

STANDARD RANGE

Ultra Flat Optic (UFO)

July, 2021

Given the current increasing demand on zoom solutions and wanting to provide an alternative to already GAGGIONE existing zoom products in both PMMA and Silicone, GAGGIONE is launching a new range of optics.

UF0: presentation

3 references in PMMA

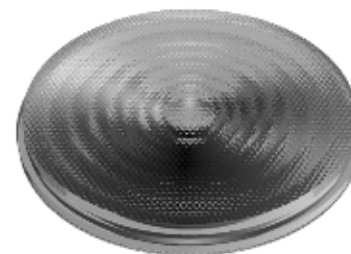
Asymmetric version



UF045A

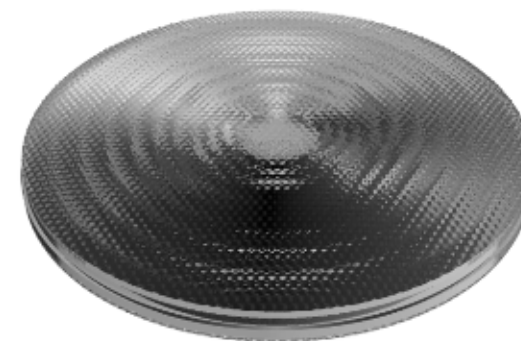
45 mm

Zoom versions



UF045Z

45 mm



UF067Z

67mm

- **Flat design** allowing innovative form factor fixtures.
- **Tunable White** compatibility.
- State of the art **beam homogeneity** on any position.

Visit our [website](#)

UFO: LED specifications

LES size: HP: 28mm² max - COB: Ø 6mm max

Type of LED: high power, COB, CSP based clusters

Type of Led	UF045A	UF045Z
RGBW	✗	✗
Tunable White	✓	✗
Single chip	✓	✓
Multi chip	✓	✓
COB	✓	✓

See more details on page 4

✓ Compatible

✓ To be confirmed by measurements

✗ Not compatible

LES size: HP: 28mm² max - COB: Ø 13mm max

Type of LED: high power, COB, CSP based clusters

Type of Led	UF067Z
RGBW	✗
Tunable White	✓
Single chip	✓
Multi chip	✓
COB	✓

UFO: LED specifications

This compatibility chart is relevant for "full zoom operation".

Compatibility for "static" beam application might be wider.

	WHITE							TUNABLE WHITE		
	High power w/o dome	High power With dome	COB 4mm	COB 6mm	COB 9mm	COB 14mm		Quad Chip	CSP based clusters	« Phospore Line » COB
UF045Z	✓	✓	✓	✓ Fixed beam only	✗	✗	If "White compatible" ➔	✗	✗	✗
UF067Z	✓	✓	✓	✓	✓	✓		✗	✓	✓
UF045A	✓	✓	✓	✓	✗	✗		✓	✓	✓

