



PRODUCT CATALOGUE 2015

# LUMINEX®

**osvětlení – licht – lighting**

**založeno 1991**

## **Sídlo firmy**

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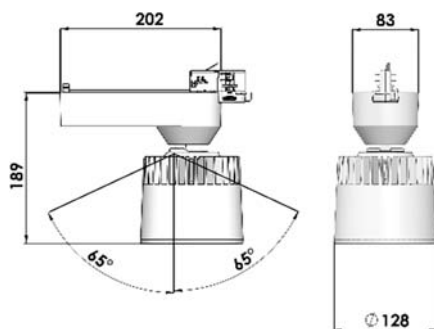
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IP20

**LIVAL**

## LEAN BIG CYLINDER

Lean BIG Cylinder surpasses all other LIVAL spots in luminous flux and that makes it the obvious choice when looking for maximum power. Lean BIG Cylinder LED is also a very attractive option for installations requiring high CRI – excellent cooling capacity enables high lumen output together with high colour rendering.

### LIGHTSOURCE OPTIONS

CRI 80 & 90 / 2700K, 3000K, 3500K, 4000K, 5000K

### COLOUR CONSISTENCY

MacAdams 3 SDCM

### LUMEN MAINTENANCE

50 000h (L70 B50)

### LIGHT OUTPUT RATIO

> 92%

### MATERIAL

Powder painted die-cast aluminium

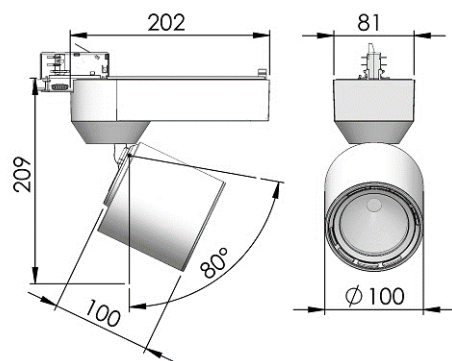
### INSTALLATION

Available for Nordic Aluminium 3-phase and Pulse tracks

### COOLING

Passive cooling

Lightsource			Power			Beam angles						Dimming			Colour					
LED-module	Colour temp.	CRI	Luminous flux	Module Wattage	System Wattage	10°	15°	20°	24°	30°	40°	50°	60°	None	1-10V	Push-dim	Dali	Silver	White	Black
CLU044-1212	3 000K	CRI 80	5 700Lm	50W	57W			●			●		●	●	●	●	●	●	●	●
CLU044-1212	3 000K	CRI 90	4 900Lm	50W	57W			●			●		●	●	●	●	●	●	●	●



IP20

## LEAN CYLINDER

Lean Cylinder represents architectural design combined with high performance. Its casing attaches directly to the lighting track and the luminaire is therefore particularly well suited for recessed lighting tracks. The aluminium die-cast body ensures effective passive cooling which increases lifetime.

### LIGHTSOURCE OPTIONS

CRI 80 & 90 / 2700K, 3000K, 3500K, 4000K, 5000K

### COLOUR CONSISTENCY

MacAdams 3 SDCM

### LUMEN MAINTENANCE

50 000h (L70 B50)

### LIGHT OUTPUT RATIO

> 89%

### MATERIAL

Powder painted die-cast aluminium

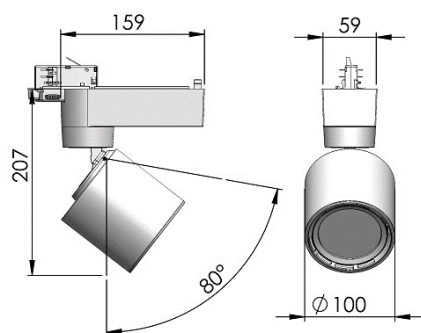
### INSTALLATION

Available for Nordic Aluminium 3-phase and Pulse tracks

### COOLING

Passive cooling

Lightsource			Power			Beam angles							Dimming			Colour				
LED-module	Colour temp.	CRI	Luminous flux	Module Wattage	System Wattage	10°	15°	21°	24°	32°	40°	46°	60°	None	1-10V	Push-dim	Dali	Silver	White	Black
CLU034-1208	3 000K	CRI 80	4 000Lm	38W	43W		●	●		●		●		●	●	●	●	●	●	●
CLU034-1208	3 000K	CRI 90	3 400Lm	38W	43W		●	●		●		●		●	●	●	●	●	●	●



IP20

## MINI LEAN CYLINDER

Mini Lean Cylinder represents well balanced architectural design. The Mini-version with its smaller casing is well suited for retail environments with lower ceilings. The aluminium die-cast body ensures efficient passive cooling which increases lifetime. This luminaire is particularly well suited for recessed lighting track.

### LIGHTSOURCE OPTIONS

CRI 80 & 90 / 2700K, 3000K, 3500K, 4000K, 5000K

### COLOUR CONSISTENCY

MacAdams 3 SDCM

### LUMEN MAINTENANCE

50 000h (L70 B50)

### LIGHT OUTPUT RATIO

> 89%

### MATERIAL

Powder painted die-cast aluminium

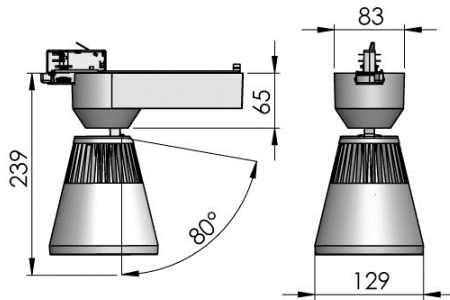
### INSTALLATION

Available for Nordic Aluminium 3-phase track

### COOLING

Passive cooling

Lightsource			Power			Beam angles								Dimming			Colour			
LED-module	Colour temp.	CRI	Luminous flux	Module Wattage	System Wattage	10°	15°	20°	24°	30°	40°	50°	60°	None	1-10V	Push-dim	Dali	Silver	White	Black
CLU034-1208	3 000K	CRI 80	3 400Lm	30W	33W		●	●		●		●		●				●	●	●
CLU034-1208	3 000K	CRI 90	2 900Lm	30W	33W		●	●		●		●		●				●	●	●



IP20

## LEAN

Lean has clean design and high performance. Its casing attaches directly to the lighting track and the luminaire is therefore particularly well suited for recessed lighting tracks.

### LIGHTSOURCE OPTIONS

CRI 80 & 90 / 2700K, 3000K, 3500K, 4000K, 5000K

### COLOUR CONSISTENCY

MacAdams 3 SDCM

### LUMEN MAINTENANCE

50 000h (L70 B50)

### LIGHT OUTPUT RATIO

> 92%

### MATERIAL

Powder painted die-cast aluminium

### INSTALLATION

Available for Nordic Aluminium 3-phase and Pulse tracks

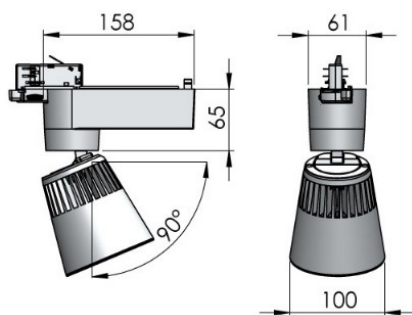
### COOLING

Passive cooling

### ACCESSORIES

Food filters: fruit, vegetable, fish, meat & bakery

Lightsource			Power			Beam angles						Dimming			Colour					
LED-module	Colour temp.	CRI	Luminous flux	Module Wattage	System Wattage	10°	15°	20°	24°	30°	40°	50°	60°	None	1-10V	Push-dim	Dali	Silver	White	Black
CLU034-1208	3 000K	CRI 80	4 050Lm	38W	43W	●			●	●		●		●	●	●	●	●	●	●
CLU034-1208	3 000K	CRI 90	3 450Lm	38W	43W	●			●	●		●		●	●	●	●	●	●	●
CLU044-1212	3 000K	CRI 80	5 500Lm	49W	57W			●			●		●	●	●	●	●	●	●	●
CLU044-1212	3 000K	CRI 90	4 700Lm	49W	57W			●			●	●	●	●	●	●	●	●	●	●



IP20

## MINI LEAN

Mini Lean is a compact luminaire in the Lean-series. In addition to a clean design the aluminium die-cast body ensures efficient passive cooling which increases lifetime. This luminaire is particularly well suited for recessed lighting track.

