

# A.39 & Sharp refractive emission family

Carlotta de Bevilacqua

**Artemide®**



**A.39 & Sharp  
refractive emission  
family**

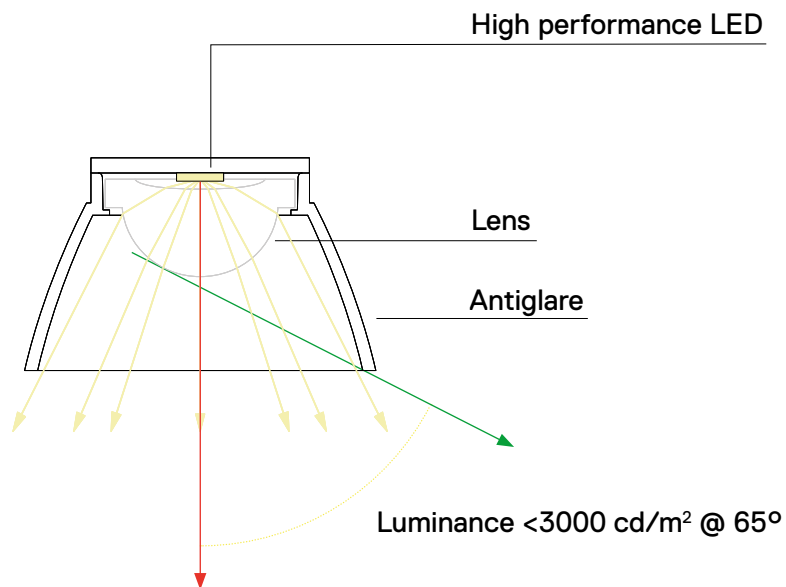
# Refractive technology

The lens is especially designed to intercept 100% of the flux emitted by the LED and control it with minimum dispersion so as to ensure more than 90% efficiency.

The lens is the primary optical system that collects and redirects the flux without intercepting the geometry of the cell in which it is inserted, thus avoiding a deterioration in performance in terms of quantity and quality of light emission.

The small cells (louvres), in which the LEDs and lenses are inserted, act only as screens to avoid direct viewing of the LED from certain angles but do not affect the flux emitted, leaving a clean, pure light, whose characteristics are defined solely by the primary optics.

→ PATENT OF INVENTION: OPTICS



## **REFRACTIVE LENS**

collects 100% of the LED luminous flux

### **Extreme Efficiency**

more than 90%

### **Extreme Efficacy**

up to 164 lm/W

### **Extreme glare control**

UGR  $< 16$

Refractive emission's patented optical technology was developed to achieve maximum efficiency on a small scale, in compliance with the regulation for the lighting of workspaces.

The refractive technology therefore guarantees a perfect glare-free perception, with illuminance levels that are compliant with the requested ones for office spaces.

# Refractive emission

→ PATENT OF INVENTION: OPTICS



Artemide  
App



## REFRACTIVE TECHNOLOGY

High power & performance

### Extreme Efficiency

more than 90%

### High Efficacy

up to 154 lm/W

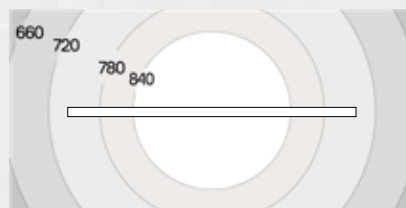
### Extreme glare control

UGR < 16

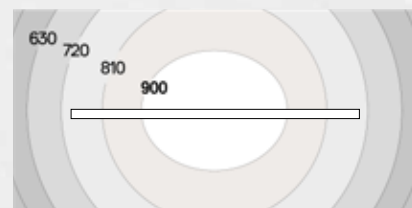
### CRI 90

### Good Uniformity

Ideal for double height spaces



A.39 Sharp refractive emission - black louvres  
1184 mm - direct only  
Installation h 3200 mm - Desk h 750 mm  
Isolines (lx) on a desk 1600x800 mm



A.39 Sharp refractive emission - white louvres  
1184 mm - direct only  
Installation h 3200 mm - Desk h 750 mm  
Isolines (lx) on a desk 1600x800 mm

# Micro refractive emission

→ PATENT OF INVENTION: OPTICS



Artemide  
App





## MICROREFRACTIVE TECHNOLOGY

High performance

### Extreme Efficiency

more than 90%

### Extreme Efficacy

up to 164 lm/W

### High Glare Control

UGR < 19

### CRI 90

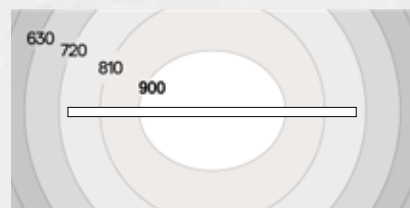
### High uniformity

no multi-shadows

Ideal for light perception



A.39 Sharp microrefractive emission - black louvers  
1184 mm - direct only  
Installation h 2400 mm - Desk h 750 mm  
Isolines (lx) on a desk 1600x800 mm



A.39 Sharp microrefractive emission - white louvers  
1184 mm - direct only  
Installation h 2400 mm - Desk h 750 mm  
Isolines (lx) on a desk 1600x800 mm

# A.39 Sharp



**refractive**

**micro  
refractive**



→ CEILING



A.39 ceiling direct emission  
(1184 mm)