- ✓ Compatible
- ✓ To be confirmed by measurements
- ✗ Not compatible

UFO: applications

Architectural



Wall washing



Indoor



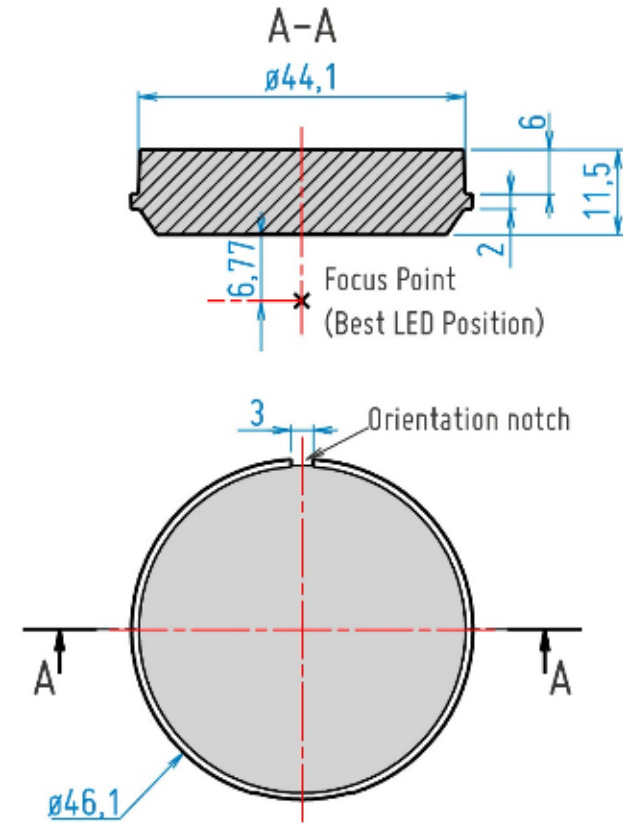
Asymmetric version



UF045A

45 mm

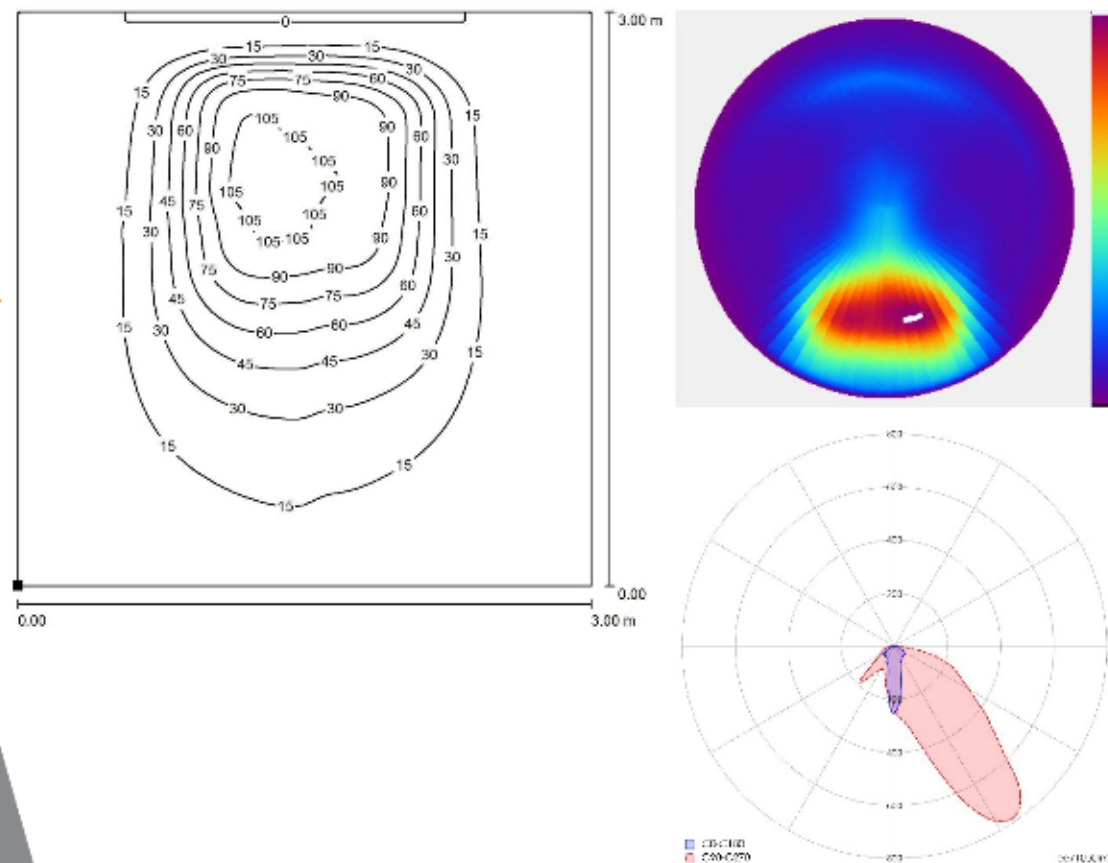
UF045A: Asymmetric version



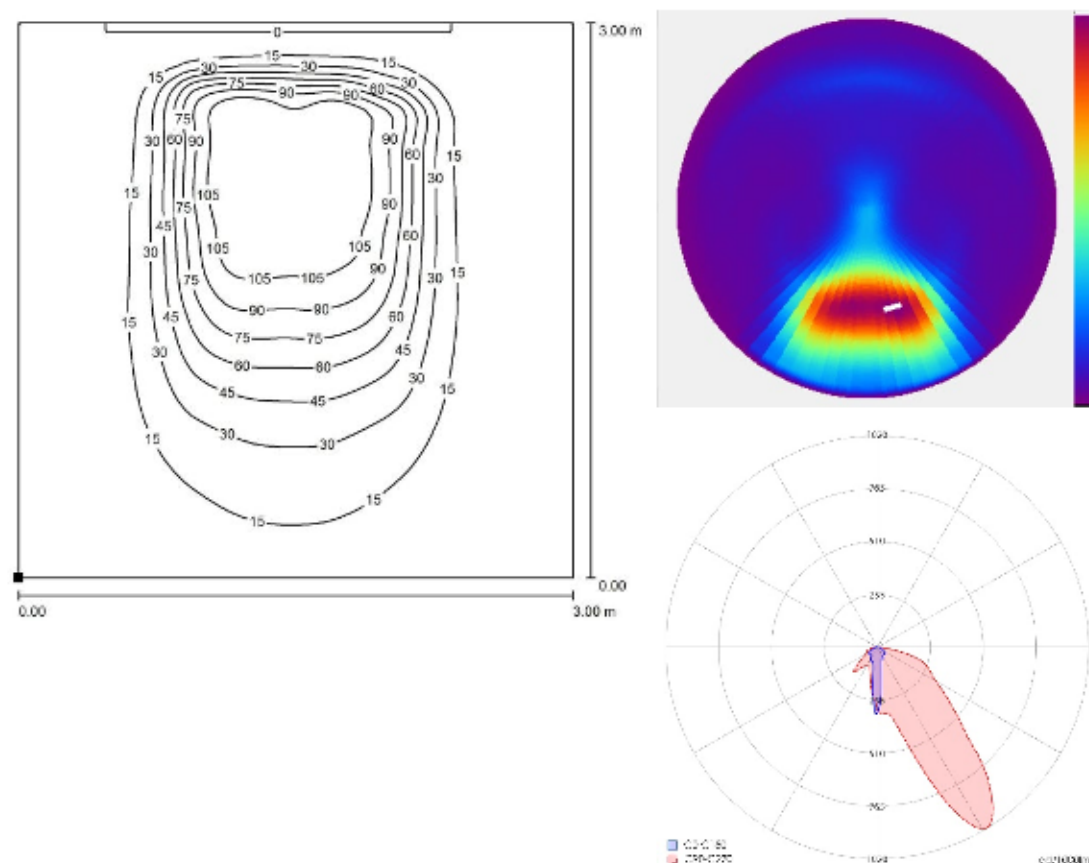
Visit the [product page](#) on our website

UF045A: Illumination & intensity pattern

BRIDGELUX
VESTA 6 TW



CITIZEN
CLU7B2

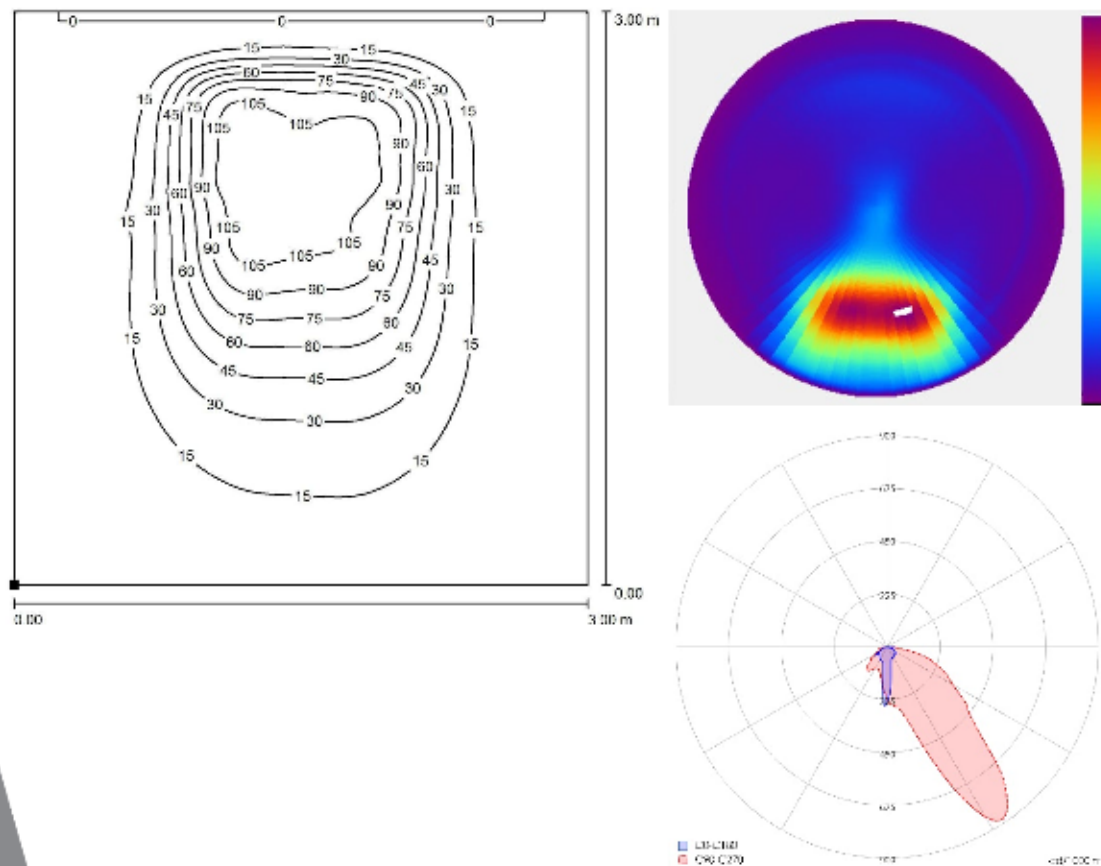


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UF045A: Illumination & intensity pattern