### LIGHTSOURCE OPTIONS

CRI 80 & 90 / 2700K, 3000K, 3500K, 4000K, 5000K

### COLOUR CONSISTENCY

MacAdams 3 SDCM

### LUMEN MAINTENANCE

50 000h (L70 B50)

### LIGHT OUTPUT RATIO

> 89%

### MATERIAL

Powder painted die-cast aluminium

### INSTALLATION

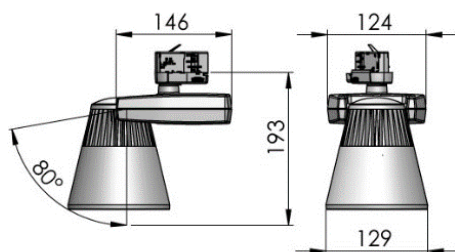
Available for Nordic Aluminium 3-phase track

### COOLING

Passive cooling

Lightsource		Power				Beam angles								Dimming			Colour			
LED-module	Colour temp.	CRI	Luminous flux	Module Wattage	System Wattage	10°	15°	20°	24°	30°	40°	50°	60°	None	1-10V	Push-dim	Dali	Silver	White	Black
CLU034-1206	3 000K	CRI 80	3 300Lm	31W	34W		•	•		•		•		•				•	•	•
CLU034-1206	3 000K	CRI 90	2 800Lm	31W	34W		•	•		•		•		•				•	•	•





IP20

# PRIORITY

Priority has clean design and high performance. The sturdy aluminium die-cast body ensures physical durability and effective cooling.

## LIGHTSOURCE OPTIONS

CRI 80 & 90 / 2700K, 3000K, 3500K, 4000K, 5000K

## COLOUR CONSISTENCY

MacAdams 3 SDCM

## LUMEN MAINTENANCE

50 000h (L70 B50)

## LIGHT OUTPUT RATIO

> 92%

## MATERIAL

Powder painted die-cast aluminium

## INSTALLATION

Available for all Nordic Aluminium tracks

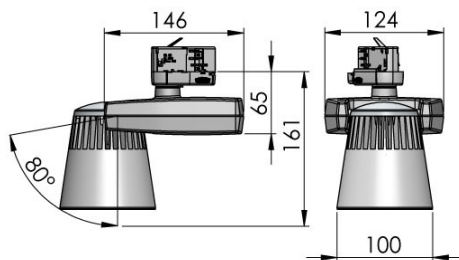
## COOLING

Passive cooling

## ACCESSORIES

Food filters: fruit, vegetable, fish, meat & bakery

Lightsource			Power			Beam angles								Dimming			Colour			
LED-module	Colour temp.	CRI	Luminous flux	Module Wattage	System Wattage	10°	15°	20°	24°	30°	40°	50°	60°	None	1-10V	Push-dim	Dali	Silver	White	Black
CLU034-1208	3 000K	CRI 80	4 050lm	38W	43W	●			●	●		●		●	●	●	●	●	●	●
CLU034-1208	3 000K	CRI 90	3 450lm	38W	43W	●			●	●		●		●	●	●	●	●	●	●
CLU044-1212	3 000K	CRI 80	5 500lm	49W	57W			●			●	●		●	●	●	●	●	●	●
CLU044-1212	3 000K	CRI 90	4 700lm	49W	57W			●			●	●		●	●	●	●	●	●	●



IP20

## MINI PRIORITY

Mini Priority is a compact luminaire in the Priority-series. The sturdy aluminium die-cast body ensures physical durability and efficient cooling. Mini Priority's size makes it suitable for installation in small spaces and it's also our smallest dimmable spot light.

### LIGHTSOURCE OPTIONS

CRI 80 & 90 / 2700K, 3000K, 3500K, 4000K, 5000K

### COLOUR CONSISTENCY

MacAdams 3 SDCM

### LUMEN MAINTENANCE

50 000h (L70 B50)

### LIGHT OUTPUT RATIO

> 89%

### MATERIAL

Powder painted die-cast aluminium

### INSTALLATION

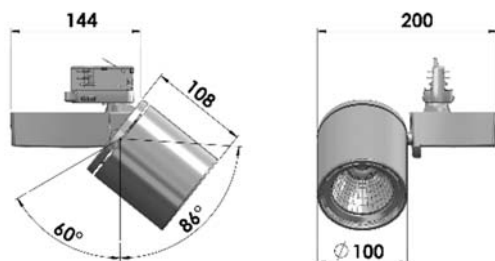
Available for all Nordic Aluminium tracks

### COOLING

Passive cooling

Lightsource			Power			Beam angles								Dimming			Colour			
LED-module	Colour temp.	CRI	Luminous flux	Module Wattage	System Wattage	10°	15°	20°	24°	30°	40°	50°	60°	None	1-10V	Push-dim	Dali	Silver	White	Black
CLU034-1206	3 000K	CRI 80	3 300Lm	31W	34W		●	●		●		●		●	*	*	*	●	●	●
CLU034-1206	3 000K	CRI 90	2 800Lm	31W	34W		●	●		●		●		●	*	*	*	●	●	●

\* Dimmable versions have lower luminous flux



IP20

## RIVAL CYLINDER

Rival Cylinder has a contemporary and compact design. The luminaire features a full die-cast aluminium body for effective cooling.

### LIGHTSOURCE OPTIONS

CRI 80 & 90 / 2700K, 3000K, 3500K, 4000K, 5000K

### COLOUR CONSISTENCY

MacAdams 3 SDCM

### LUMEN MAINTENANCE

50 000h (L70 B50)

### LIGHT OUTPUT RATIO

> 89%

### MATERIAL

Powder painted die-cast aluminium

### INSTALLATION

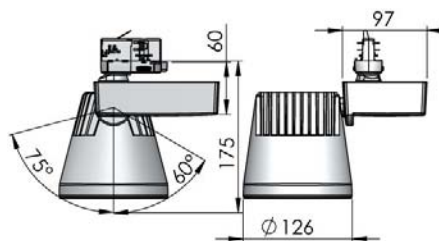
Available for all Nordic Aluminium tracks

### COOLING

Passive cooling

Lightsource			Power			Beam angles						Dimming			Colour					
LED-module	Colour temp.	CRI	Luminous flux	Module Wattage	System Wattage	10°	15°	21°	24°	32°	40°	46°	60°	None	1-10V	Push-dim	Dali	Silver	White	Black
CLU034-1208	3 000K	CRI 80	3 400Lm	30W	33W		●	●		●		●		●	*	*	*	●	●	●
CLU034-1208	3 000K	CRI 90	2 900Lm	30W	33W		●	●		●		●		●	*	*	*	●	●	●

\* Dimmable versions have lower luminous flux



IP20

# RIVAL

Rival is efficient luminaire with high performance. The sturdy aluminium die-cast body ensures effective passive cooling which increases lifetime.