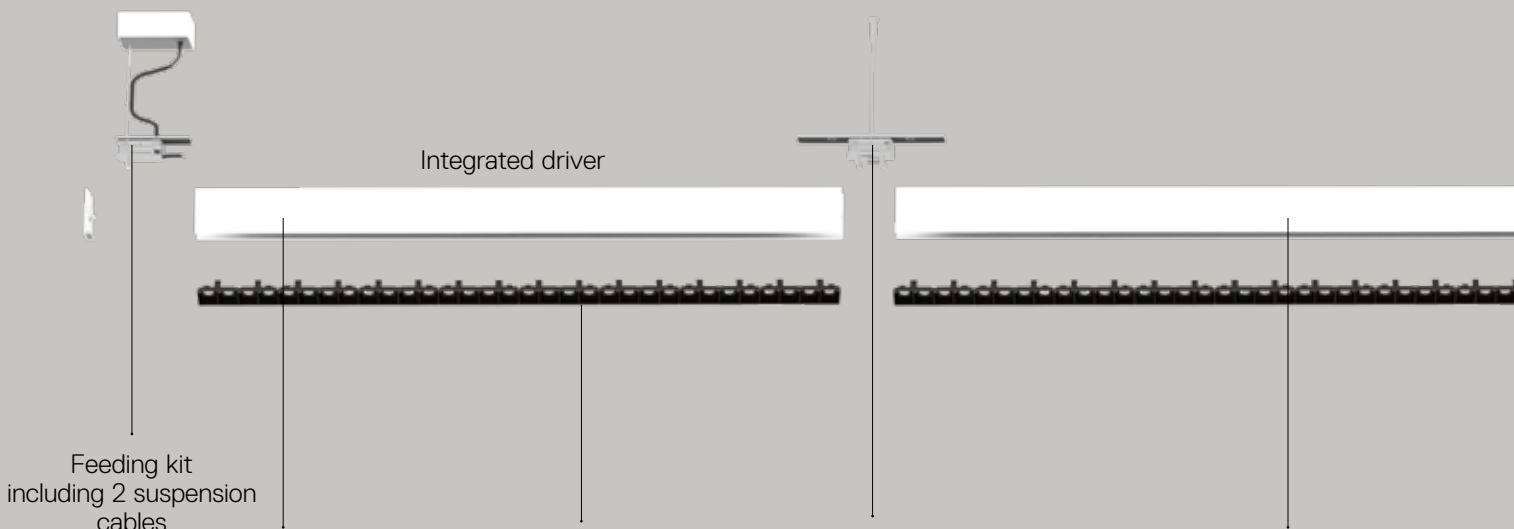
Louvres  
(1184 mm)

Ceiling bracket  
and mechanical joint

A.39 ceiling direct emission  
(2368 mm)