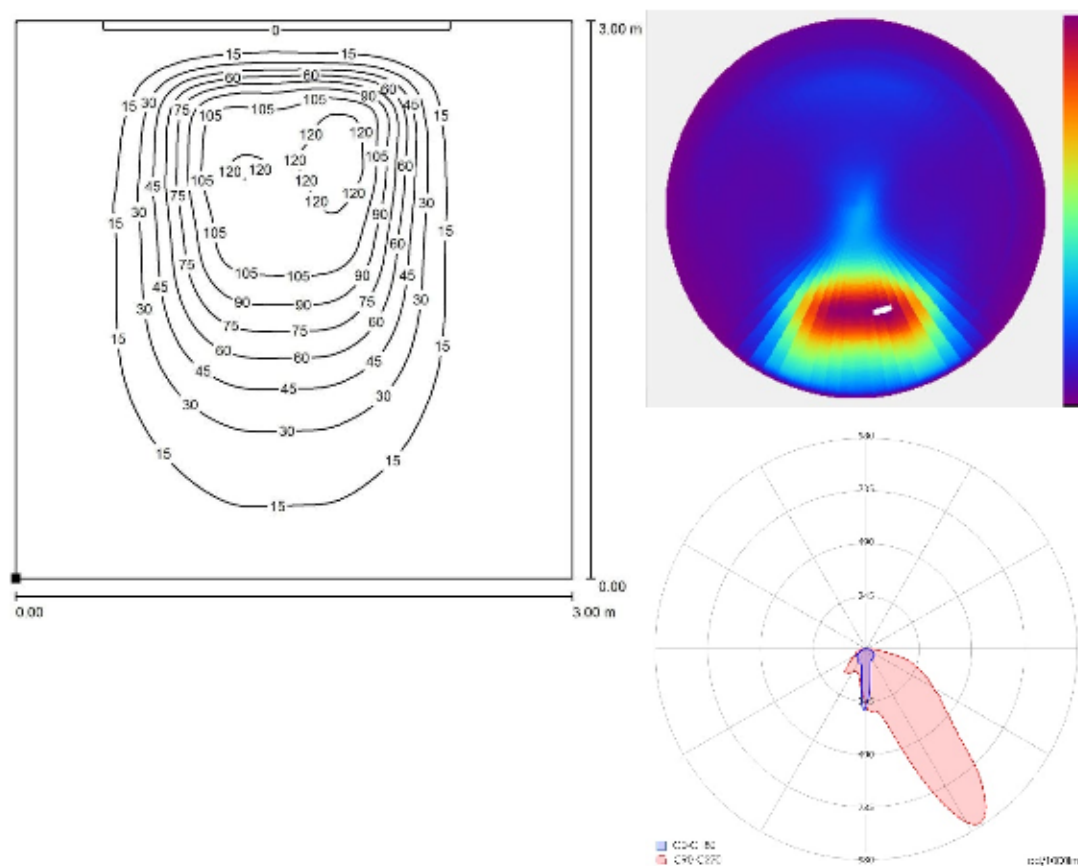
CREE

XHP35.2 HD



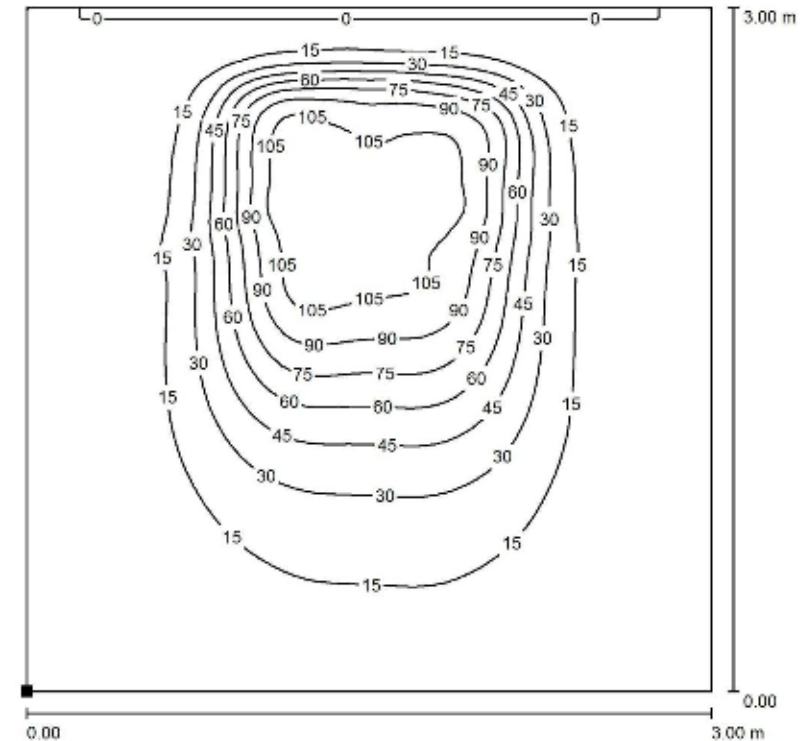
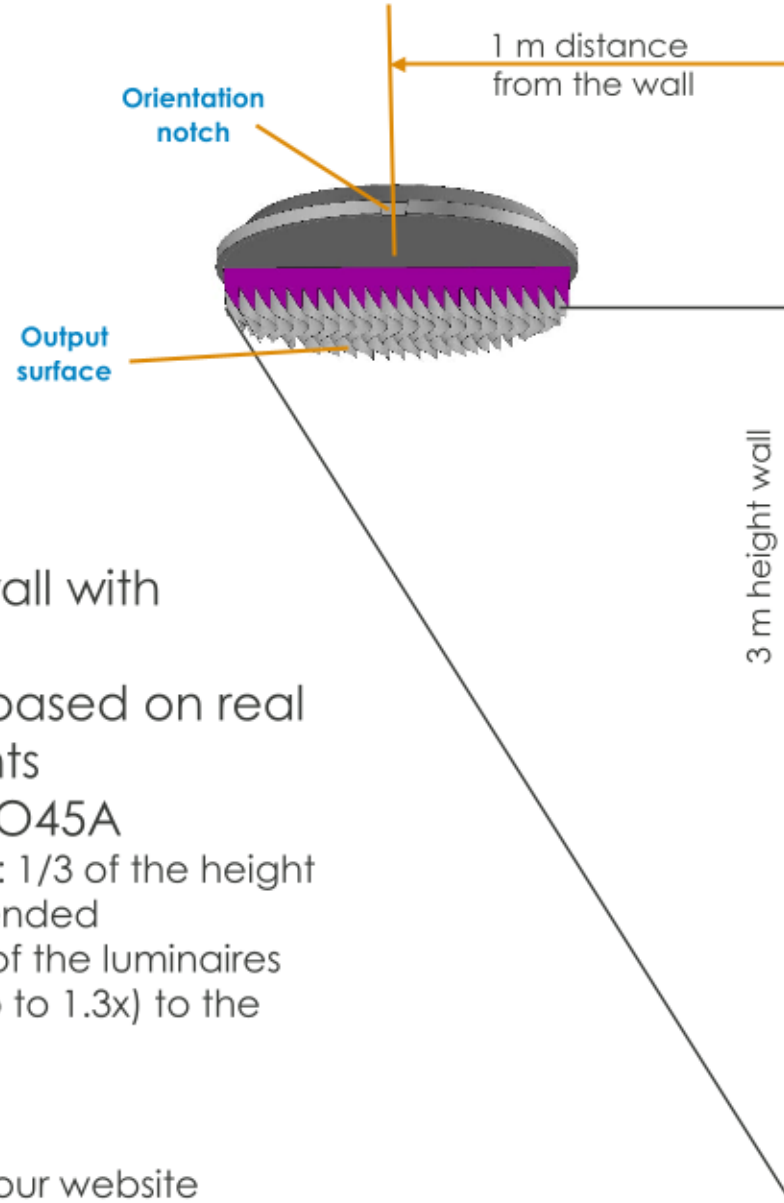
LUMILEDS

LUXEON MZ



Visit the [product page](#) on our website

UF045A: Illumination pattern



Dialux simulation

Values in lux, scale 1 : 32
Distance from wall: 1 m

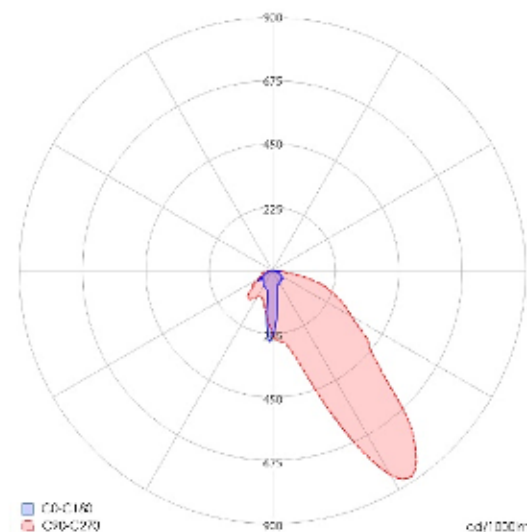
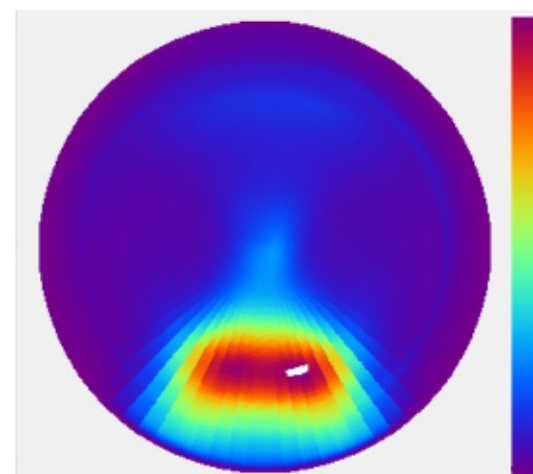
- Isolux curves on the wall with XHP35.2 LED @500 lm
- The isolux curves are based on real physical measurements
- How to implement UFO45A
 - Distance from the wall: 1/3 of the height of the wall is recommended
 - Spacing: the spacing of the luminaires should be equal (or up to 1.3x) to the distance from the wall