## LIGHTSOURCE OPTIONS

CRI 80 & 90 / 2700K, 3000K, 3500K, 4000K, 5000K

## COLOUR CONSISTENCY

MacAdams 3 SDCM

## LUMEN MAINTENANCE

50 000h (L70 B50)

## LIGHT OUTPUT RATIO

> 91%

## MATERIAL

Powder painted die-cast aluminium

## INSTALLATION

Available for all Nordic Aluminium tracks

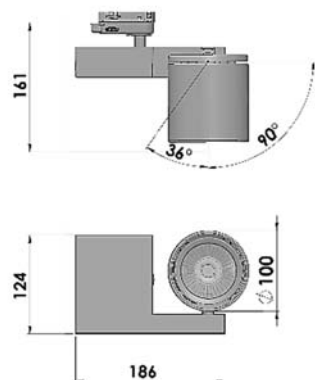
## COOLING

Passive cooling

## ACCESSORIES

Food filters: fruit, vegetable, fish, meat & bakery

Lightsource			Power			Beam angles						Dimming			Colour					
LED-module	Colour temp.	CRI	Luminous flux	Module Wattage	System Wattage	10°	15°	20°	24°	30°	40°	50°	60°	None	1-10V	Push-dim	Dali	Silver	White	Black
CLU034-1208	3 000K	CRI 80	4 050Lm	38W	43W	●			●	●		●		●	●	●	●	●	●	●
CLU034-1208	3 000K	CRI 90	3 450Lm	38W	43W	●			●	●		●		●	●	●	●	●	●	●
CLU044-1212	3 000K	CRI 80	5 500Lm	49W	57W			●			●		●	●	●	●	●	●	●	●
CLU044-1212	3 000K	CRI 90	4 700Lm	49W	57W			●			●		●	●	●	●	●	●	●	●



IP20

# ALERT

Alert combines sharp corners and a cylindrical shape in a distinctive and well balanced luminaire design. This luminaire is like a fresh breeze to any modern store.

## LIGHTSOURCE OPTIONS

CRI 80 & 90 / 2700K, 3000K, 3500K, 4000K, 5000K

## COLOUR CONSISTENCY

MacAdams 3 SDCM

## LUMEN MAINTENANCE

50 000h (L70 B50)

## LIGHT OUTPUT RATIO

> 89%

## MATERIAL

Powder painted die-cast aluminium

## INSTALLATION

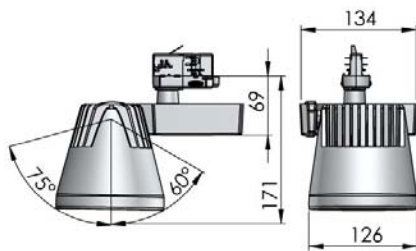
Available for all Nordic Aluminium tracks

## COOLING

Passive cooling

Lightsource			Power			Beam angles							Dimming			Colour				
LED-module	Colour temp.	CRI	Luminous flux	Module Wattage	System Wattage	10°	15°	21°	24°	32°	40°	46°	60°	None	1-10V	Push-dim	Dali	Silver	White	Black
CLU034-1208	3 000K	CRI 80	3 400Lm	30W	33W		●	●		●		●		●	*	*	*	●	●	●
CLU034-1208	3 000K	CRI 90	2 900Lm	30W	33W		●	●		●		●		●	*	*	*	●	●	●

\* Dimmable versions have lower luminous flux



IP20

# BANDIT

Bandit is a classic design with high performance. The sturdy aluminium die-cast body ensures effective passive cooling which increases lifetime.

## LIGHTSOURCE OPTIONS

CRI 80 & 90 / 2700K, 3000K, 3500K, 4000K, 5000K

## COLOUR CONSISTENCY

MacAdams 3 SDCM

## LUMEN MAINTENANCE

50 000h (L70 B50)

## LIGHT OUTPUT RATIO

> 91%

## MATERIAL

Powder painted die-cast aluminium

## INSTALLATION

Available for all Nordic Aluminium tracks

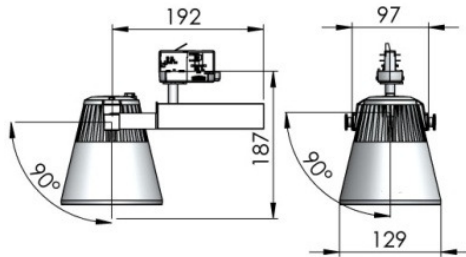
## COOLING

Passive cooling

## ACCESSORIES

Food filters: fruit, vegetable, fish, meat & bakery

Lightsource			Power			Beam angles						Dimming			Colour					
LED-module	Colour temp.	CRI	Luminous flux	Module Wattage	System Wattage	10°	15°	20°	24°	30°	40°	50°	60°	None	1-10V	Push-dim	Dali	Silver	White	Black
CLU034-1208	3 000K	CRI 80	4 050Lm	38W	43W	●			●	●		●		●	●	●	●	●	●	●
CLU034-1208	3 000K	CRI 90	3 450Lm	38W	43W	●			●	●		●		●	●	●	●	●	●	●
CLU044-1212	3 000K	CRI 80	5 500Lm	49W	57W			●			●		●	●	●	●	●	●	●	●
CLU044-1212	3 000K	CRI 90	4 700Lm	49W	57W			●			●		●	●	●	●	●	●	●	●



IP20

## GLIDER

Glider is designed with efficiency and output in mind. This luminaire is an economical choice and with high performance.

### LIGHTSOURCE OPTIONS

CRI 80 & 90 / 2700K, 3000K, 3500K, 4000K, 5000K

### COLOUR CONSISTENCY

MacAdams 3 SDCM

### LUMEN MAINTENANCE

50 000h (L70 B50)

### LIGHT OUTPUT RATIO

> 91%

### MATERIAL

Powder painted die-cast aluminium

### INSTALLATION

Available for all Nordic Aluminium tracks

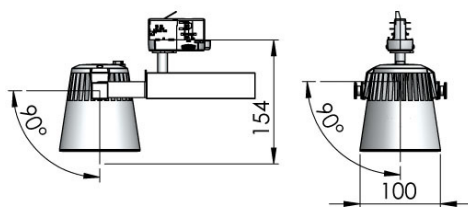
### COOLING

Passive cooling

### ACCESSORIES

Food filters: fruit, vegetable, fish, meat & bakery

Lightsource			Power			Beam angles						Dimming			Colour					
LED-module	Colour temp.	CRI	Luminous flux	Module Wattage	System Wattage	10°	15°	20°	24°	30°	40°	50°	60°	None	1-10V	Push-dim	Dali	Silver	White	Black
CLU034-1208	3 000K	CRI 80	4 050Lm	38W	43W	●			●	●		●		●	●	●	●	●	●	●
CLU034-1208	3 000K	CRI 90	3 450Lm	38W	43W	●			●	●		●		●	●	●	●	●	●	●
CLU044-1212	3 000K	CRI 80	5 500Lm	49W	57W			●			●		●	●	●	●	●	●	●	●
CLU044-1212	3 000K	CRI 90	4 700Lm	49W	57W			●			●		●	●	●	●	●	●	●	●



IP20

## MINI GLIDER

Mini Glider is a compact luminaire in the Glider LED-series. Effective and economical – the lumen package makes Mini Glider an attractive solution. Good passive cooling increases lifetime.

### LIGHTSOURCE OPTIONS

CRI 80 & 90 / 2700K, 3000K, 3500K, 4000K, 5000K

### COLOUR CONSISTENCY

MacAdams 3 SDCM

### LUMEN MAINTENANCE

50 000h (L70 B50)

### LIGHT OUTPUT RATIO

> 89%

### MATERIAL

Powder painted die-cast aluminium

### INSTALLATION

Available for all Nordic Aluminium tracks

### COOLING

Passive cooling

Lightsource			Power			Beam angles								Dimming			Colour			
LED-module	Colour temp.	CRI	Luminous flux	Module Wattage	System Wattage	10°	15°	20°	24°	30°	40°	50°	60°	None	1-10V	Push-dim	Dali	Silver	White	Black
CLU034-1206	3 000K	CRI 80	3 300Lm	31W	34W		●	●		●		●		●	*	*	*	●	●	●
CLU034-1206	3 000K	CRI 90	2 800Lm	31W	34W		●	●		●		●		●	*	*	*	●	●	●

\* Dimmable versions have lower luminous flux





IP20

## ECO CLEAN

Eco Clean is versatile and nimble. Its compact design gives precision in directing light where light is needed and contributes to elegant shop interiors. The fully die-cast aluminium casing ensures durability and efficient cooling extends lifetime.