# A.39 Sharp refractive emission ceiling, suspension

→ SUSPENSION



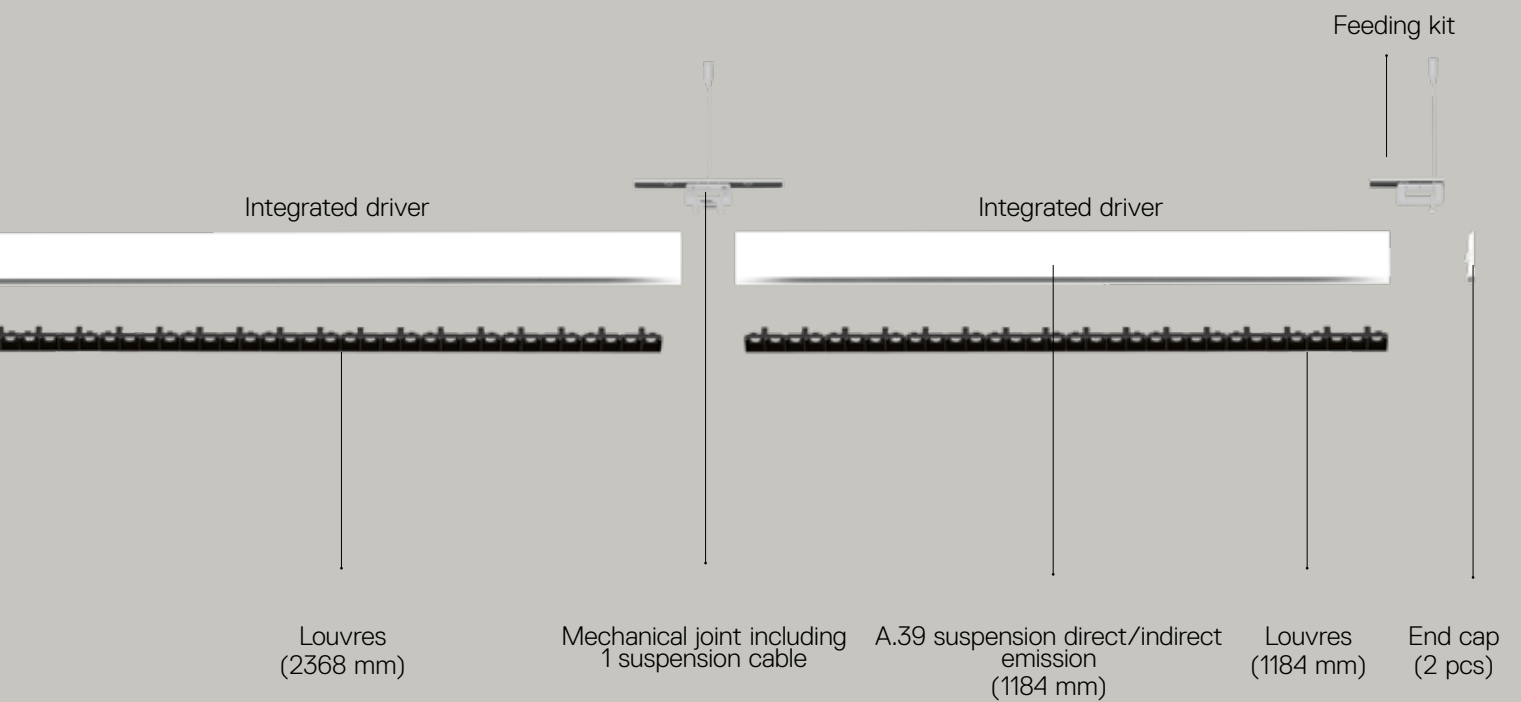
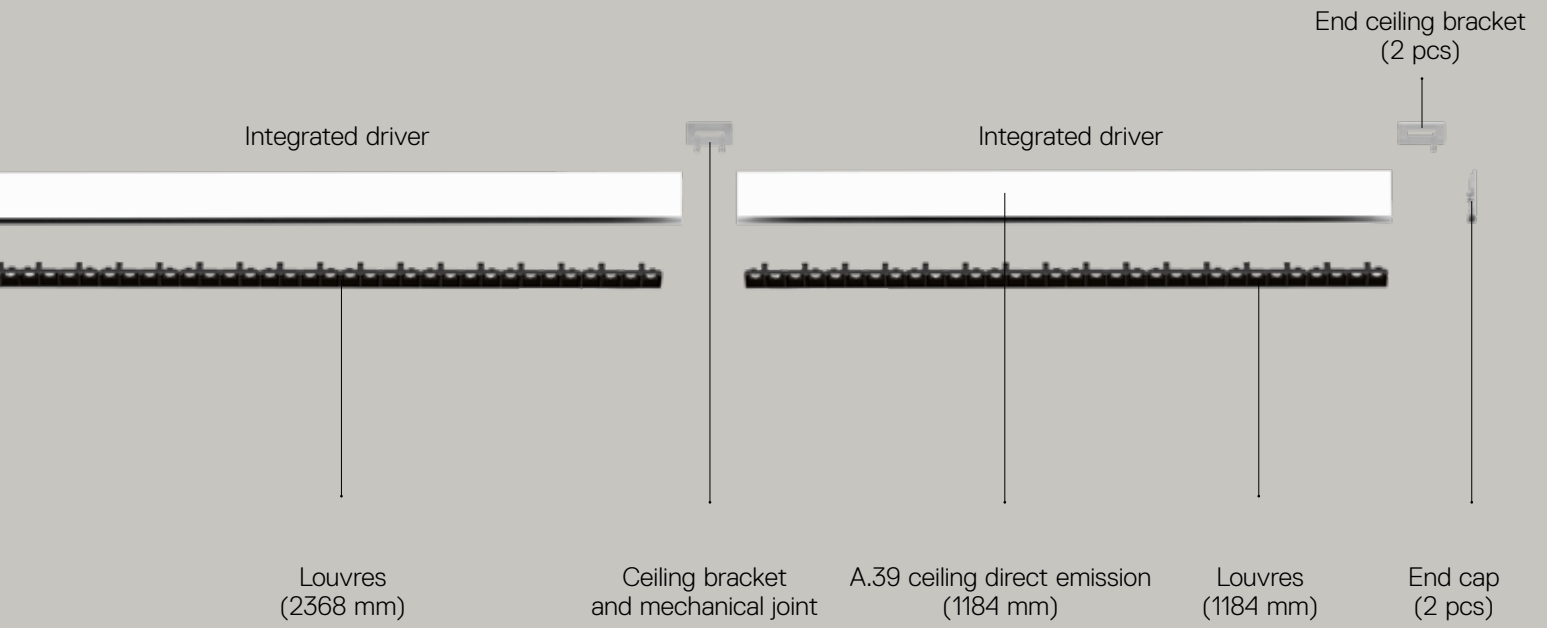
Feeding kit  
including 2 suspension  
cables

A.39 suspension direct/indirect  
emission  
(1184 mm)

Louvres  
(1184 mm)

Mechanical joint including  
1 suspension cable

A.39 suspension direct/indirect  
emission  
(2368 mm)



# A.39 Sharp space fittings

REFRACTIVE EMISSION

CEILING

SUSPENSION

SUSPENSION WITH  
INDIRECT EMISSION



MICROREFRACTIVE EMISSION

CEILING

SUSPENSION






SUSPENSION WITH  
INDIRECT EMISSION







## A.39 SHARP REFRACTIVE EMISSION

White	Black	Silver	WF	Louvres supplied separately.	MacAdam 3SDCM	IP20
				Optional Artemide App interface supplied separately.	Life L70 (8K) 50000h	
<b>01</b>	<b>04</b>	<b>05</b>		The App driver can not be controlled by DALI dimming system and viceversa.	CRI 90	
					* Uses 1 DALI address	
					** Uses 2 DALI addresses	
					*** Uses 3 DALI addresses	

### Suspension, ceiling direct emission

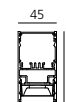
Length	W	Beam	Flux <sup>1</sup>	CCT
1184 mm	35W	WF	4484 lm 4721 lm	3000K 4000K
1482 mm	43W	WF	5605 lm 5901 lm	3000K 4000K
2368 mm	70W	WF	8968 lm 9442 lm	3000K 4000K
2960 mm	86W	WF	11210 lm 11802 lm	3000K 4000K

### Undimmable

Code
<b>BZ010.</b> 01/04/05
<b>BZ011.</b> 01/04/05
<b>BZ013.</b> 01/04/05
<b>BZ014.</b> 01/04/05
<b>BZ016.</b> 01/04/05
<b>BZ017.</b> 01/04/05
<b>BZ019.</b> 01/04/05
<b>BZ020.</b> 01/04/05

### Dimmable DALI

Code
<b>BZ022.</b> 01/04/05 *
<b>BZ023.</b> 01/04/05 *
<b>BZ025.</b> 01/04/05 *
<b>BZ026.</b> 01/04/05 *
<b>BZ028.</b> 01/04/05 **
<b>BZ029.</b> 01/04/05 **
<b>BZ031.</b> 01/04/05 **
<b>BZ032.</b> 01/04/05 **



<sup>1</sup> Direct luminous flux: measured using black louvres.  
With white louvres +10% output flux.