[Visit the product page](#) on our website

UF045A: Intensity pattern

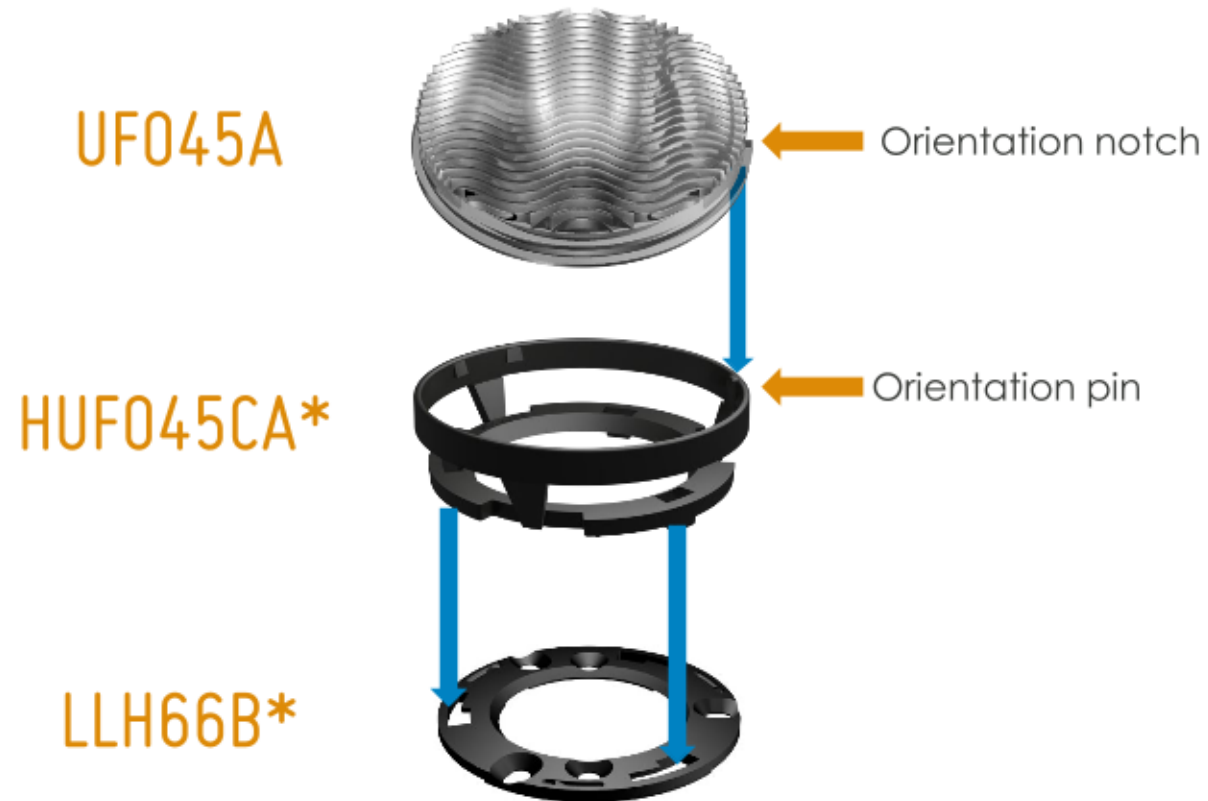
- Polar intensity distribution
- LED XHP35.2 HD
- The isolux curves are based on real physical measurements

CHARACTERISTICS	UF045A
L.O.R front (wall)	58.2%
L.O.R rear (stray light)	15.7%
Intensity peak front	941cd/klm
Intensity peak backwards	154cd/klm
Illuminance pattern	rectangular

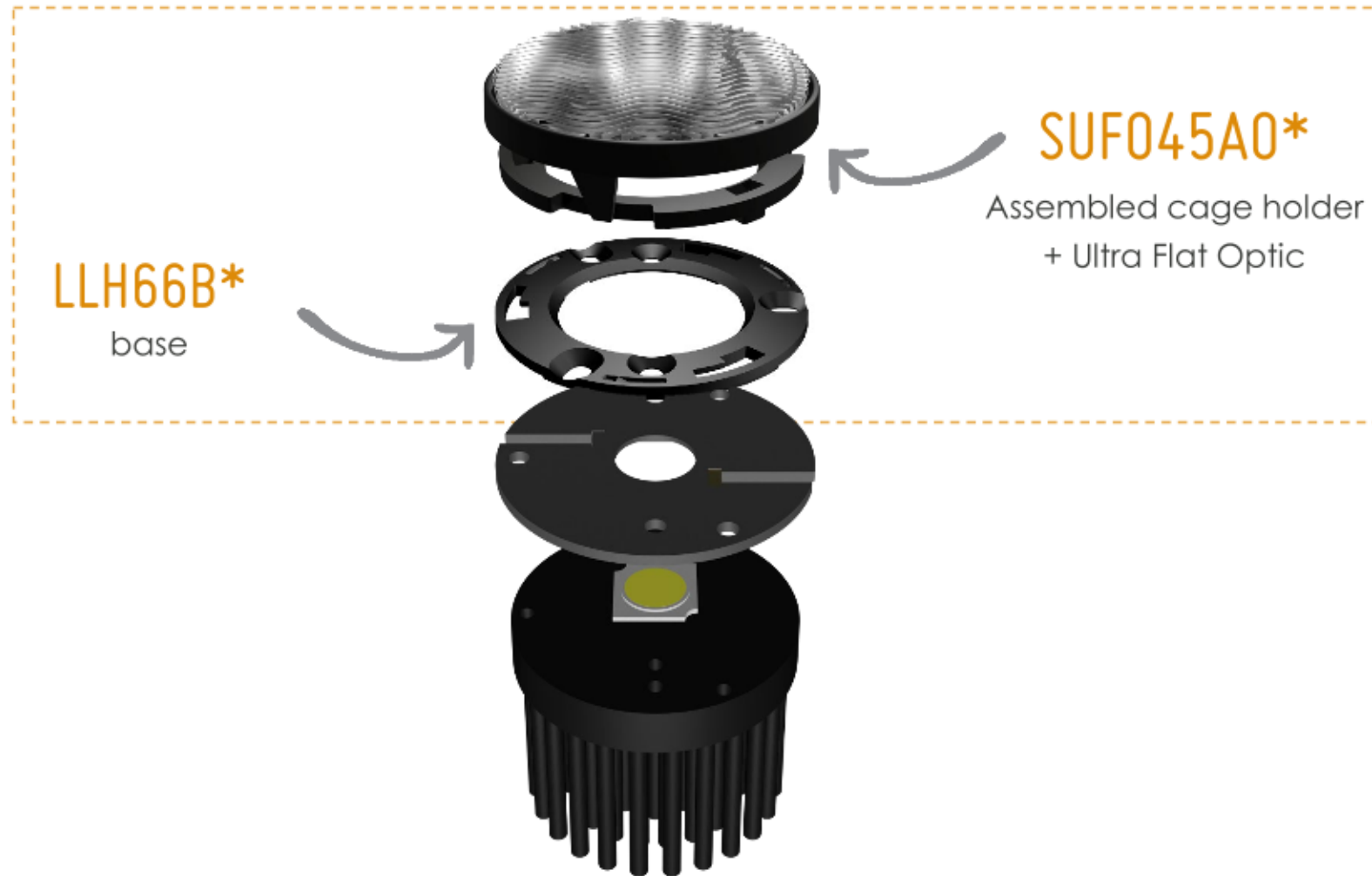


Visit the [product page](#) on our website

UF045A: Mechanical system



UF045A: Mechanical system



More information about [LLH66B*](#)