### LIGHTSOURCE OPTIONS

CRI 80 & 90 / 2700K, 3000K, 3500K, 4000K, 5000K

### COLOUR CONSISTENCY

MacAdams 3 SDCM

### LUMEN MAINTENANCE

50 000h (L70 B50)

### LIGHT OUTPUT RATIO

> 89%

### MATERIAL

Powder painted die-cast aluminium

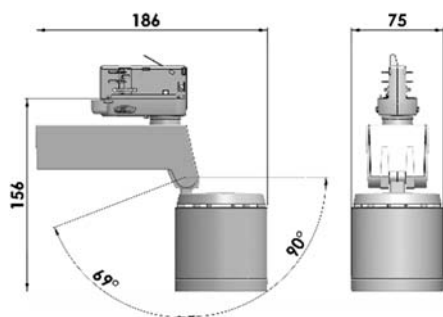
### INSTALLATION

Available for Nordic Aluminium 1-phase and 3-phase tracks

### COOLING

Passive cooling

Lightsource			Power			Beam angles								Dimming			Colour			
LED-module	Colour temp.	CRI	Luminous flux	Module Wattage	System Wattage	10°	15°	20°	24°	30°	40°	50°	60°	None	1-10V	Push-dim	Dali	Silver	White	Black
CLU034-1206	3 000K	CRI 80	3 300Lm	31W	34W		•	•		•		•		•				•	•	•
CLU034-1206	3 000K	CRI 90	2 800Lm	31W	34W		•	•		•		•		•				•	•	•



IP20

## CASA CLEAN

Casa Clean is small and nimble luminaire with over 2000Lm output. Its compact design works well in small spaces where eloquent design is preferred. Casa Clean's die-cast aluminium casing ensures durability and efficient cooling extends lifetime.

### LIGHTSOURCE OPTIONS

CRI 80 & 90 / 2700K, 3000K, 3500K, 4000K, 5000K

### COLOUR CONSISTENCY

MacAdams 3 SDCM

### LUMEN MAINTENANCE

50 000h (L70 B50)

### LIGHT OUTPUT RATIO

> 87%

### MATERIAL

Powder painted die-cast aluminium

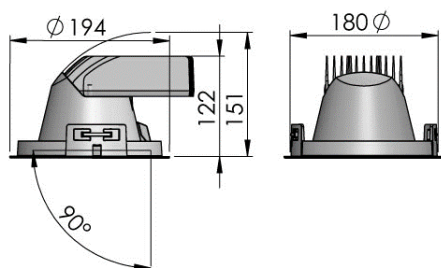
### INSTALLATION

Available for Nordic Aluminium 1-phase and 3-phase tracks

### COOLING

Passive cooling

Lightsource			Power			Beam angles								Dimming			Colour			
LED-module	Colour temp.	CRI	Luminous flux	Module Wattage	System Wattage	10°	15°	21°	24°	32°	40°	46°	60°	None	1-10V	Push-dim	Dali	Silver	White	Black
CLU034-1206	3 000K	CRI 80	2 400Lm	21W	26W		●	●		●		●		●				●	●	●
CLU034-1206	3 000K	CRI 90	2 050Lm	21W	26W		●	●		●		●		●				●	●	●



IP20

## LEAN DL

Lean DL is a high performance recessed luminaire fully made of die-cast aluminium. The luminaire tilts 90° and turns 355° which enables versatile light planning – exceptionally good for lighting walls and shelves.

### LIGHTSOURCE OPTIONS

CRI 80 & 90 / 2700K, 3000K, 3500K, 4000K, 5000K

### COLOUR CONSISTENCY

MacAdams 3 SDCM

### LUMEN MAINTENANCE

50 000h (L70 B50)

### LIGHT OUTPUT RATIO

> 91%

### MATERIAL

Powder painted die-cast aluminium

### INSTALLATION

Installation cut-out 180mm, maximum ceiling thickness 25mm, spring mounted, no tools required

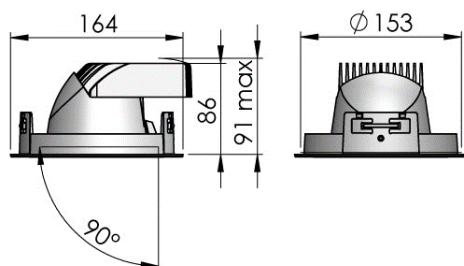
### COOLING

Passive cooling

### ACCESSORIES

Food filters: fruit, vegetable, fish, meat & bakery

Lightsource			Power			Beam angles								Dimming			Colour			
LED-module	Colour temp.	CRI	Luminous flux	Module Wattage	System Wattage	10°	15°	20°	24°	30°	40°	50°	60°	None	1-10V	Push-dim	Dali	Silver	White	Black
CLU034-1208	3 000K	CRI 80	4 050lm	38W	43W	●			●	●		●		●	●	●	●	●	●	●
CLU034-1208	3 000K	CRI 90	3 450lm	38W	43W	●			●	●		●		●	●	●	●	●	●	●
CLU044-1212	3 000K	CRI 80	5 500lm	49W	57W			●			●	●	●	●	●	●	●	●	●	●
CLU044-1212	3 000K	CRI 90	4 700lm	49W	57W			●			●	●	●	●	●	●	●	●	●	●



IP20

## MINI LEAN DL

Mini Lean DL is a small and elegant recessed luminaire. It is particularly well suited for accent lighting. The luminaire tilts 90° and turns 355° which enables versatile light planning. In addition to clean design the die-cast aluminium body ensures effective cooling which increases lifetime.

### LIGHTSOURCE OPTIONS

CRI 80 & 90 / 2700K, 3000K, 3500K, 4000K, 5000K

### COLOUR CONSISTENCY

MacAdams 3 SDCM

### LUMEN MAINTENANCE

50 000h (L70 B50)

### LIGHT OUTPUT RATIO

> 89%

### MATERIAL

Powder painted die-cast aluminium

### INSTALLATION

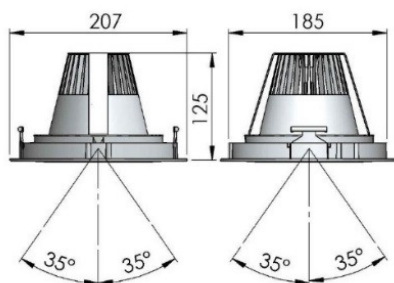
Installation cut-out 150mm, maximum ceiling thickness 25mm,  
spring mounted, no tools required

### COOLING

Passive cooling

Lightsource			Power			Beam angles								Dimming			Colour			
LED-module	Colour temp.	CRI	Luminous flux	Module Wattage	System Wattage	10°	15°	20°	24°	30°	40°	50°	60°	None	1-10V	Push-dim	Dali	Silver	White	Black
CLU034-1206	3 000K	CRI 80	3 300Lm	31W	34W		●	●		●		●		●	*	*	*	●	●	●
CLU034-1206	3 000K	CRI 90	2 800Lm	31W	34W		●	●		●		●		●	*	*	*	●	●	●

\* Dimmable versions have lower luminous flux



IP20

# FIRST CIRCLE

First Circle is a solid downlight for creating clean and flush suspended ceilings. The luminaire offers flexibility in lighting design and can be used either as general lighting or for creating accent lighting.

## LIGHTSOURCE OPTIONS

CRI 80 & 90 / 2700K, 3000K, 3500K, 4000K, 5000K

## COLOUR CONSISTENCY

MacAdams 3 SDCM

## LUMEN MAINTENANCE

50 000h (L70 B50)

## LIGHT OUTPUT RATIO

> 91%

## MATERIAL

Powder painted die-cast aluminium

## INSTALLATION

Installation cut-out 195mm, maximum ceiling thickness 25mm,  
spring mounted, no tools required

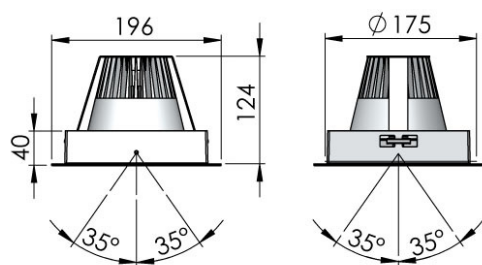
## COOLING

Passive cooling

## ACCESSORIES

Food filters: fruit, vegetable, fish, meat & bakery

Lightsource			Power			Beam angles								Dimming			Colour			
LED-module	Colour temp.	CRI	Luminous flux	Module Wattage	System Wattage	10°	15°	20°	24°	30°	40°	50°	60°	None	1-10V	Push-dim	Dali	Silver	White	Black
CLU034-1208	3 000K	CRI 80	4 050Lm	38W	43W	●			●	●		●		●	●	●	●	●	●	●
CLU034-1208	3 000K	CRI 90	3 450Lm	38W	43W	●			●	●		●		●	●	●	●	●	●	●
CLU044-1212	3 000K	CRI 80	5 500Lm	49W	57W			●			●	●	●	●	●	●	●	●	●	●
CLU044-1212	3 000K	CRI 90	4 700Lm	49W	57W			●			●	●	●	●	●	●	●	●	●	●



IP20

**LIVAL**

# FIRST

First is a solid downlight for creating clean and flush suspended ceilings. The die-cast aluminium body makes the luminaire strong and firm – great cooling capacity increases lifetime.

