

BOA

A 3in architectural linear that can follow almost any path, including continuous runs, intersections and curves. Curves, radii and lengths are made to order for each project, in surface or suspended mounting, and custom shapes come at a competitive price.

Art Galleries

Office

Retail Stores

Hospitality



Project Information

Type: Date:
 Project:
 Catalog #:
 Notes:



Key Specifications

Electrical

Input voltage	120-277V
Power factor	> 0.9
THD	< 20%
Dimming	0-10V dimming
Power	~11W/ft

Optical

CRI	85 CRI
CCT	3000K · 3500K · 4000K
Efficacy	~840lm/ft 76lm/W
Optics	Prismatic
Distribution	110°

Physical

Aperture	3in
Mounting	Surface · Suspended
Fixture finish	Black · White · Custom
Design freedom	Custom length · curves · arcs Continuous runs · intersections
Operating temp.	-20°C to 45°C

Certifications

Listings	cETLus · RoHS
Warranty	5 years
Lumen maintenance	L90 at 72000h

System Warranty

5 years

Eralux will warrant defective drivers, LEDs and boards for 5 years from the date of purchase. This warranty is valid only if the fixture is installed and used as per installation guides and specifications. If a defect is present, Eralux will send drivers and boards at no fee with thorough replacement instructions along with instructions on the return of the defective parts back to Eralux.

Lumen Maintenance

L90 at 72000h

Rated for 90% initial lumen output at 72000h of operation, operated at 25°C ambient temperature; per guidelines published by the Illuminating Engineering Society (IES).

Ordering Guide - Designs

Assembled Catalog Number

[RESET](#)

BOA-NR

01 FIXTURE FAMILY



BOA-NR

ERALUX BOA Architectural Fixture · 3in aperture

02 CCT



-30
3000K



-35
3500K

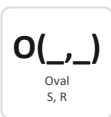


-40
4000K

03 DESIGN



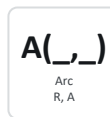
R(_ _ _)
Rectangle
S1, S2, R



O(_ _)
Oval
S, R



C(_)
Circle
R



A(_ _)
Arc
R, A

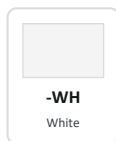


L(_)
Straight
run X

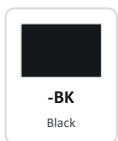


F(_)
Free
design X

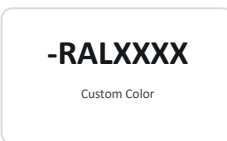
04 FINISH



-WH
White



-BK
Black



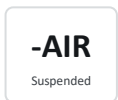
-RALXXXX

Custom Color

05 MOUNTING



-SMT
Surface Mount



-AIR
Suspended

All dimensions are given in feet: sides in ft, radii in ft and angles in degrees. Radius is available in 1, 1.5, 2, 3 and 4ft — contact factory for larger dimensions. Minimum radius is 1ft, measured from the centre of the arc to the centre of the fixture.

All accessories needed for the design are included in the ordering code: mechanical and electrical links, power cords, 6ft power cord, surface mount screws (-SMT), canopies and 6ft suspended cable (-AIR). 3-way and 4-way intersections are available depending on the design.

Caution: where several fixtures share one 0-10V dimming line, a 0-10V controller must be used for consistent dimming; a single switch is not recommended for controlling multiple fixtures simultaneously. Maximum of 700W per electrical drop.