UF045A: compatible holders

HUF045CA0*



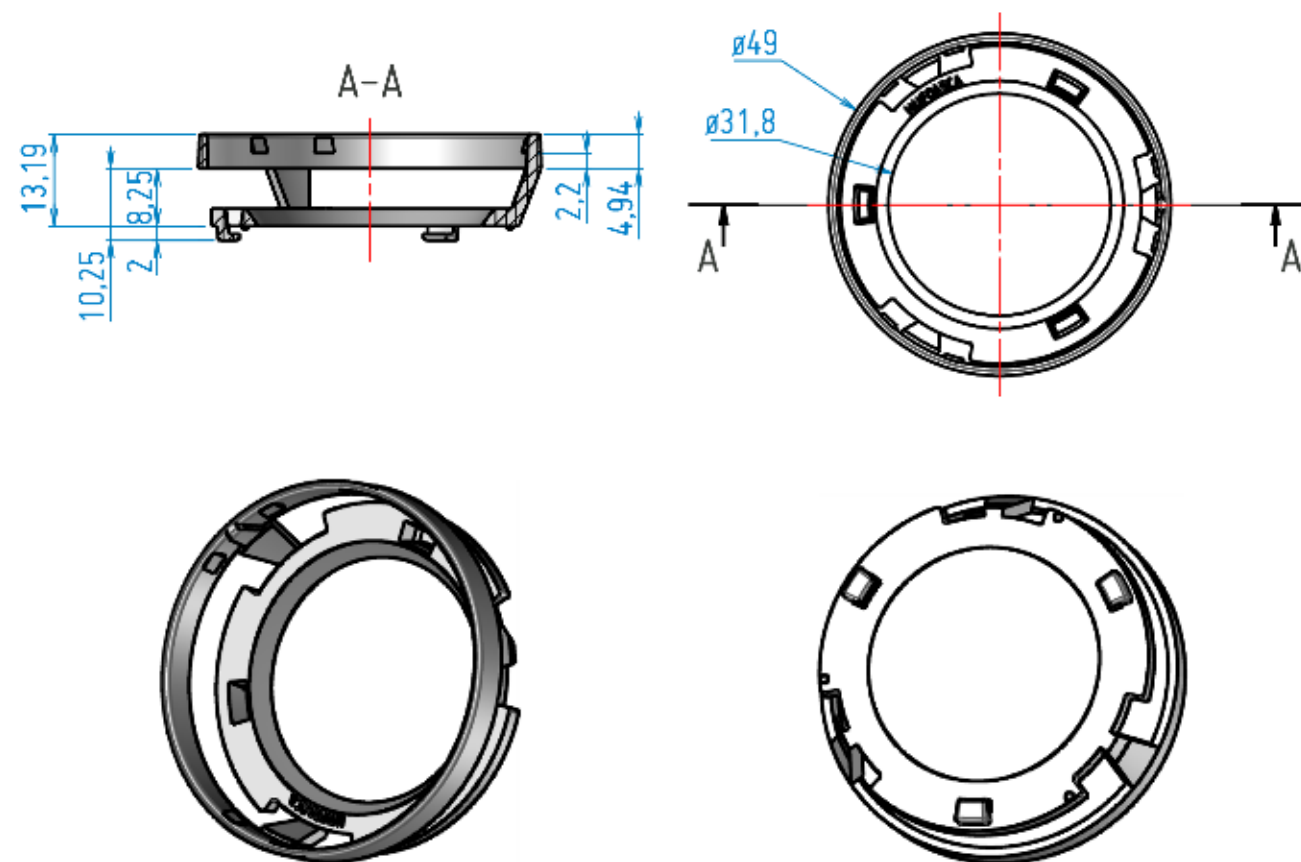
Clear holder

HUF045CA00



Black holder

HUF045CA02



* : colors 0 (clear), 2 (black)

If you need another color of holder, please [contact us](#)

All dimensions are in millimeters.

General tolerance ± 0.1 mm (standard NF T 58-000 cat. 4, reduced class).

UF045A: base options

2 base options

Base Reference	Picture	COB Holder Manufacturer	Manufacturer References
LLH66B1*		Bender + Wirth	LED HOLDER SERIES 430 + 630
LLH66B1*		PCB mounted High power LED	
LLH66B4*		TE	LUMAWISE Z35

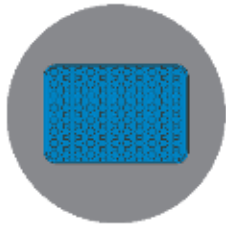
* : colors 0 (clear), 2 (black)

If you need another color of holder, please [contact us](#)

UF045A: Part numbers

Reference	Clear	Black
SET Ultra Flat Optic UFO45A + Holder HUFO45CA	SUFO45A00	SUFO45A02
HOLDER UFO ASYMMETRIC 45	HUFO45CA00	HUFO45CA02
BASE UFO ASYMMETRIC 45 B+W	LLH66B100	LLH66B102
BASE UFO ASYMMETRIC 45 TE	LLH66B400	LLH66B402

UF045A

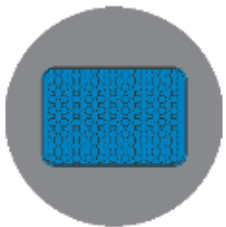


8 thermoformed trays with 24 parts each



192 parts
Box: GALIA A13 – 387x283x170 mm
Weight: 4.0 kg

SUF045A0*



8 thermoformed trays with 24 parts each



192 parts
Box: GALIA A13 – 387x283x170 mm
Weight: 4.6 kg

UF045A: Packaging

HUF045CA0*



48 parts in plastic bag
Weight: 0.5 kg

LLH66B*



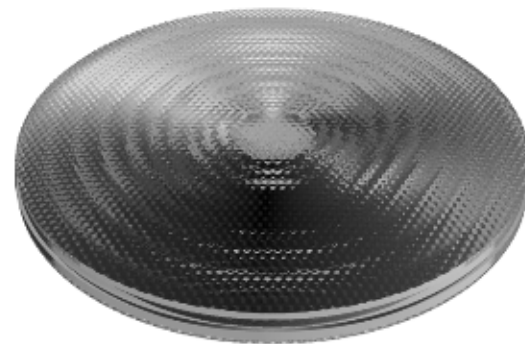
56 parts in plastic bag
Weight: 1.1 kg

Zoom versions



UF045Z

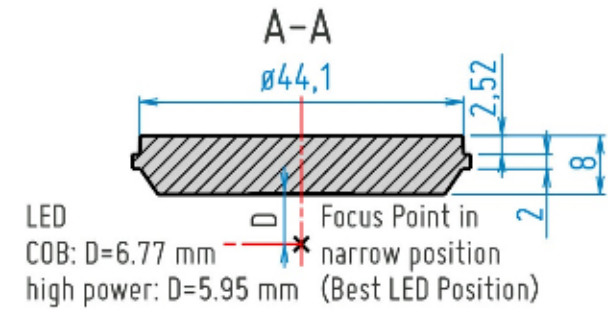
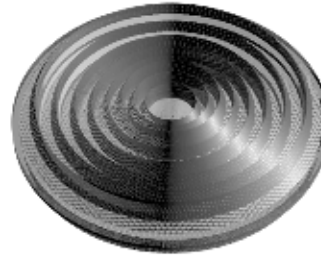
45 mm