## LIGHTSOURCE OPTIONS

CRI 80 & 90 / 2700K, 3000K, 3500K, 4000K, 5000K

## COLOUR CONSISTENCY

MacAdams 3 SDCM

## LUMEN MAINTENANCE

50 000h (L70 B50)

## LIGHT OUTPUT RATIO

> 91%

## MATERIAL

Powder painted die-cast aluminium

## INSTALLATION

Installation cut-out 180mm x 180mm, maximum ceiling thickness

25mm, spring mounted, no tools required

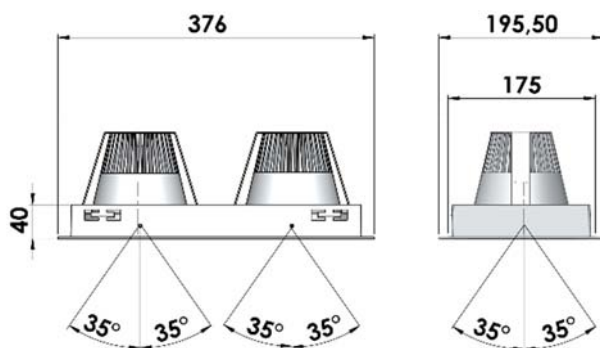
## COOLING

Passive cooling

## ACCESSORIES

Food filters: fruit, vegetable, fish, meat & bakery

Lightsource			Power			Beam angles								Dimming			Colour			
LED-module	Colour temp.	CRI	Luminous flux	Module Wattage	System Wattage	10°	15°	20°	24°	30°	40°	50°	60°	None	1-10V	Push-dim	Dali	Silver	White	Black
CLU034-1208	3 000K	CRI 80	4 050Lm	38W	43W	●			●	●		●		●	●	●	●	●	●	●
CLU034-1208	3 000K	CRI 90	3 450Lm	38W	43W	●			●	●		●		●	●	●	●	●	●	●
CLU044-1212	3 000K	CRI 80	5 500Lm	49W	57W			●			●	●		●	●	●	●	●	●	●
CLU044-1212	3 000K	CRI 90	4 700Lm	49W	57W			●			●	●		●	●	●	●	●	●	●



IP20

**LIVAL**

## FIRST DUO

First Duo is a solid downlight for creating clean and flush suspended ceilings. The die-cast aluminium body makes the luminaire strong and firm – great cooling capacity increases lifetime.

### LIGHTSOURCE OPTIONS

CRI 80 & 90 / 2700K, 3000K, 3500K, 4000K, 5000K

### COLOUR CONSISTENCY

MacAdams 3 SDCM

### LUMEN MAINTENANCE

50 000h (L70 B50)

### LIGHT OUTPUT RATIO

> 91%

### MATERIAL

Powder painted die-cast aluminium

### INSTALLATION

Installation cut-out 180mm x 355mm, maximum ceiling thickness

25mm, spring mounted, no tools required

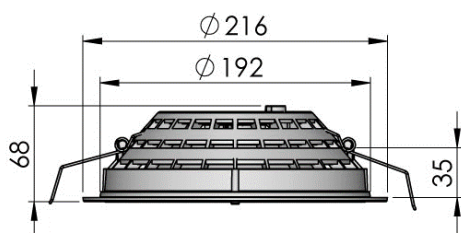
### COOLING

Passive cooling

### ACCESSORIES

Food filters: fruit, vegetable, fish, meat & bakery

Lightsource		Power					Beam angles								Dimming				Colour		
LED-module	Colour temp.	CRI	Luminous flux	Module Wattage	System Wattage		10°	15°	20°	24°	30°	40°	50°	60°	None	1-10V	Push-dim	Dali	Silver	White	Black
CLU034-1208	3 000K	CRI 80	4 050Lm	38W	43W		•			•	•		•		•	•	•	•	•	•	•
CLU034-1208	3 000K	CRI 90	3 450Lm	38W	43W		•			•	•		•		•	•	•	•	•	•	•
CLU044-1212	3 000K	CRI 80	5 500Lm	49W	57W				•			•		•	•	•	•	•	•	•	•
CLU044-1212	3 000K	CRI 90	4 700Lm	49W	57W				•			•		•	•	•	•	•	•	•	•



IP20

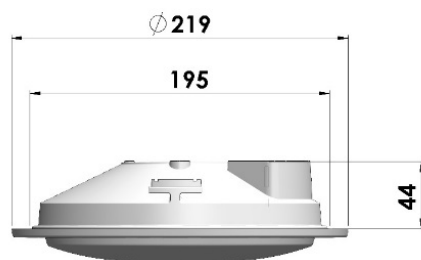
# HONY

Hony is a great downlight for general lighting and its low profile makes it suitable for very low suspended ceilings. Exceptional cooling capacity enables high lumen output! Luminaire beam angle is 100°.

<b>LIGHTSOURCE OPTIONS</b>	CRI 80 & 90 / 2700K, 3000K, 3500K, 4000K, 5000K
<b>COLOUR CONSISTENCY</b>	MacAdams 3 SDCM
<b>LUMEN MAINTENANCE</b>	50 000h (L70 B50)
<b>LIGHT OUTPUT RATIO</b>	n/a
<b>MATERIAL</b>	Powder painted die-cast aluminium
<b>INSTALLATION</b>	Installation cut-out diameter 200mm, maximum ceiling thickness 25mm, spring mounted, no tools required
<b>COOLING</b>	Passive cooling

Lightsource		Power				Dimming				Colour		
LED-module	Colour temp.	CRI	Luminous flux	Module Wattage	System Wattage	None	1-10V	Push-dim	Dali	Silver	White	Black
CLU034-1208	3 000K	CRI 80	4 500Lm	44W	50W	•	•	•	•	•	•	•
CLU034-1208	3 000K	CRI 90	3 900Lm	44W	50W	•	•	•	•	•	•	•





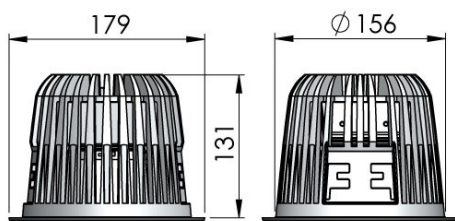
IP20

# HONY-R

The Hony R-version is a great value recessed luminaire with a even lower profile (only 44mm!). This luminaire is ideal for installation in suspended ceilings with very little room! Luminaire beam angle is 100°.

<b>LIGHTSOURCE OPTIONS</b>	CRI 80 & 90 / 2700K, 3000K, 3500K, 4000K, 5000K
<b>COLOUR CONSISTENCY</b>	MacAdams 3 SDCM
<b>LUMEN MAINTENANCE</b>	50 000h (L70 B50)
<b>LIGHT OUTPUT RATIO</b>	n/a
<b>MATERIAL</b>	Powder painted die-cast aluminium
<b>INSTALLATION</b>	Installation cut-out diameter 200mm, maximum ceiling thickness 25mm, spring mounted, no tools required
<b>COOLING</b>	Passive cooling

Lightsource		Power				Dimming				Colour		
LED-module	Colour temp.	CRI	Luminous flux	Module Wattage	System Wattage	None	1-10V	Push-dim	Dali	Silver	White	Black
CLU034-1206	3 000K	CRI 80	2 400Lm	19W	22W	•	•	•	•	•	•	•
CLU034-1206	3 000K	CRI 90	2 000Lm	19W	22W	•	•	•	•	•	•	•
CLU034-1206	3 000K	CRI 80	3 300Lm	31W	34W	•				•	•	•
CLU034-1206	3 000K	CRI 90	2 800Lm	31W	34W	•				•	•	•



IP20

## SMART

Smart is an economical downlight with high output. Its high profile reduces glare even in low ceiling rooms. Luminaire beam angle is 60°.