### Suspension direct + indirect emission

Length	W	Beam	Flux <sup>1</sup>	CCT
1184 mm	35W direct 23W indirect	WF	4484 lm direct 3075 lm indirect	3000K 4000K
1482 mm	43W direct 31W indirect	WF	3075 lm direct 5605 lm indirect	3000K 4000K
2368 mm	70W direct 50W indirect	WF	8968 lm direct 5901 lm indirect	3000K 4000K
2960 mm	86W direct 67W indirect	WF	11210 lm direct 6150 lm indirect	3000K 4000K

### Undimmable

Code
<b>BZ034.</b> 01/04/05
<b>BZ035.</b> 01/04/05
<b>BZ037.</b> 01/04/05
<b>BZ038.</b> 01/04/05
<b>BZ040.</b> 01/04/05
<b>BZ041.</b> 01/04/05
<b>BZ043.</b> 01/04/05
<b>BZ044.</b> 01/04/05

### Dimmable DALI

Code
<b>BZ046.</b> 01/04/05 **
<b>BZ047.</b> 01/04/05 **
<b>BZ049.</b> 01/04/05 **
<b>BZ050.</b> 01/04/05 **
<b>BZ052.</b> 01/04/05 ***
<b>BZ053.</b> 01/04/05 ***
<b>BZ055.</b> 01/04/05 ***
<b>BZ056.</b> 01/04/05 ***



<sup>1</sup> Direct luminous flux: measured using black louvres.  
With white louvres +10% output flux.

### Louvres

Length
1184 mm (x8)
1482 mm (x10)
2368 mm (x16)
2960 mm (x20)

### Code

<b>BZ059.</b> 01/04
<b>BZ060.</b> 01/04
<b>BZ061.</b> 01/04
<b>BZ062.</b> 01/04



### Angle element (not lit)

90° suspension/ceiling corner  
(on same plane)  
L=57x57 mm

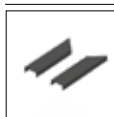


### Code

<b>BH350.</b> 01/04/05
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### Corner cover (not lit)

90° corner covers  
L=57x57 mm



### Code

<b>BZ070.</b> 01/04
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### Accessories for suspension version

Undimmable Feeding kit including 2 suspension cables 2000 mm (3 poles)

### Code

<b>AT10400</b>
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Dimmable or APP Feeding kit including 2 suspension cables 2000 mm (5 poles)

### Code

<b>AT10500</b>
<b>AT10500APP</b>
(Up to 40 addresses)

Mechanical joint including 1 suspension cable

### Code

<b>AT09500</b>
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### Accessories for ceiling version

End cap kit (2 pcs)

### Code

<b>BZ058.</b> 01/04/05
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Ceiling bracket and mechanical joint

### Code

<b>AT09501</b>
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End ceiling bracket (2 pcs)

### Code

<b>AT09502</b>
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End cap kit (2 pcs)

### Code

<b>BZ058.</b> 01/04/05
------------------------







BLL - DALI interface for Artemide App  
(with antenna, can be used to control with Artemide App up to 40 DALI drivers)

### Code

<b>DV1054APP</b>
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## A.39 SHARP MICROREFRACTIVE EMISSION

White + White Louvre  <b>01</b>	Black + Black Louvre  <b>04</b>	Silver + Black Louvre  <b>05</b>	White + Black Louvre  <b>41</b>	XF  <b>64°</b>	Louvers included. Optional Artemide App interface supplied separately. The App interface can not be controlled by DALI dimming system and viceversa.	MacAdam 3SDCM Life L70 (12K) 102000h CRI 90 * Uses 1 DALI address ** Uses 2 DALI addresses	<b>IP20</b> 
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### Suspension / Ceiling direct emission

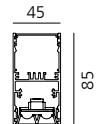
Length	W	Flux <sup>1</sup>	Flux <sup>2</sup>	CCT
1184 mm	20W	3150 lm	2660 lm	3000K 4000K
1482 mm	25W	3935 lm	3325 lm	3000K 4000K
2368 mm	40W	6300 lm	5320 lm	3000K 4000K
2960 mm	50W	7870 lm	6650 lm	3000K 4000K

<sup>1</sup> Luminous flux: measured using white louvres.

<sup>2</sup> Luminous flux: measured using black louvres.

### Dimmable DALI

Code
<b>CM1001.</b> 01/04/05/41 *
<b>CM1011.</b> 01/04/05/41 *
<b>CM2001.</b> 01/04/05/41 *
<b>CM2011.</b> 01/04/05/41 *
<b>CM4001.</b> 01/04/05/41 **
<b>CM4011.</b> 01/04/05/41 **
<b>CM5001.</b> 01/04/05/41 **
<b>CM5011.</b> 01/04/05/41 **



### Suspension direct + indirect emission

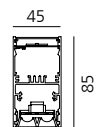
Length	W	Flux <sup>1</sup>	Flux <sup>2</sup>	CCT
1184 mm	20W direct	3150 lm direct	2660 lm direct	3000K
	15W indirect	2050 lm indirect	2050 lm indirect	4000K
1482 mm	25W direct	3935 lm direct	3325 lm direct	3000K
	20W indirect	2740 lm indirect	2740 lm indirect	4000K
2368 mm	40W direct	6300 lm direct	5320 lm direct	3000K
	30W indirect	4100 lm indirect	4100 lm indirect	4000K
2960 mm	50W direct	7870 lm direct	6650 lm direct	3000K
	40W indirect	5480 lm indirect	5480 lm indirect	4000K

<sup>1</sup> Luminous flux: measured using white louvres.

