirelessly switch and dim the luminaire. In absence of a LMS, the luminaires switch on at full power. The product is equipped with high-quality LED lamps and optics. The 8 light sources are configured, such that the surface is uniformly illuminated. The high quality optics illuminate the surface uniformly and produce very little stray light at the same time.

The integrated electronic power supply has a high efficiency (more than 95%), and a power factor (PF) above 0.95.

With the absence of inrush current, the electrical installation can be designed at nominal current, saving significant cabling costs in case of new build installations. All materials used are suitable for outdoor use, even in harsh conditions. The fixture is particularly suitable for container terminals, industrial sites, parking lots, airport terminals and train facilities. The product has a long lifetime and a high reliability. The significant energy reduction results in a short payback period of the investment.

## Technical data

### Light technical – mechanical – electrical data

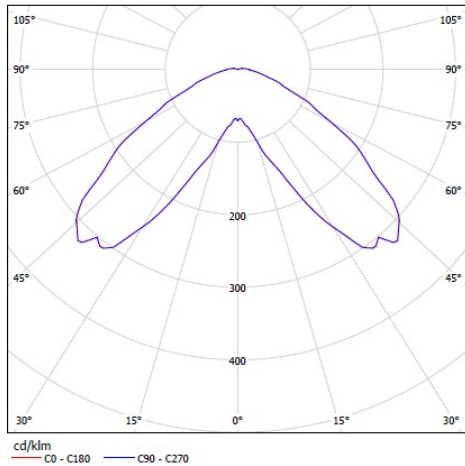
Specification	Min	Typ	Max	Unit
Power consumption @100 % @ 20 %		1500 200	1600	W
Voltage input	370	400	430	VAC
Current @ 100%		4.0	4.5	A
Power factor @ 100% intensity	0.95	0.98		
Frequency	45		60	Hz
Color temperature		5200		K
Color rendering index	70	80		
Weight		25		kg
Ingress protection		IP65		
Electrical Insulation Class		I		
Lifetime @ T <sub>amb</sub> =25°C		60 000		hrs

# AREALUX AL360 DATASHEET

## Light technical information: Polar intensity diagram and dimming-power ratios

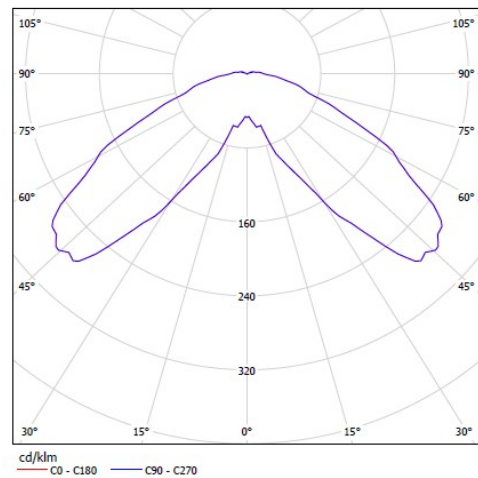
The AL-360 is available in four light source angles to accommodate for area size and mast height. For light planners, example light plans can be downloaded from the AREALUX website and IES-files and are available upon request.