### LIGHTSOURCE OPTIONS

CRI 80 & 90 / 2700K, 3000K, 3500K, 4000K, 5000K

### COLOUR CONSISTENCY

MacAdams 3 SDCM

### LUMEN MAINTENANCE

50 000h (L70 B50)

### LIGHT OUTPUT RATIO

n/a

### MATERIAL

Powder painted die-cast aluminium

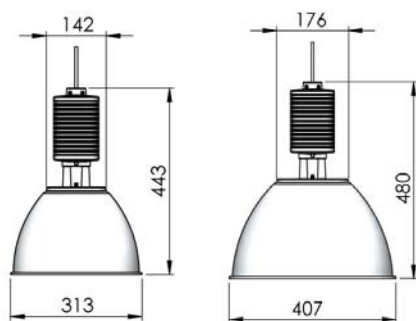
### INSTALLATION

Installation cut-out diameter 160mm, maximum ceiling thickness 25mm, spring mounted, no tools required

### COOLING

Passive cooling

Lightsource		Power				Dimming				Colour		
LED-module	Colour temp.	CRI	Luminous flux	Module Wattage	System Wattage	None	1-10V	Push-dim	Dali	Silver	White	Black
CLU034-1206	3 000K	CRI 80	2 000Lm	16W	20W	•	•	•	•	•	•	•
CLU034-1206	3 000K	CRI 90	1 700Lm	16W	20W	•	•	•	•	•	•	•
CLU034-1208	3 000K	CRI 80	4 500Lm	44W	50W	•	•	•	•	•	•	•
CLU034-1208	3 000K	CRI 90	3 900Lm	44W	50W	•	•	•	•	•	•	•



Secur 812

Secur 816

IP20

# SECUR

Secur is a versatile pendant made of die-cast aluminium. Popular applications include food display illumination in super markets and general lighting in shops and cafeterias. Luminaire is supplied with a 4m power cable – other lengths available on request.

## LIGHTSOURCE OPTIONS

CRI 80 & 90 / 2700K, 3000K, 3500K, 4000K, 5000K

## COLOUR CONSISTENCY

MacAdams 3 SDCM

## LUMEN MAINTENANCE

50 000h (L70 B50)

## LIGHT OUTPUT RATIO

> 89%

## MATERIAL

Powder painted die-cast aluminium

## INSTALLATION

Suspended with power cable from the ceiling

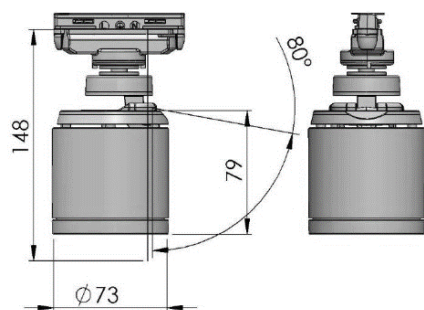
## COOLING

Passive cooling

## ACCESSORIES

Food filters: fruit, vegetable, fish, meat & bakery

Lightsource			Power			Beam angles								Dimming			Colour			
LED-module	Colour temp.	CRI	Luminous flux	Module Wattage	System Wattage	10°	15°	20°	24°	30°	40°	50°	60°	None	1-10V	Push-dim	Dali	Silver	White	Black
CLU034-1208	3 000K	CRI 80	4 050Lm	38W	43W	●			●	●		●		●	●	●	●	●	●	●
CLU034-1208	3 000K	CRI 90	3 450Lm	38W	43W	●			●	●		●		●	●	●	●	●	●	●
CLU044-1212	3 000K	CRI 80	5 500Lm	49W	57W			●			●		●	●	●	●	●	●	●	●
CLU044-1212	3 000K	CRI 90	4 700Lm	49W	57W			●			●		●	●	●	●	●	●	●	●



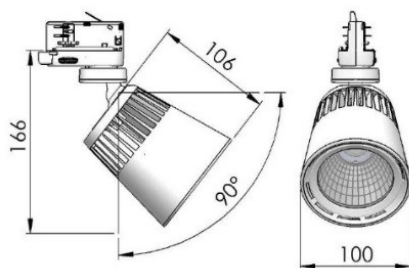
IP20

## CASA AC

Casa AC is a very small sized driverless LED spotlight – perfect for replacing halogen luminaires. Its small size makes it ideal for accent lighting at home and in cafés or restaurants.

<b>LIGHTSOURCE OPTIONS</b>	CRI 80 / 2700K, 3000K, 4000K
<b>COLOUR CONSISTENCY</b>	MacAdams 3 SDCM
<b>SERVICE LIFE</b>	40 000h
<b>LIGHT OUTPUT RATIO</b>	> 87%
<b>MATERIAL</b>	Powder painted die-cast aluminium
<b>INSTALLATION</b>	Available for Nordic Aluminium 1-phase and 3-phase tracks
<b>DIMMING</b>	Non-dimmable
<b>COOLING</b>	Passive cooling

Lightsource		Power				Beam angles		Colour		
LED-module	Colour temp.	CRI	Luminous flux	Module Wattage	System Wattage	15°	24°	Silver	White	Black
CLL173-A072	3 000K	CRI 80	985 Lm	16W	16W	•	•	•	•	•



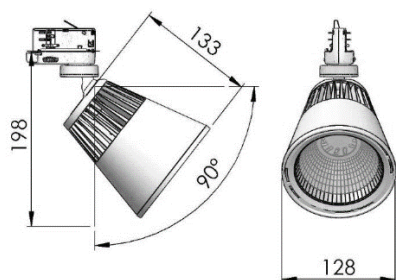
IP20

## GALLERIA AC MINI

Galleria AC Mini is a small sized driverless LED spotlight – perfect for accent lighting.

<b>LIGHTSOURCE OPTIONS</b>	CRI 80 / 2700K, 3000K, 4000K
<b>COLOUR CONSISTENCY</b>	MacAdams 3 SDCM
<b>SERVICE LIFE</b>	40 000h
<b>LIGHT OUTPUT RATIO</b>	> 86%
<b>MATERIAL</b>	Powder painted die-cast aluminium
<b>INSTALLATION</b>	Available for Nordic Aluminium 1-phase and 3-phase tracks
<b>DIMMING</b>	Non-dimmable
<b>COOLING</b>	Passive cooling

Lightsource		Power				Beam angles			Colour		
LED-module	Colour temp.	CRI	Luminous flux	Module Wattage	System Wattage	15°	24°	35°	Silver	White	Black
CLL173-A072	3 000K	CRI 80	800 Lm	13W	13W	•	•	•	•	•	•



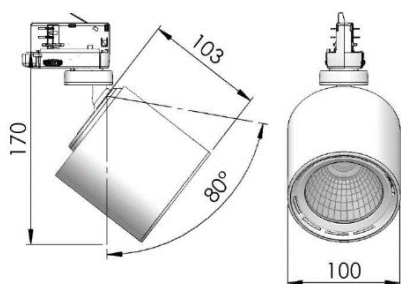
IP20

## GALLERIA AC

Galleria is a compact driverless LED spotlight. With lumen output options of 2000Lm and 3000Lm this luminaire packs a strong punch in a compact form.