<sup>2</sup> Luminous flux: measured using black louvres.

### Dimmable DALI

Code
<b>CM1101.</b> 01/04/05/41 **
<b>CM1111.</b> 01/04/05/41 **
<b>CM2101.</b> 01/04/05/41 **
<b>CM2111.</b> 01/04/05/41 **
<b>CM4101.</b> 01/04/05/41 **
<b>CM4111.</b> 01/04/05/41 **
<b>CM5101.</b> 01/04/05/41 **
<b>CM5111.</b> 01/04/05/41 **



### Angle element (not lit)

90° suspension/ceiling corner  
(on same plane)  
L=57x57 mm



### Code

**AT310.** 01/04/05

### Accessories for suspension version

Undimmable Feeding kit including 2 suspension cables 2000 mm (3 poles)

Dimmable or APP Feeding kit including 2 suspension cables 2000 mm (5 poles)

Mechanical joint including 1 suspension cable

End cap kit (2 pcs)

### Code

**AT10400**

**AT10500**

**AT10500APP**

(Up to 40 addresses)

**AT09500**

**CM9900.** 01/04/05/41

### Accessories for ceiling version

End cap kit (2 pcs)

Ceiling bracket and mechanical joint

End ceiling bracket (2 pcs)

BLL - DALI interface for Artemide App (with antenna, can be used to control with Artemide App up to 40 DALI drivers)