CUSTOM RAL COLORS



RAL 6005
Moss Green



RAL 6032
Signal Green



RAL 6027
Light Green



RAL 5003
Sapphire Blue



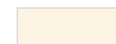
RAL 7001
Silver Gray



RAL 7033
Cement Gray



RAL 7038
Agate Gray



RAL 9001
Cream



RAL 9006
Silver



RAL 7040
Window Gray



RAL 1015
Light Ivory



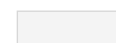
RAL 2012
Salmon Orange



RAL 3031
Orient Red



RAL 8024
Beige Brown



RAL 9003
Signal White



RAL 9007
Gray Aluminum



RAL 9022
Light Pearl Gray



RAL 9023
Pearl Dark Gray



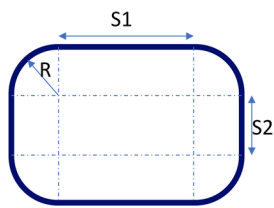
RAL 7011
Iron Gray



RAL 9004
Signal Black

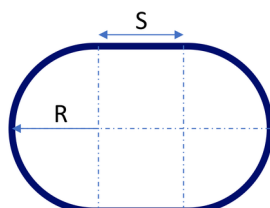
Replace RALXXXX with the four-digit RAL number. Colors are indicative — contact the manufacturer for anything outside this chart.

Design Reference



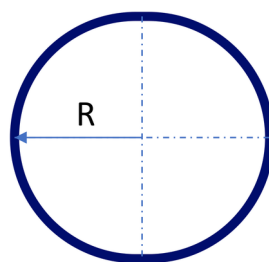
R(S1, S2, R) Rectangle

Side 1 (S1), side 2 (S2) and radius (R) in feet. For a square, S1 = S2.



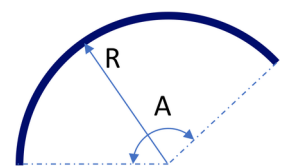
O(S1, R) Oval

Side (S) and radius (R) in feet.



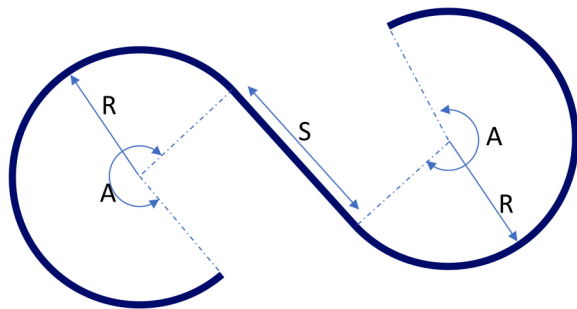
C(R) Circle

Radius (R) in feet.



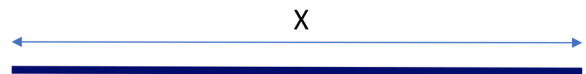
A(R, A) Arc

Radius (R) in feet and angle (A) in degrees.



F(X) Free Design

Sketch the design on the last page and specify every dimension — lengths, radii and angles.



L(X) Straight Linear Run

Specify the total linear length (X) in feet.

For more complex designs use free design or contact factory. Maximum of 700W per electrical drop. Minimum radius is 1ft. The radius R is measured from the centre of the arc to the centre of the fixture. All accessories are included in the ordering code: mechanical and electrical links, power cords, 6ft power cord, surface mount screws (-SMT), canopies and 6ft suspended cable (-AIR). 3-way and 4-way intersections are available depending on the design.

Innovative design

Extruded aluminum housing for better heat dissipation. Highly durable polycarbonate and high transmittance lens.

Multiple options

Custom designs · three CCT: 30, 35, 40K · black, white and custom finishes · emergency backup battery.

Mountings available

Suspended · surface mount.

Custom design

Continuous lens · rectangle with curved corners · oval · circle · arc · free design · 3-way or 4-way intersections (contact factory for more information).