<b>LIGHTSOURCE OPTIONS</b>	CRI 80 / 2700K, 3000K, 4000K
<b>COLOUR CONSISTENCY</b>	MacAdams 3 SDCM
<b>SERVICE LIFE</b>	40 000h
<b>LIGHT OUTPUT RATIO</b>	> 91%
<b>MATERIAL</b>	Powder painted die-cast aluminium
<b>INSTALLATION</b>	Available for Nordic Aluminium 1-phase and 3-phase tracks
<b>DIMMING</b>	Non-dimmable
<b>COOLING</b>	Passive cooling

Lightsource		Power				Beam angles			Colour		
LED-module	Colour temp.	CRI	Luminous flux	Module Wattage	System Wattage	15°	24°	35°	Silver	White	Black
CLL163-A180	3 000K	CRI 80	2 000Lm	24W	24W	•	•	•	•	•	•
CLL360-A128	3 000K	CRI 80	3 000Lm	38W	38W	•	•	•	•	•	•



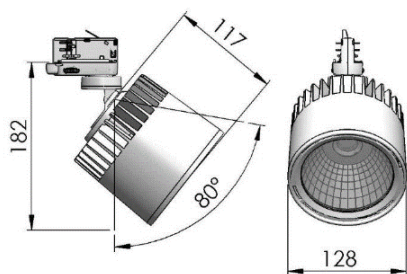
IP20

## CYLINDER AC MINI

Cylinder AC Mini is a small sized driverless LED spotlight that is perfect for accent lighting. The cylindrical shape exemplifies a harmonious architectural design.

<b>LIGHTSOURCE OPTIONS</b>	CRI 80 / 2700K, 3000K, 4000K
<b>COLOUR CONSISTENCY</b>	MacAdams 3 SDCM
<b>SERVICE LIFE</b>	40 000h
<b>LIGHT OUTPUT RATIO</b>	> 90%
<b>MATERIAL</b>	Powder painted die-cast aluminium
<b>INSTALLATION</b>	Available for Nordic Aluminium 1-phase and 3-phase tracks
<b>DIMMING</b>	Non-dimmable
<b>COOLING</b>	Passive cooling

Lightsource		Power				Beam angles			Colour		
LED-module	Colour temp.	CRI	Luminous flux	Module Wattage	System Wattage	15°	24°	35°	Silver	White	Black
CLL173-A072	3 000K	CRI 80	985 Lm	16W	16W	•	•	•	•	•	•
CLL163-A180	3 000K	CRI 80	2 340Lm	31W	31W	•	•	•	•	•	•



IP20

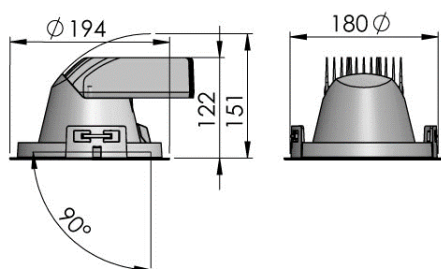
## CYLINDER AC

Cylinder AC is the most powerful driverless LED spotlight. With its compact design and lumen output up to 3300Lm this luminaire performs well in retail environments. The cylindrical shape is a strong alternative to traditional design.

<b>LIGHTSOURCE OPTIONS</b>	CRI 80 / 2700K, 3000K, 4000K
<b>COLOUR CONSISTENCY</b>	MacAdams 3 SDCM
<b>SERVICE LIFE</b>	40 000h
<b>LIGHT OUTPUT RATIO</b>	> 91%
<b>MATERIAL</b>	Powder painted die-cast aluminium
<b>INSTALLATION</b>	Available for Nordic Aluminium 1-phase and 3-phase tracks
<b>DIMMING</b>	Non-dimmable
<b>COOLING</b>	Passive cooling

Lightsource		Power				Beam angles			Colour		
LED-module	Colour temp.	CRI	Luminous flux	Module Wattage	System Wattage	15°	24°	35°	Silver	White	Black
CLL163-A180	3 000K	CRI 80	2 340Lm	31W	31W	•	•	•	•	•	•
CLL360-A128	3 000K	CRI 80	3 300Lm	39W	39W	•	•	•	•	•	•





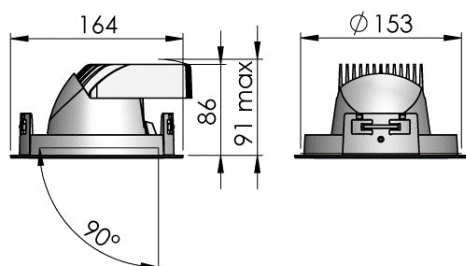
IP20

## LEAN DL AC

Lean DL AC is a versatile luminaire fully made of die-cast aluminium. The luminaire tilts 90° and turns 355° which enables versatile light planning – exceptionally good for lighting walls and shelves.

<b>LIGHTSOURCE OPTIONS</b>	CRI 80 / 2700K, 3000K, 4000K
<b>COLOUR CONSISTENCY</b>	MacAdams 3 SDCM
<b>SERVICE LIFE</b>	40 000h
<b>LIGHT OUTPUT RATIO</b>	> 91%
<b>MATERIAL</b>	Powder painted die-cast aluminium
<b>INSTALLATION</b>	Installation cut-out diameter 180mm, maximum ceiling thickness 25mm, spring mounted, no tools required
<b>DIMMING</b>	Non-dimmable
<b>COOLING</b>	Passive cooling
<b>ACCESSORIES</b>	Food filters: fruit, vegetable, fish, meat & bakery

Lightsource		Power				Beam angles			Colour		
LED-module	Colour temp.	CRI	Luminous flux	Module Wattage	System Wattage	15°	24°	35°	Silver	White	Black
CLL163-A180	3 000K	CRI 80	2 000Lm	24W	24W	•	•	•	•	•	•
CLL360-A128	3 000K	CRI 80	3 000Lm	38W	38W	•	•	•	•	•	•



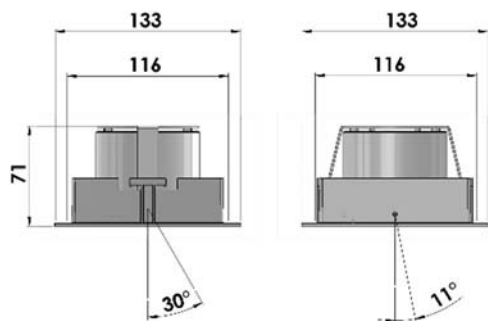
IP20

## MINI LEAN DL AC

Mini Lean DL AC a small and elegant recessed luminaire. It is particularly well suited for accent lighting. The luminaire tilts 90° and turns 355° which enables versatile light planning.

<b>LIGHTSOURCE OPTIONS</b>	CRI 80 / 2700K, 3000K, 4000K
<b>COLOUR CONSISTENCY</b>	MacAdams 3 SDCM
<b>SERVICE LIFE</b>	40 000h
<b>LIGHT OUTPUT RATIO</b>	> 86%
<b>MATERIAL</b>	Powder painted die-cast aluminium
<b>INSTALLATION</b>	Installation cut-out diameter 150mm, maximum ceiling thickness 25mm, spring mounted, no tools required
<b>DIMMING</b>	Non-dimmable
<b>COOLING</b>	Passive cooling

Lightsource		Power				Beam angles			Colour		
LED-module	Colour temp.	CRI	Luminous flux	Module Wattage	System Wattage	15°	24°	35°	Silver	White	Black
CLL173-A072	3 000K	CRI 80	800 Lm	13W	13W	•	•	•	•	•	•
CLL163-A180	3 000K	CRI 80	2 000Lm	24W	24W	•	•	•	•	•	•



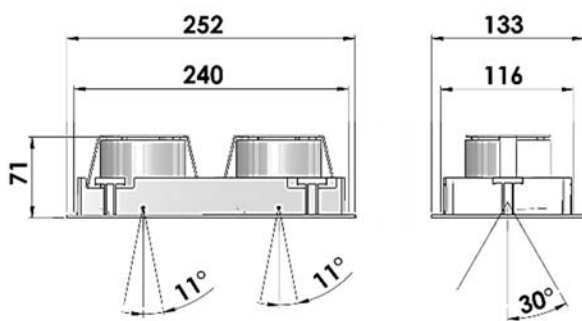
IP20

## CASA DL AC

Casa DL AC is a small and driverless cardanic downlight. It is perfect for replacing halogen luminaires with no need for maintenance and improved energy efficiency.