### Code

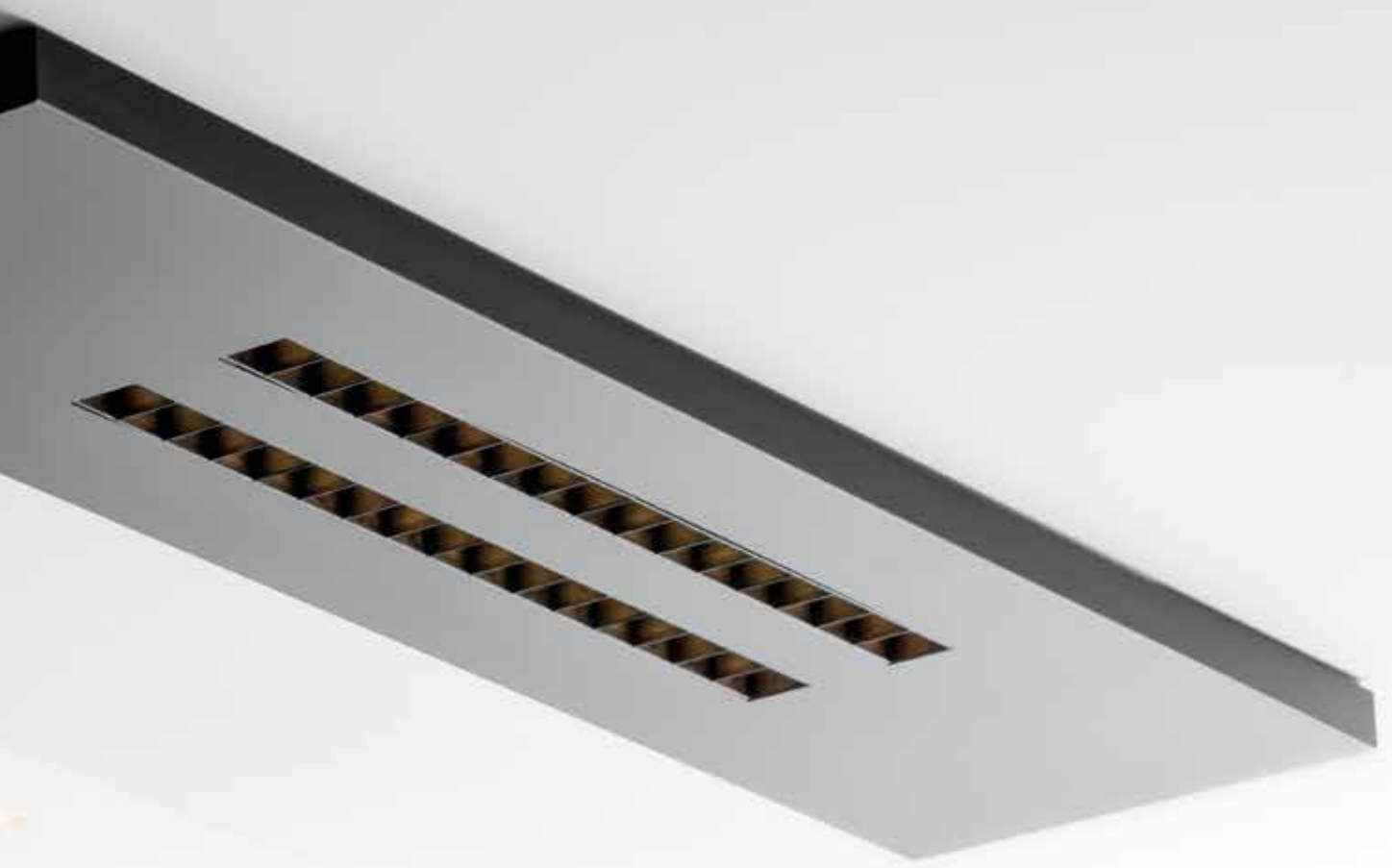
**CM9900.** 01/04/05/41

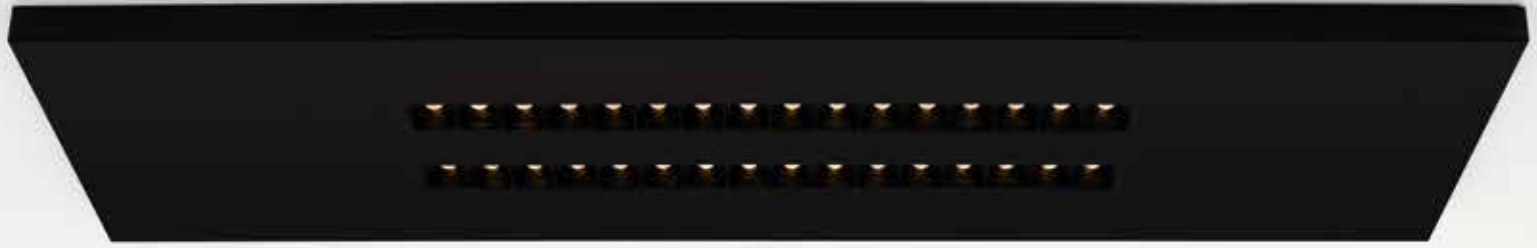
**AT09501**

**AT09502**

**DV1054APP**









# A.39 Sharp 1200x300 refractive emission

# A.39 SHARP REFRACTIVE EMISSION

White 01	Black 04	WF 	Louvers supplied separately. Recessed version only lay-in on false ceiling visible structure.	MacAdam 3SDCM Life L70 (8K) 50000h CRI 90	IP20 
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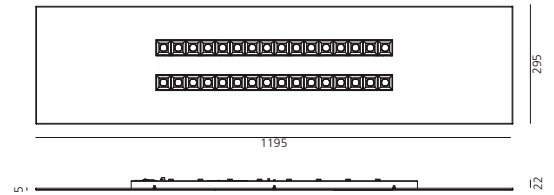
A.39 Sharp Refractive emission 1200x300 Recessed				
W	Beam	Flux*	Flux**	CCT
35W	WF	5044lm 5311 lm	4484 lm 4721 lm	3000K 4000K

Undimmable	
Code	
CD0100.	01/04
CD0110.	01/04

Dimmable DALI	
Code	
CD0101.	01/04
CD0111.	01/04

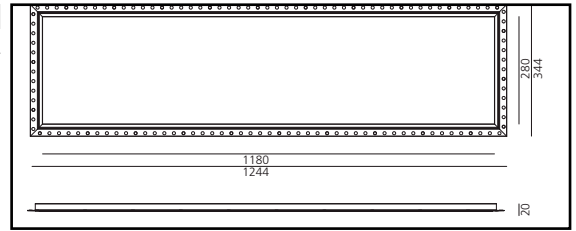


\* Luminous flux: measured using white louvers.  
\*\* Luminous flux: measured using black louvers.



**Frame for recessed version**  
Recessed frame for installation on plasterboard false ceiling

Code
CD910000



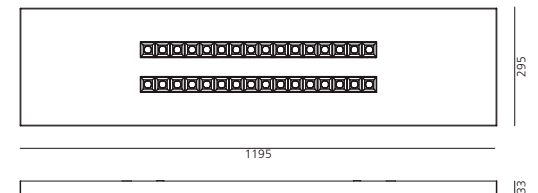
A.39 Sharp Refractive emission 1200x300 Ceiling				
W	Beam	Flux*	Flux**	CCT
35W	WF	5044 lm 5311 lm	4484 lm 4721 lm	3000K 4000K

Undimmable	
Code	
CD1100.	01/04
CD1110.	01/04


Dimmable DALI	
Code	
CD1101.	01/04
CD1111.	01/04



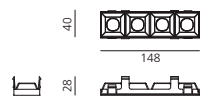
\* Luminous flux: measured using white louvers.  
\*\* Luminous flux: measured using black louvers.



**Louvers**  
A.39 Refractive emission 1200x300 (x8)



Code
BZ059.
01/04









# A.39 Sharp 600x600 refractive emission



# A.39 SHARP REFRACTIVE EMISSION

White	Black	WF	Louvres supplied separately.	MacAdam 3SDCM	IP20
			Recessed version only lay-in on false ceiling visible structure.	Life L70 (8K) 50000h	
01	04			CRI 90	

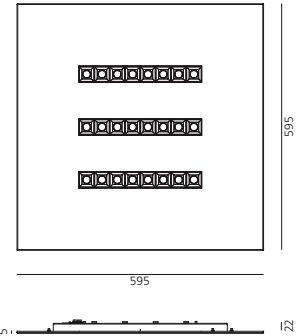
A.39 Sharp Refractive emission 600x600 Recessed				
W	Beam	Flux*	Flux**	CCT
28W	WF	3783 lm	3363 lm	3000K
		3983 lm	3541 lm	4000K

Undimmable
Code
CD0000. 01/04
CD0010. 01/04

Dimmable DALI
Code
CD0001. 01/04
CD0011. 01/04



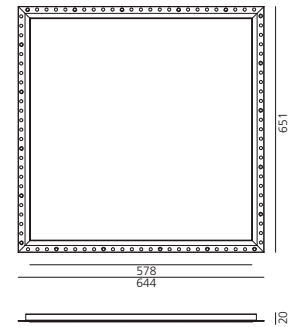
\* Luminous flux: measured using white louvres.  
 \*\* Luminous flux: measured using black louvres.