Lumen Estimate

Straight length

LENGTH	POWER	LUMENS
3ft	33W	2520lm
4ft	44W	3360lm
5ft	55W	4200lm
6ft	66W	5040lm
7ft	77W	5880lm
8ft	88W	6720lm

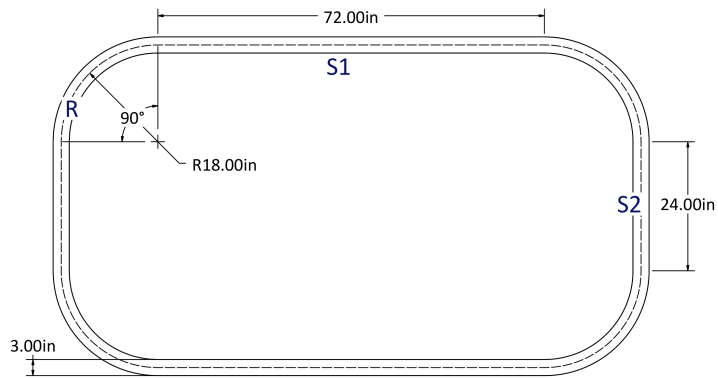
By finish

	BLACK	WHITE
Efficacy	76.28lm/W	89.5lm/W
Output	840lm/ft	969lm/ft
Power	11W/ft	11W/ft

Arc

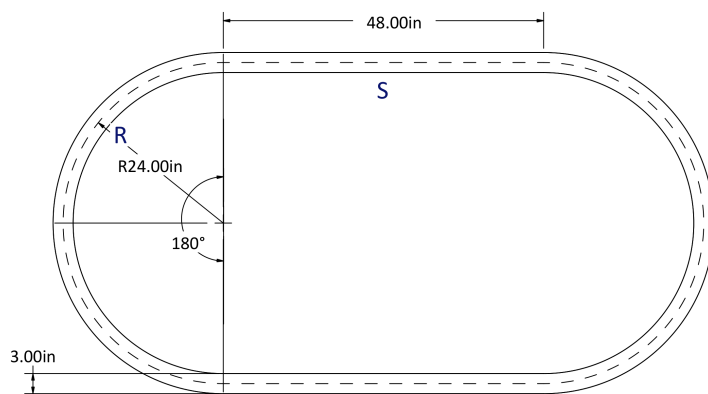
ANGLE	RADIUS	LENGTH	POWER	LUMENS
45°	1ft	0.8ft	8.8W	672lm
45°	1.5ft	1.2ft	13.2W	1008lm
45°	2ft	1.5ft	16.5W	1260lm
45°	3ft	2.3ft	25.3W	1932lm
45°	4ft	3ft	33W	2520lm
90°	1ft	1.6ft	17.6W	1344lm
90°	1.5ft	2.3ft	25.3W	1932lm
90°	2ft	3ft	33W	2520lm
90°	3ft	4.7ft	51.7W	3948lm
90°	4ft	6.3ft	69.3W	5292lm
180°	1ft	3ft	33W	2520lm
180°	1.5ft	4.7ft	51.7W	3948lm
180°	2ft	6.3ft	69.3W	5292lm
180°	3ft	9.5ft	104.5W	7980lm
180°	4ft	12.5ft	137.5W	10500lm

Ordering Examples



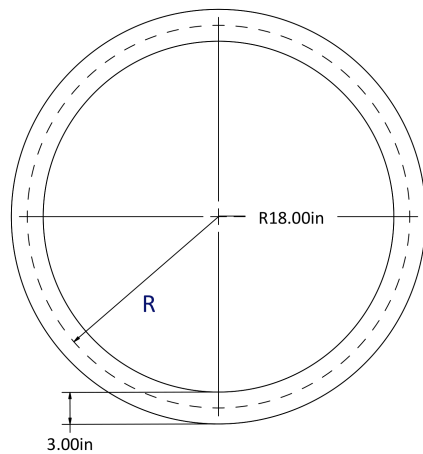
Rectangle — R($S1$, $S2$, R)

Ordering part number R(6, 2, 1.5). $S1$ is the linear length on the longer side, 6ft = 72in. $S2$ is the linear length on the shorter side, 2ft = 24in. For the arc corners the angle is 90° and R is the radius, 1.5ft = 18in



Oval — O(S , R)