UF067Z

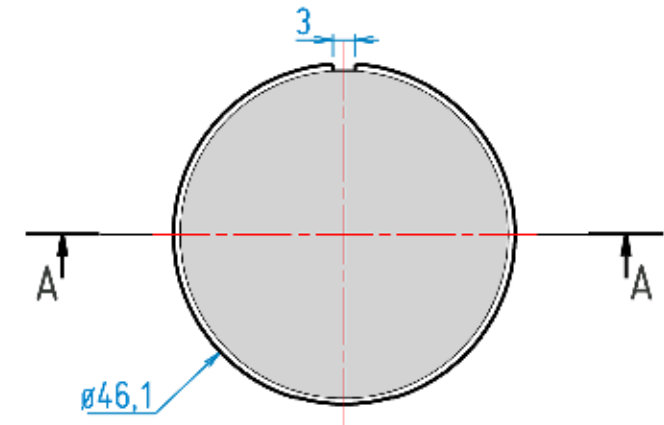
67 mm

UF045Z: Zoom beam



Compatibility matrix

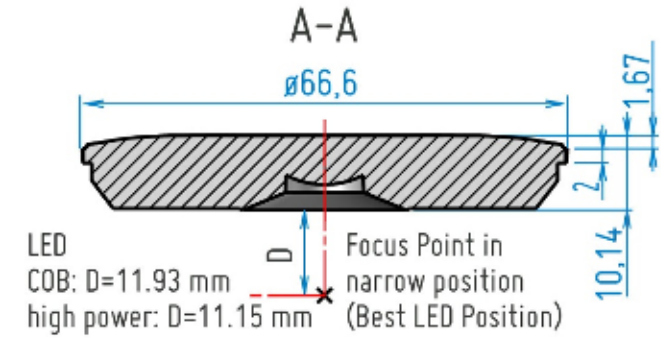
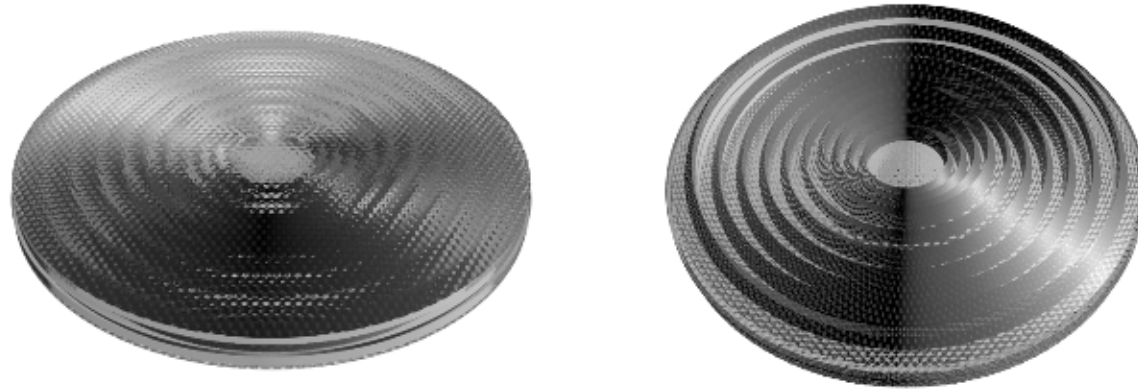
	BRIDGELUX	CITIZEN	CREE	LUMILEDS
UF045Z	VESTA 6 TW	CLU7B2	XHP35.2 HI	LUXEON MZ
FWHM (°)	17.4 – 43.9	14.1 – 37.5	13.9 – 35.2	13.6 – 48.2
FWTM (°)	32.9 – 66.0	25.2 – 52.3	24.7 – 51.0	24.4 – 65.8
Efficacy (cd/lm)	6.1 – 1.5	9.7 – 2.3	9.5 – 2.4	10.4 – 1.3
CCI*	2.3	-	-	-



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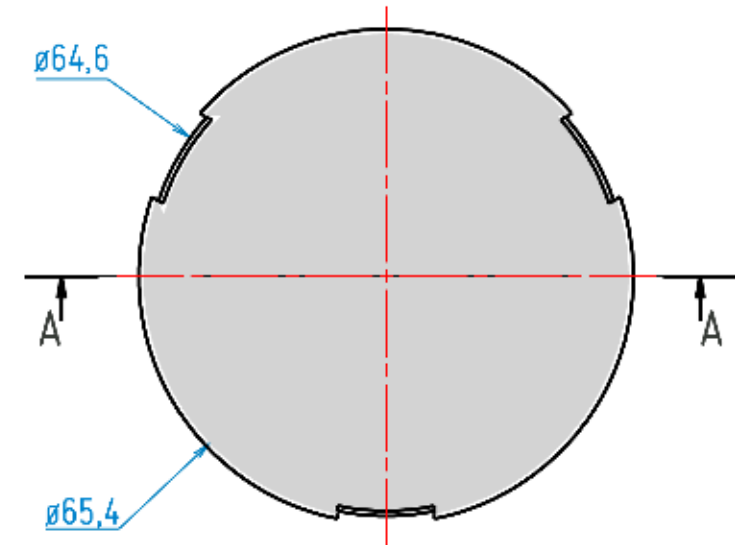
*CCI: Color Consistency Index, [more information](#)

UF067Z: Zoom beam



Compatibility matrix

	BRIDGELUX	CITIZEN	CREE	LUMILEDS
UF067Z	VESTA 6 TW	CLU7B2	XHP35.2 HI	LUXEON MZ
FWHM (°)	13.9 – 44.1	12.2 – 36.5	12.2 – 35.6	11.3 – 50.3
FWTM (°)	25.6 – 60.1	22.3 – 50.4	22.4 – 48.9	21.6 – 65.7
Efficacy (cd/lm)	9.4 – 1.7	11.3 – 2.4	10.8 – 2.4	13.4 – 1.4
CCI*	1.3	-	-	-