Frame for recessed version
Code
M160600

Code
M160600

Recessed frame for installation on plasterboard false ceiling



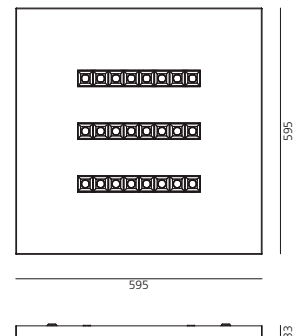
A.39 Sharp Refractive emission 600x600 Ceiling				
W	Beam	Flux*	Flux**	CCT
28W	WF	3783 lm	3363 lm	3000K
		3983 lm	3541 lm	4000K

Undimmable
Code
CD1000. 01/04
CD1010. 01/04

Dimmable DALI
Code
CD1001. 01/04
CD1011. 01/04



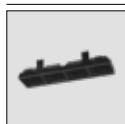
\* Luminous flux: measured using white louvres.  
 \*\* Luminous flux: measured using black louvres.

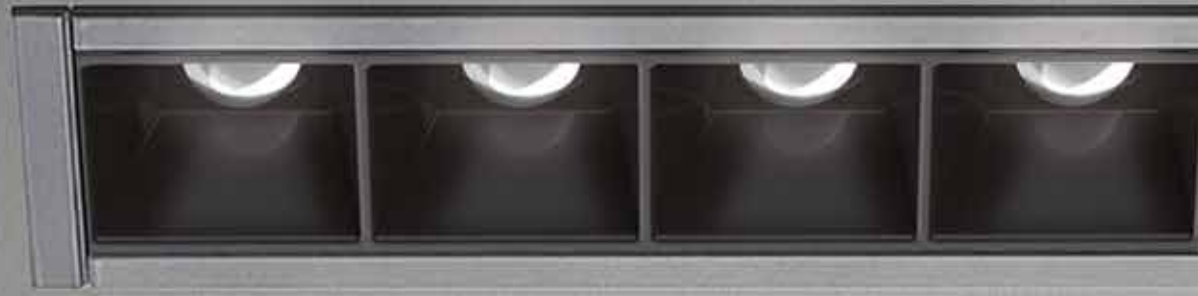


Louvres
Code
BZ063. 01/04

Code
BZ063. 01/04

A.39 Refractive emission 600x600 (x6)







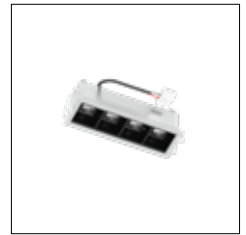
# Sharp refractive emission



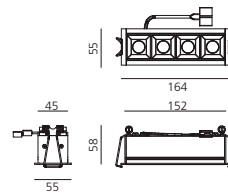
# SHARP REFRACTIVE EMISSION

White 01	Black 04	Silver 05	WF 	Driver 350mA SELV/SELV120 and louvres supplied separately.  Optional Artemide App interface supplied separately.	MacAdam 3SDCM Life L70 (8K) 50000h CRI 90	IP20 
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Sharp Refractive Trim 4x					Code
W	Beam	Flux*	Flux**	CCT	
8 W	WF	1131 lm	1005 lm	2700 K	<b>CE130.</b> 01/04/05
		1150 lm	1022 lm	3000 K	<b>CE131.</b> 01/04/05
		1213 lm	1079 lm	4000 K	<b>CE133.</b> 01/04/05



46x155

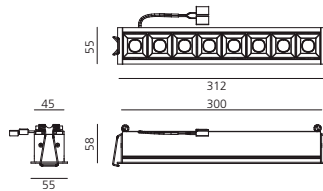


\* Luminous flux: measured using white louvres.  
\*\* Luminous flux: measured using black louvres.


Sharp Refractive Trim 8x					Code
W	Beam	Flux*	Flux**	CCT	
16 W	WF	2262 lm	2011 lm	2700 K	<b>CE140.</b> 01/04/05
		2299 lm	2044 lm	3000 K	<b>CE141.</b> 01/04/05
		2427 lm	2158 lm	4000 K	<b>CE143.</b> 01/04/05

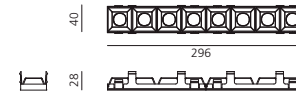
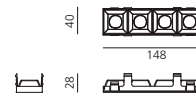


46x302



\* Luminous flux: measured using white louvres.  
\*\* Luminous flux: measured using black louvres.






Louvres		Code
	To be used on Sharp Refractive 4x	<b>BZ071.</b> 01/04
	To be used on Sharp Refractive 8x	<b>BZ072.</b> 01/04



Driver							Code
Vac	L <sub>mm</sub>	W <sub>mm</sub>	H <sub>mm</sub>	Sharp Refractive	Min. ceiling depth [mm]		
20 W 350mA	220-240	120	52	22	4x - 8x	80	Undimmable <b>DV1089</b>
20 W 350mA	220-240	120	52	22	4x - 8x	80	Push, 0-10V <b>DV1090</b>
38 W 350mA	220-240	147	44	30	4x - 8x	80	DALI <b>DV1091</b>
36 W 350mA	220-240	157	47	30	8x	80	DALI <b>DV1094</b>
50 W 350mA	220-240	124	79	22	4x - 8x	100	Artemide App <b>DV1092APP</b>
60 W 350mA	220-240	124	79	22	12x - 16x	100	DALI, Push, 0-10V <b>DV1093</b>

BLL - DALI interface for Artemide App (with antenna, can be used to control with Artemide App up to 40 DALI drivers)							Code
Vac	L <sub>mm</sub>	W <sub>mm</sub>	H <sub>mm</sub>	Sharp Refractive	Min. ceiling depth [mm]		
220-240	160	88	33	4x	130	BLL-DALI Interface	<b>DV1054APP</b>
220-240	160	88	33	8x - 12x - 16x	100	BLL-DALI Interface	<b>DV1054APP</b>

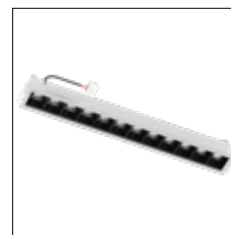
# SHARP REFRACTIVE EMISSION

White	Black	Silver	WF	Driver 350mA SELV/SELV120 and louvres supplied separately.	MacAdam 3SDCM Life L70 (8K) 50000h CRI 90	IP20
						
<b>01</b>	<b>04</b>	<b>05</b>		Optional Artemide App interface supplied separately.		