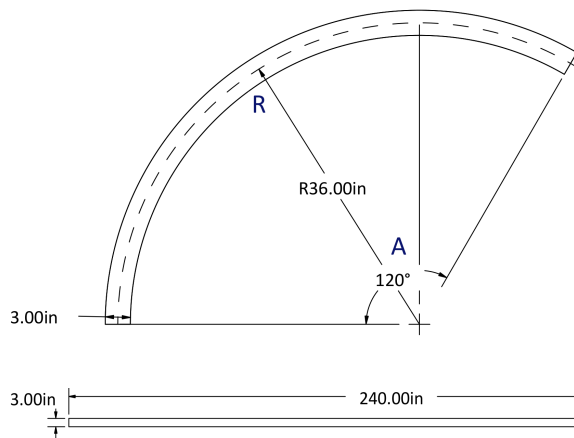
Ordering part number O(4, 2). S is the linear length on the longer side, 4ft = 48in. For the arc sides the angle is 180° and R is the radius, 2ft = 24in



Circle — C(R)

Ordering part number C(1.5). R is the radius of the circle, 1.5ft = 18in

Ordering Examples



Arc — $A(R, A)$

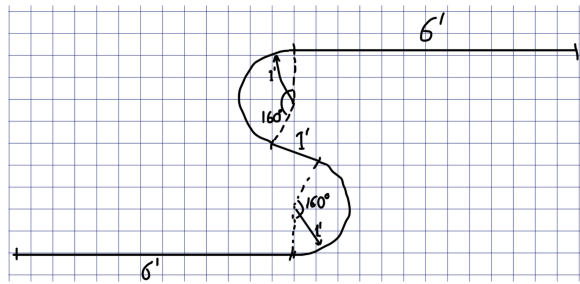
Ordering part number $A(3, 120)$. The arc is defined by radius R in feet, $3ft = 36in$, and angle A in degrees, 120° .

Straight linear run — $L(X)$

Ordering part number $L(20)$. X is the total linear length in feet; $20ft = 240in$

Free design — $F(X)$

Ordering part number $F(17.585)$. X is the total length in feet. This example is $2 \times 6ft$ straight linear, 2 arcs of $1ft$ radius and 160° angle, and $1 \times 1ft$ straight linear connecting the two arcs.



Sketch

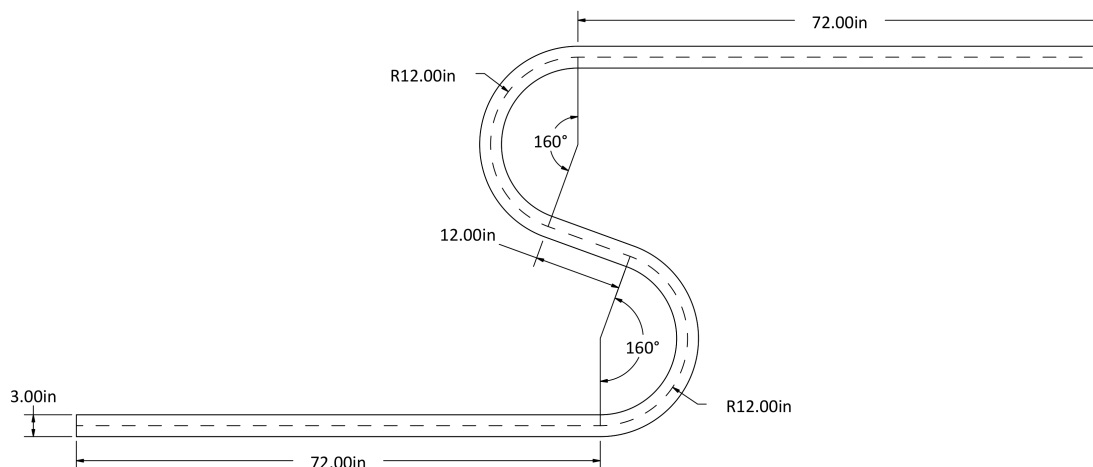
As the customer draws it.