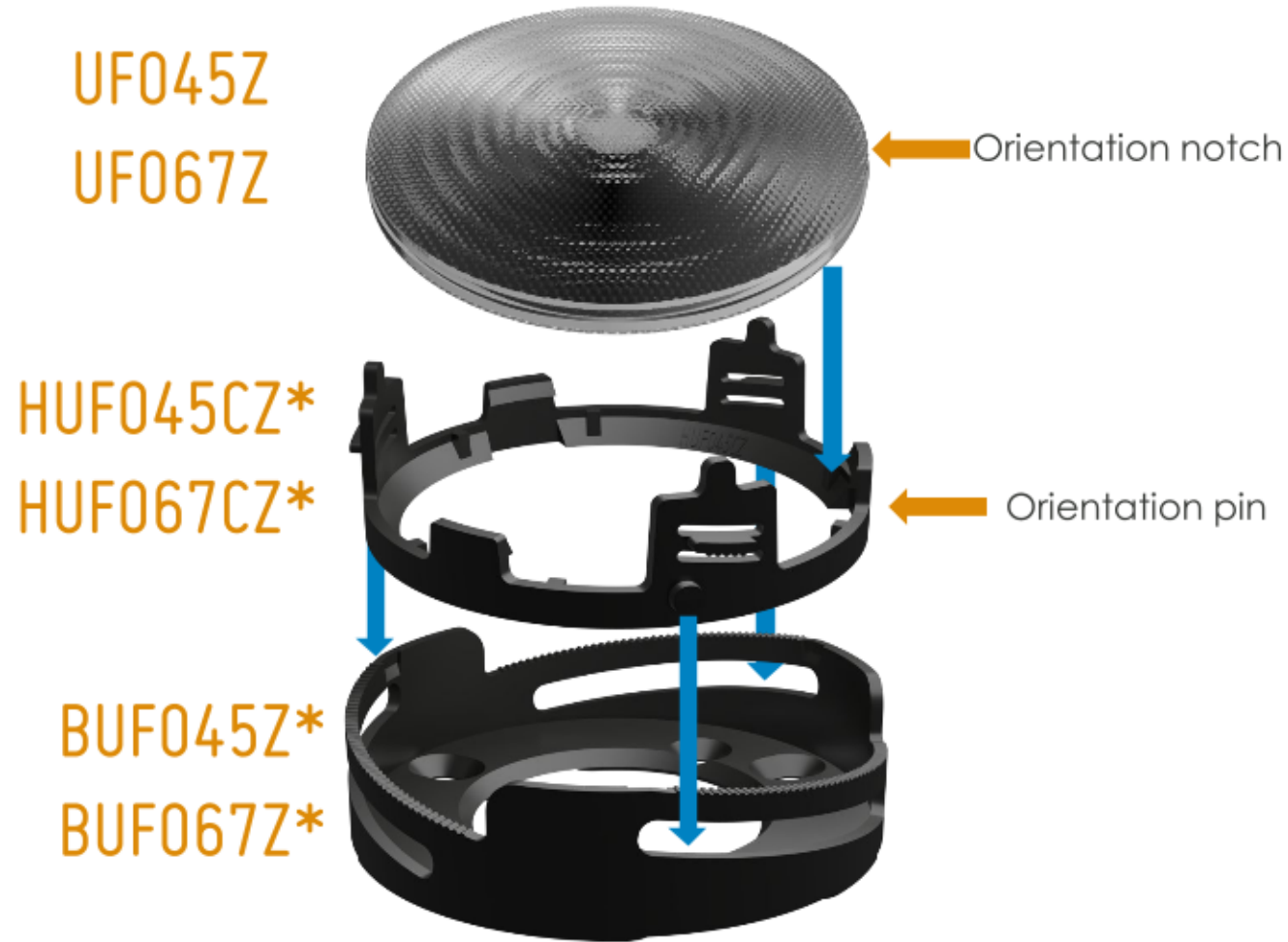


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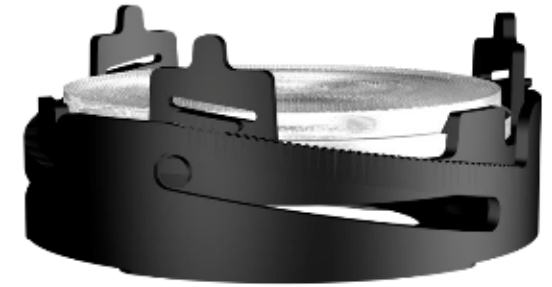
*CCI: Color Consistency Index, [more information](#)

UF0**Z: Mechanical zoom system

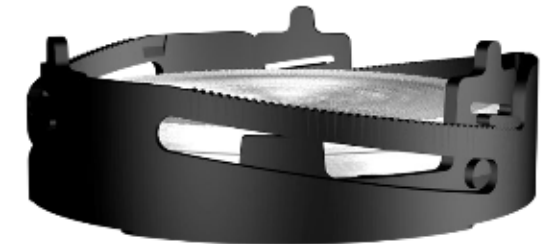
Mechanical zoom system



Narrow position



Wide position

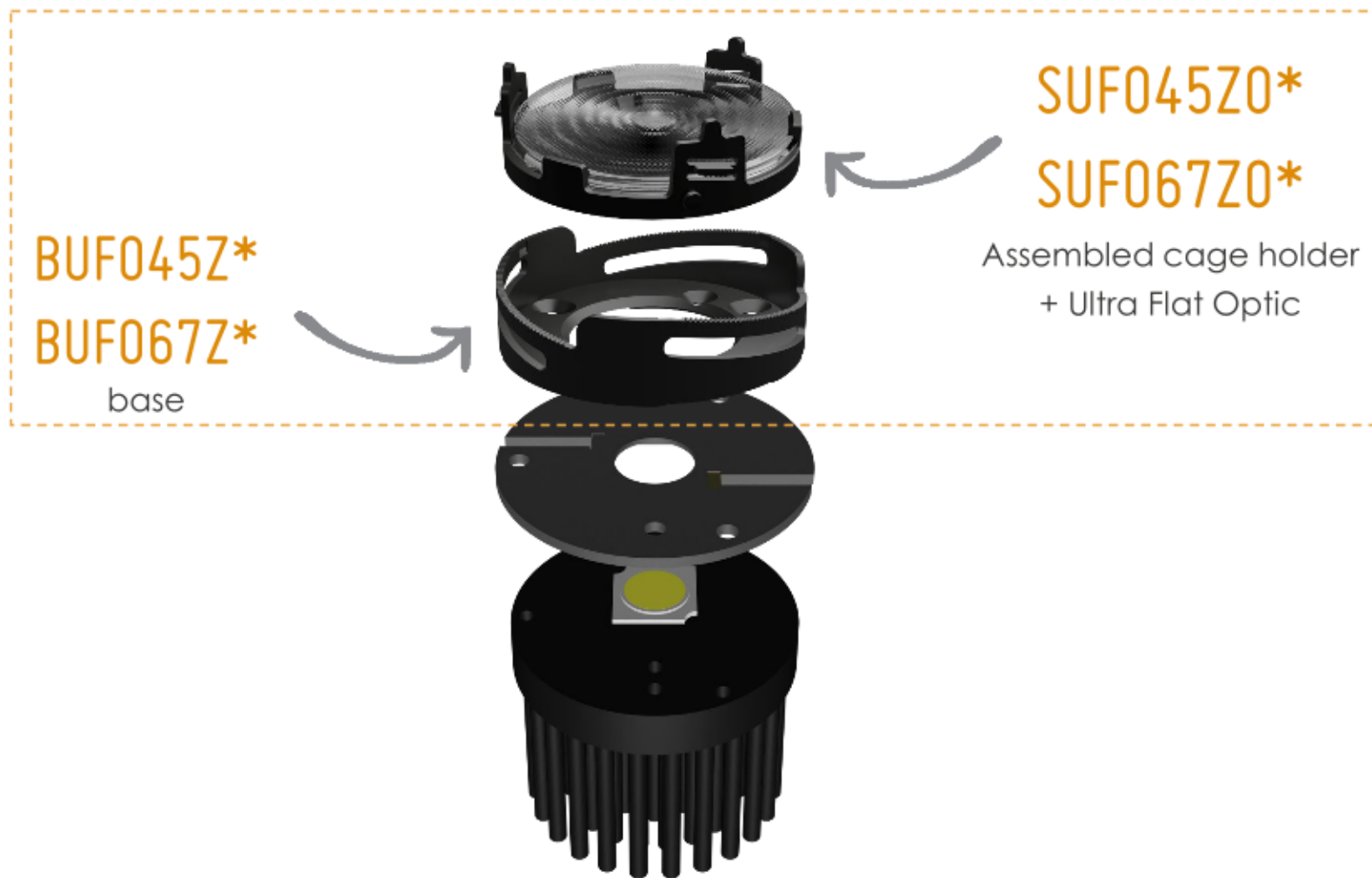


Distance between narrow and wide positions

UF045Z: 6 mm

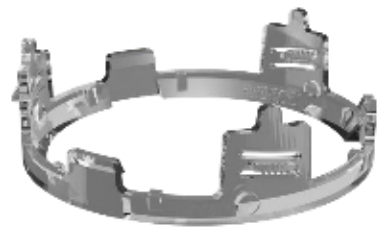
UF067Z: 9 mm

UF0**Z: Mechanical zoom system



UF045Z: compatible holders

HUF045CZ0*



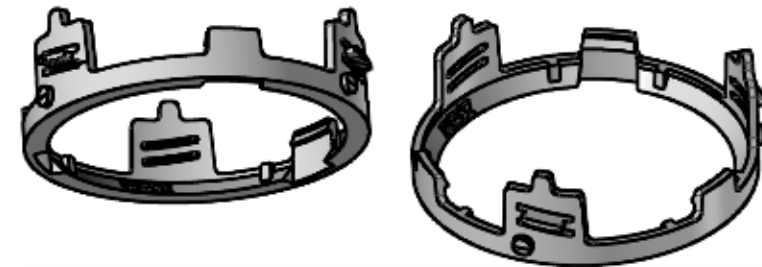
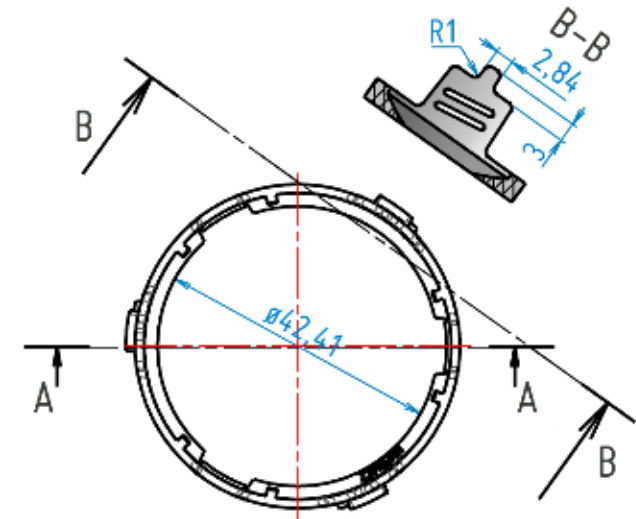
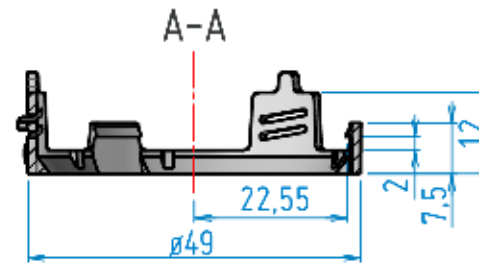
Clear holder

HUF045CZ00



Black holder

HUF045CZ02



* : colors 0 (clear), 2 (black)

If you need another color of holder, please [contact us](#)

All dimensions are in millimeters.