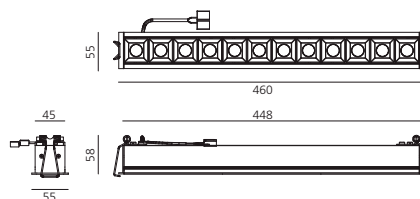
## Sharp Refractive Trim 12x

W	Beam	Flux*	Flux**	CCT	Code
24 W	WF	3393 lm	3016 lm	2700 K	<b>CE150.</b> 01/04/05
		3449 lm	3066 lm	3000 K	<b>CE151.</b> 01/04/05
		3641 lm	3237 lm	4000 K	<b>CE153.</b> 01/04/05

\* Luminous flux: measured using white louvres.  
\*\* Luminous flux: measured using black louvres.



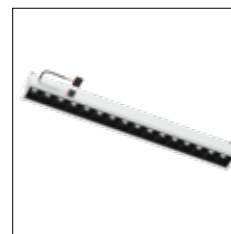
 46x450



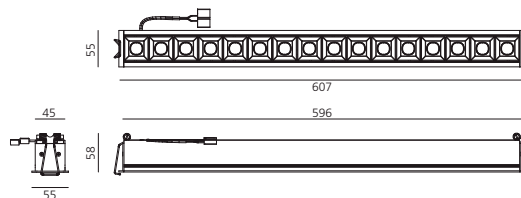
## Sharp Refractive Trim 16x

W	Beam	Flux*	Flux**	CCT	Code
32 W	WF	4524 lm	4021 lm	2700 K	<b>CE160.</b> 01/04/05
		4599 lm	4088 lm	3000 K	<b>CE161.</b> 01/04/05
		4855 lm	4316 lm	4000 K	<b>CE163.</b> 01/04/05

\* Luminous flux: measured using white louvres.  
\*\* Luminous flux: measured using black louvres.



 46x600



## Louvres

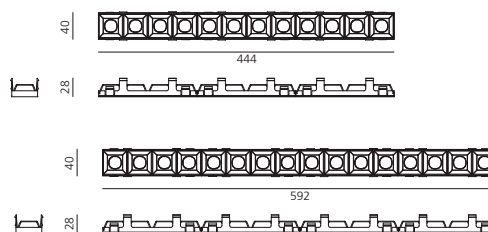


To be used on Sharp Refractive 12x

To be used on Sharp Refractive 16x

Code  
**BZ073.** 01/04

**BZ074.** 01/04



## Driver

	Vac	L <sub>mm</sub>	W <sub>mm</sub>	H <sub>mm</sub>	Sharp Refractive	Min. ceiling depth (mm)		Code
20 W 350mA	220-240	120	52	22	4x - 8x	80	Undimmable	<b>DV1089</b>
20 W 350mA	220-240	120	52	22	4x - 8x	80	Push, 0-10V	<b>DV1090</b>
38 W 350mA	220-240	147	44	30	4x - 8x	80	DALI	<b>DV1091</b>
36 W 350mA	220-240	157	47	30	8x	80	DALI	<b>DV1094</b>
50 W 350mA	220-240	124	79	22	4x - 8x	100	Artemide App	<b>DV1092APP</b>
60 W 350mA	220-240	124	79	22	12x - 16x	100	DALI, Push, 0-10V	<b>DV1093</b>

## BLL - DALI interface for Artemide App (with antenna, can be used to control with Artemide App up to 40 DALI drivers)

	Vac	L <sub>mm</sub>	W <sub>mm</sub>	H <sub>mm</sub>	Sharp Refractive	Min. ceiling depth (mm)		Code
	220-240	160	88	33	4x	130	BLL-DALI Interface	<b>DV1054APP</b>
	220-240	160	88	33	8x - 12x - 16x	100	BLL-DALI Interface	<b>DV1054APP</b>

## Refractive Emission Family is compatible with **Artemide App**

Artemide App is a user-friendly and intuitive interface used to control individual products, groups of appliances and lighting scenarios. It is a tool that can be associated with several products from both the Design and the Architectural Catalogues.





Download Artemide App  
and find more information on  
[artemide.com](https://www.artemide.com)

# Refractive emission family is INTEGRALIS®

INTEGRALIS® is an innovative light, perfectly integrated into the products of the Artemide collections, that sanitizes spaces.

INTEGRALIS® combines sanitizing efficacy with luminous performance and design beauty.

It also integrates itself in both the environments and moments of life by interpreting the rhythms and needs of mankind.

INTEGRALIS® is managed by Artemide App, a digital interaction system accessible to all.

INTEGRALIS® was born from Artemide's scientific and technological research and humanistic and social vision.

INTEGRALIS® is a project that associates and integrates the visible and invisible spectral range in an innovative formula capable of regenerating the environmental qualities of the space.



PATENT PENDING

White INTEGRALIS



# INTEGRALIS

A light for a safe environment



Discover INTEGRALIS® collection on [artemide.com](https://www.artemide.com)

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