Fixture

As built.

Drawing



Accessories

All accessories required for the design are included with the ordering code.

Suspension and surface mount



Power feed canopy

2 holes, with 6ft suspension wires.



Non power feed canopy

1 hole, with 6ft suspension wire.

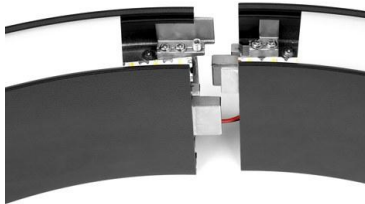


Surface mount screws

Long screws for surface mount.

Each BOA fixture section includes 3 suspension points, 3.94in from each end and at the centre.

Links

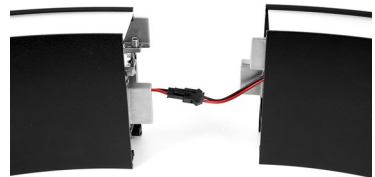


Mechanical link

Joins two fixture sections.



Mechanical link



Electrical link

Carries power across the joint.

Ordered separately



BOA-NR-CANOPY-9IN-KIT-BK

Central canopy kit

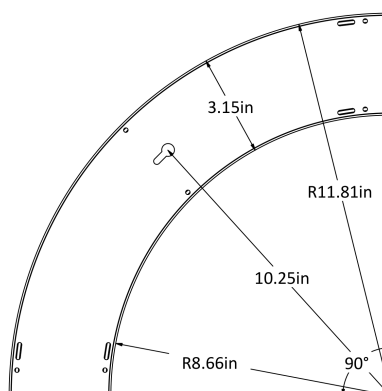
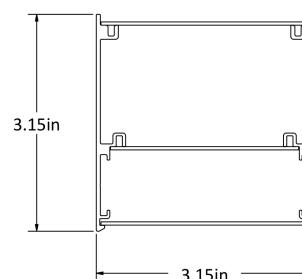
9in diameter, 0.6in high, with 4 x 6ft aircraft cables. Recommended for circles of radius 1, 1.5 or 2ft; the driver can be installed inside it. White: BOA-NR-CANOPY-9IN-KIT-WH.

Dimensions & Photometric Data

Cross section

Aperture	3in
Section	3.15in x 3.15in
Min. arc radius	10.25in · A(0.86ft)
Suspension	3 points per section

Suspension points are 3.94in from each end and at the centre of every fixture section. Installation instructions: [Install Instruction link](#)



Minimum arc — A(0.86ft), inner radius 8.66in, centreline 10.25in, outer 11.81in at 90°.

Lumen Estimate Adjustment Factors

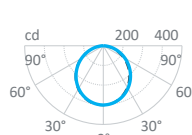
3000K	× 0.94	4000K	× 1	5000K	× 1.03
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Premium (90 CRI). Lumen output varies based on CCT and CRI; multiply by the factor for the CCT ordered.

BOA-NR-40-L(1)-BK

1ft · 4000K · black finish

	ZONE	LUMENS	% FIXTURE
Wattage	11W	0-20°	109.73
CCT	4000K	0-30°	231.70
Distribution	110°	0-40°	377.06
Length	1ft	0-60°	658.76
		0-80°	817.27
		0-90°	833.77



DISTANCE	CENTER Fc	BEAM WIDTH
1.7ft	104	4.9ft
3.3ft	27.7	9.4ft
5.0ft	12.1	14.3ft
6.7ft	6.72	19.1ft
8.3ft	4.38	23.7ft
10.0ft	3.02	28.5ft
Vert. spread		110.0°
Horiz. spread		108.1°

Free Design Sketch

Sketch the design and specify every dimension — lengths, radii and angles — then order it as F(X) with X the total length in feet.