General tolerance ± 0.1 mm (standard NF T 58-000 cat. 4, reduced class).

UF067Z: compatible holders

HUF067CZ0*



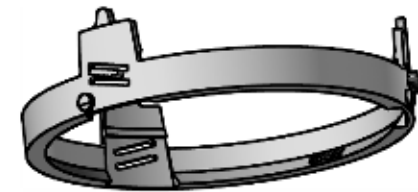
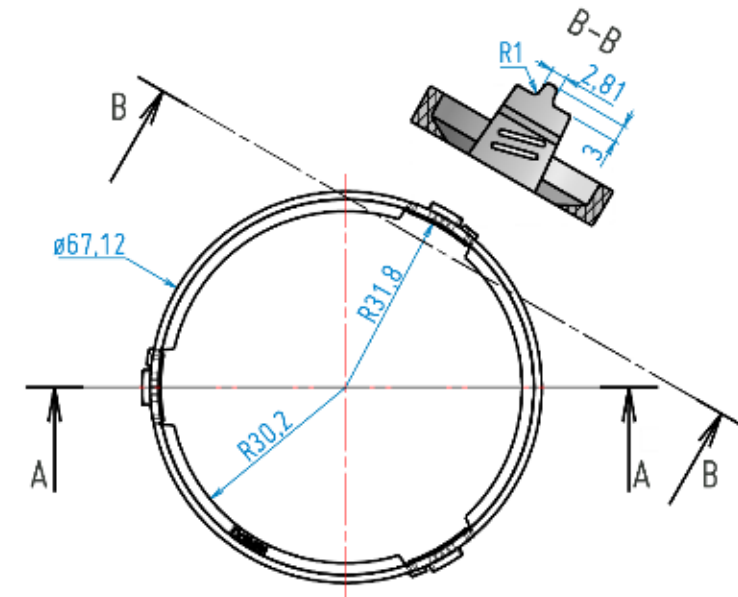
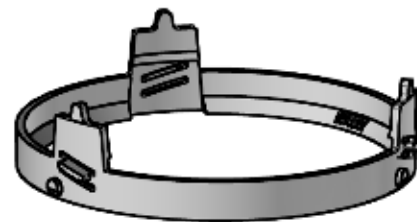
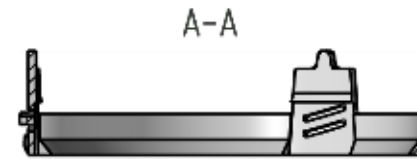
Clear holder

HUF067CZ00



Black holder

HUF067CZ02



* : colors 0 (clear), 2 (black)

If you need another color of holder, please [contact us](#)

All dimensions are in millimeters.

General tolerance ± 0.1 mm (standard NF T 58-000 cat. 4, reduced class).

UF045Z : base options

1 base option

Base Reference	Picture	COB Holder Manufacturer	Manufacturer References
BUFO45Z10*		Bender + Wirth	LED HOLDER SERIES 430 + 630
BUFO45Z10*		PCB mounted high power LED	

* : colors 0 (clear), 2 (black)

If you need another color of holder, please [contact us](#)

UF067Z : base options

3 base options

Base Reference	Picture	COB Holder Manufacturer	Manufacturer References
BUFO6Z10*		Bender + Wirth	LED HOLDER SERIES 430 + 630
BUFO67Z10*		PCB mounted high power LED	
BUFO67Z20*		Bridgelux	Vero10
BUFO67Z30*		Xicato	All

* : colors 0 (clear), 2 (black)

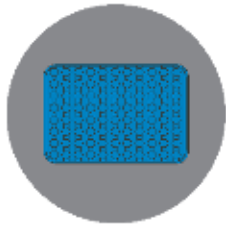
If you need another color of holder, please [contact us](#)

UFOxxZ: Part numbers

Reference	Clear	Black
SET Ultra Flat Optic UFO45Z + Holder HUFO45CZ	SUFO45Z00	SUFO45Z02
SET Ultra Flat Optic UFO67Z + Holder HUFO67CZ	SUFO67Z00	SUFO67Z02
HOLDER UFO ZOOM 45	HUFO45CZ00	HUFO45CZ02
HOLDER UFO ZOOM 67	HUFO67CZ00	HUFO67CZ02
BASE UFO ZOOM 45 B+W	BUFO45Z100	BUFO45Z102
BASE UFO ZOOM 67 B+W	BUFO67Z100	BUFO67Z102
BASE UFO ZOOM 67 BRIDGE	BUFO67Z200	BUFO67Z202
BASE UFO ZOOM 67 XICATO	BUFO67Z300	BUFO67Z302

UF045Z: Packaging

UF045Z

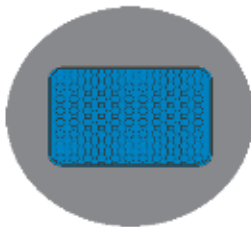


8 thermoformed trays with 24 parts each



192 parts
Box: GALIA A13 – 387x283x170 mm
Weight: 3.2 kg

SUF045Z0*



8 thermoformed trays with 24 parts each



192 parts
Box: GALIA A13 – 387x283x170 mm
Weight: 4.6 kg

HUF045CZ0*



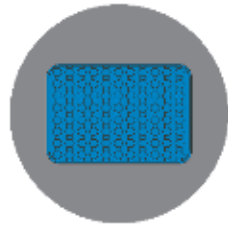
48 parts in plastic bag
Weight: 0.5 kg

BUF045Z*



48 parts in plastic bag
Weight: 0.5 kg

UF067Z

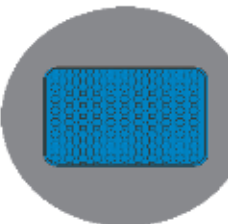


8 thermoformed trays with 12 parts each



96 parts
Box: GALIA A13 – 387x283x170 mm
Weight: 3.6 kg

SUF067Z0*



8 thermoformed trays with 12 parts each



96 parts
Box: GALIA A13 – 387x283x170 mm
Weight: 4.3 kg

UF067Z: Packaging

HUF067CZ0*



48 parts in plastic bag
Weight: 0.5 kg

BUF067Z*



48 parts in plastic bag
Weight: 0.5 kg

Code form standard range

LENS

OPTICAL

01: 16 mm
02: 16 mm
12: 16 mm
22: 16 mm RGBW
05: 32 mm
15: 32 mm
25: 32 mm RGBW
07: 35 mm
45: 45 mm UFO
49: 45 mm RGBW
59: 45 mm RGBW gen 2
56: 67mm in PMMA
66: 67 mm in silicone
76: 67mm in silicone
67: 67 mm UFO

PRODUCT

LLC: Collimator
LLH: Holder
LLL: Linear collimator
LLR: Reflector
LLS: Set
UFO: Ultra Flat Optic

BEAM ANGLE

U/R: Ultra Narrow
N: Narrow
M: Medium
W: Wide
X: Extra large
S: Super large
L: Large
V: Very large
E: Elliptical
Z: Zoom

MATERIAL

0 or nothing : PMMA
1: PC
2: PC anti-UV
7: Silicone

LLS01W01ABC001

ABC: Holder type according to LED package

COLORS & DECORS

0: Translucent
1: White
2: Black

ADHESIVE OPTION

1: Yes
Nothing: No

VERSION

TYPE

1: 16mm
2: 32mm
3: 3x16mm
4: 4x16mm
9: 45mm

HOLDER

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