Luminaire: AREALUX AL-360-45 v6.0  
Lamps: 1 x 8 LED SOURCES AREALUX



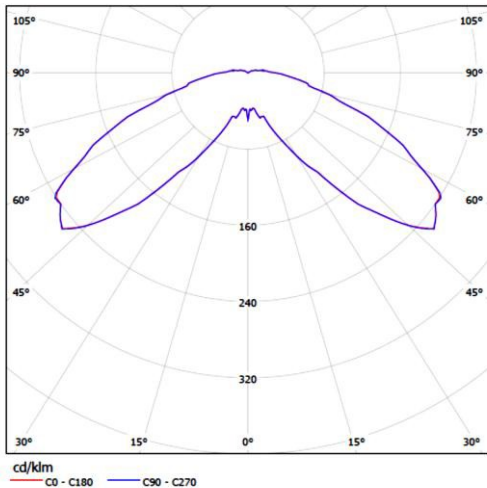
AL-360-45

Luminaire: AREALUX AL-360-50 v6.0  
Lamps: 1 x 8 LED SOURCES AREALUX



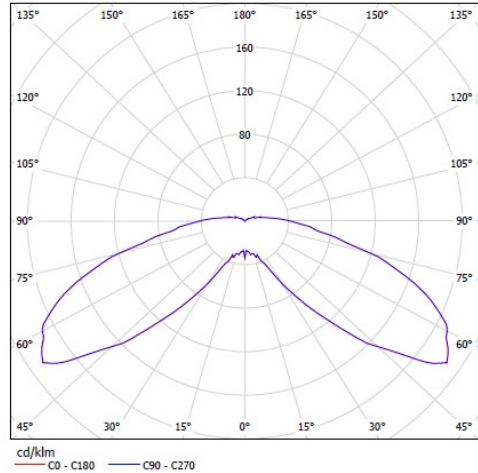
AL-360-50

Luminaire: AREALUX AL-360-55 v6.0  
Lamps: 1 x 8 LED SOURCES AREALUX



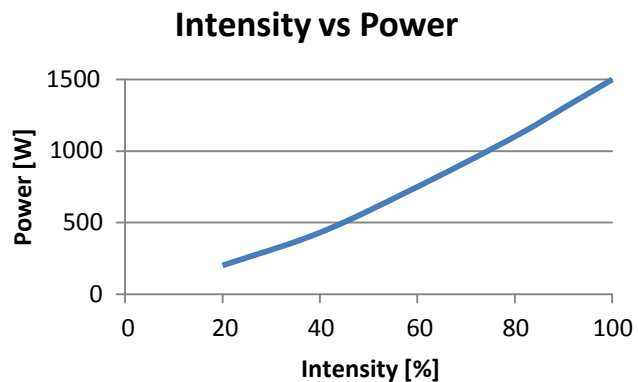
AL-360-55

Luminaire: AREALUX AL-360-60 v6.0  
Lamps: 1 x 8 LED SOURCES AREALUX



AL-360-60

Intensity [%]	Power [W]
20	200
40	430
60	750
80	1100
90	1300
100	1500



Power consumption versus dimming ratio

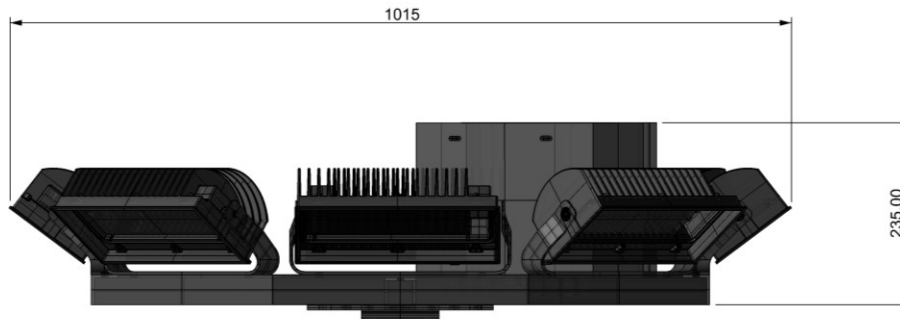
Feb 2013 v02 - AREALUX – Eindhoven – The Netherlands – [www.AREALUX.nl](http://www.AREALUX.nl) – [info@AREALUX.nl](mailto:info@AREALUX.nl)

Data subject to changes without prior notice

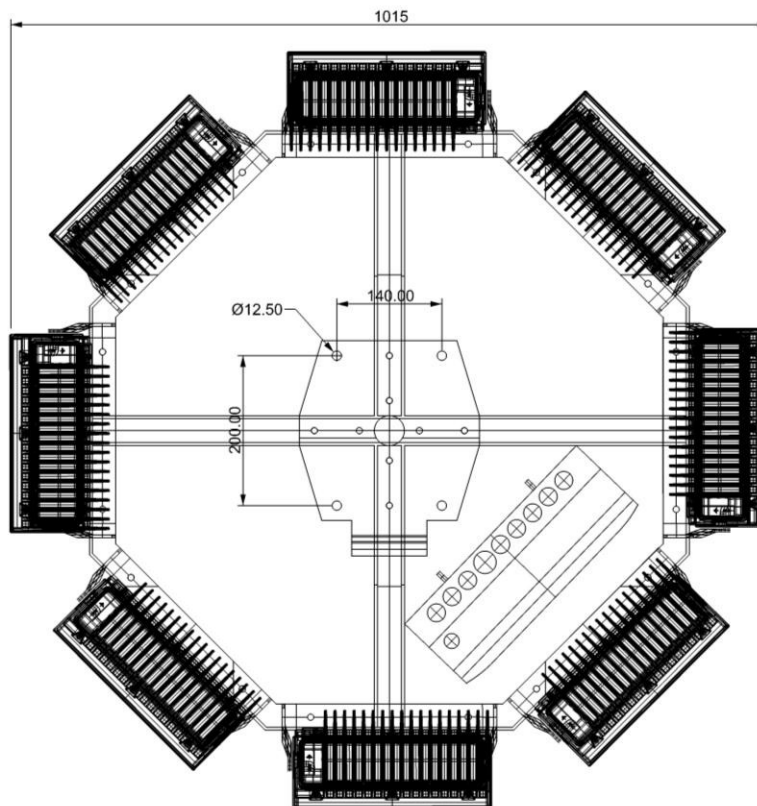


# AREALUX AL360 DATASHEET

**Mechanical dimensions (in mm) – For reference only**



*AL-360 side view*



*AL-360 top view*

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# AREALUX AL360 DATASHEET

## **Safety**

Before installation read the installation manual carefully.

Make sure that everyone working with the product during installation is known with the content of the installation manual.

## **Maintenance**

Maintenance is not needed throughout the lifetime of the product, except cleaning and inspection of the product.

## **400V Electrical voltage**

During installation the 400V is connected and disconnected via a safe connection box, with connections for PE (protective earth) and 2-phases. See Installers Manual for more details.

The product contains an electronic switch mode power supply.

In case of a non-functioning product, high voltages can still be on the power supply even after being disconnected from mains. Also a by software fully dimmed product will not emit any light and still can be connected to 400V.

400V is considered as life threatening voltage and opening of the electronic driver box is only

allowed at an AREALUX certified repair center. All other situations voids warranty and can cause life threatening situations.

## **Patented**

The product is protected by European patent(s)

***Made in the Netherlands***

## **AREALUX**

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