<b>LIGHTSOURCE OPTIONS</b>	CRI 80 / 2700K, 3000K, 4000K
<b>COLOUR CONSISTENCY</b>	MacAdams 3 SDCM
<b>SERVICE LIFE</b>	40 000h
<b>LIGHT OUTPUT RATIO</b>	> 87%
<b>MATERIAL</b>	Powder painted die-cast aluminium
<b>INSTALLATION</b>	Installation cut-out 116mm x 116mm, maximum ceiling thickness 25mm, spring mounted, no tools required
<b>DIMMING</b>	Non-dimmable
<b>COOLING</b>	Passive cooling

Lightsource		Power				Beam angles		Colour		
LED-module	Colour temp.	CRI	Luminous flux	Module Wattage	System Wattage	15°	24°	Silver	White	Black
CLL173-A072	3 000K	CRI 80	985 Lm	16W	16W	•	•	•	•	•



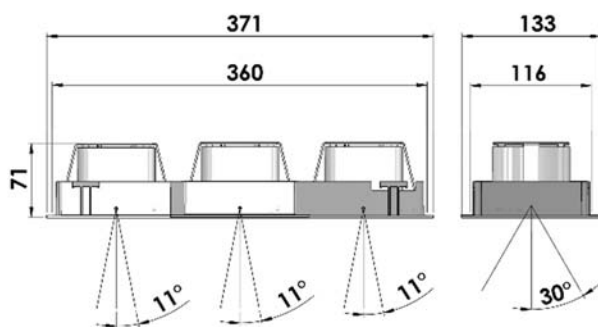
IP20

## CASA DL AC DUO

Casa DL AC Duo is a small and driverless cardanic downlight. It is perfect for replacing halogen luminaires with no need for maintenance and improved energy efficiency.

<b>LIGHTSOURCE OPTIONS</b>	CRI 80 / 2700K, 3000K, 4000K
<b>COLOUR CONSISTENCY</b>	MacAdams 3 SDCM
<b>SERVICE LIFE</b>	40 000h
<b>LIGHT OUTPUT RATIO</b>	> 87%
<b>MATERIAL</b>	Powder painted die-cast aluminium
<b>INSTALLATION</b>	Installation cut-out 116mm x 240mm, maximum ceiling thickness 25mm, spring mounted, no tools required
<b>DIMMING</b>	Non-dimmable
<b>COOLING</b>	Passive cooling

Lightsource		Power				Beam angles		Colour		
LED-module	Colour temp.	CRI	Luminous flux	Module Wattage	System Wattage	15°	24°	Silver	White	Black
CLL173-A072	3 000K	CRI 80	985 Lm	16W	16W	•	•	•	•	•



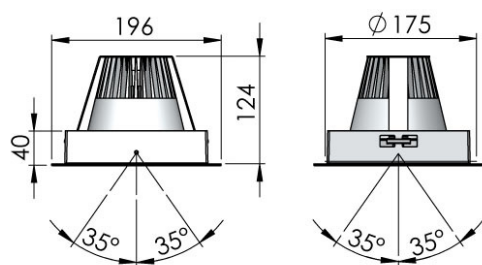
IP20

## CASA DL AC TRIO

Casa DL AC Trio is a small and driverless cardanic downlight. It is perfect for replacing halogen luminaires with no need for maintenance and improved energy efficiency.

<b>LIGHTSOURCE OPTIONS</b>	CRI 80 / 2700K, 3000K, 4000K
<b>COLOUR CONSISTENCY</b>	MacAdams 3 SDCM
<b>SERVICE LIFE</b>	40 000h
<b>LIGHT OUTPUT RATIO</b>	> 87%
<b>MATERIAL</b>	Powder painted die-cast aluminium
<b>INSTALLATION</b>	Installation cut-out 116mm x 360mm, maximum ceiling thickness 25mm, spring mounted, no tools required
<b>DIMMING</b>	Non-dimmable
<b>COOLING</b>	Passive cooling

Lightsource		Power				Beam angles		Colour		
LED-module	Colour temp.	CRI	Luminous flux	Module Wattage	System Wattage	15°	24°	Silver	White	Black
CLL173-A072	3 000K	CRI 80	985 Lm	16W	16W	•	•	•	•	•



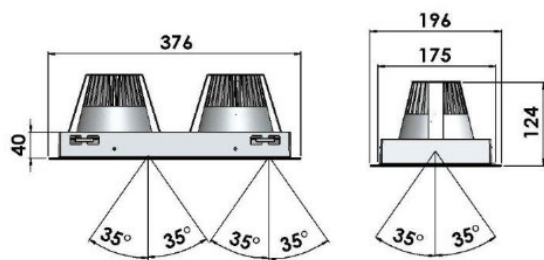
IP20

## FIRST AC

First AC is a driverless cardanic downlight particularly well suited for creating clean and flush suspended ceilings. The die-cast aluminium body makes the luminaire strong and firm.

<b>LIGHTSOURCE OPTIONS</b>	CRI 80 / 2700K, 3000K, 4000K
<b>COLOUR CONSISTENCY</b>	MacAdams 3 SDCM
<b>SERVICE LIFE</b>	40 000h
<b>LIGHT OUTPUT RATIO</b>	> 91%
<b>MATERIAL</b>	Powder painted die-cast aluminium
<b>INSTALLATION</b>	Installation cut-out 180mm x 180mm, maximum ceiling thickness 25mm, spring mounted, no tools required
<b>DIMMING</b>	Non-dimmable
<b>COOLING</b>	Passive cooling
<b>ACCESSORIES</b>	Food filters: fruit, vegetable, fish, meat & bakery

Lightsource		Power				Beam angles			Colour		
LED-module	Colour temp.	CRI	Luminous flux	Module Wattage	System Wattage	15°	24°	35°	Silver	White	Black
CLL163-A180	3 000K	CRI 80	2 000Lm	24W	24W	•	•	•	•	•	•
CLL360-A128	3 000K	CRI 80	3 000Lm	38W	38W	•	•	•	•	•	•



IP20

**LIVAL**

## FIRST AC DUO

First AC Duo is a driverless cardanic downlight particularly well suited for creating clean and flush suspended ceilings. The die-cast aluminium body makes the luminaire strong and firm.

### LIGHTSOURCE OPTIONS

CRI 80 / 2700K, 3000K, 4000K

### COLOUR CONSISTENCY

MacAdams 3 SDCM

### SERVICE LIFE

40 000h

### LIGHT OUTPUT RATIO

> 91%

### MATERIAL

Powder painted die-cast aluminium

### INSTALLATION

Installation cut-out 180mm x 355mm, maximum ceiling thickness

25mm, spring mounted, no tools required

### DIMMING

Non-dimmable

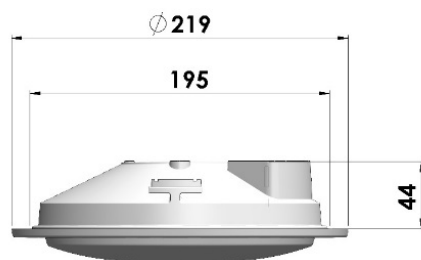
### COOLING

Passive cooling

### ACCESSORIES

Food filters: fruit, vegetable, fish, meat & bakery

Lightsource		Power				Beam angles			Colour		
LED-module	Colour temp.	CRI	Luminous flux	Module Wattage	System Wattage	15°	24°	35°	Silver	White	Black
CLL163-A180	3 000K	CRI 80	2 000Lm	24W	24W	•	•	•	•	•	•
CLL360-A128	3 000K	CRI 80	3 000Lm	38W	38W	•	•	•	•	•	•



IP20

# HONY-R AC

The Hony R-version is a great value recessed luminaire with a even lower profile (only 44mm!). This luminaire is ideal for installation in suspended ceilings with little room! Easy installation combined with no maintenance required makes Hony AC a solid choice! Luminaire beam angle is 100°.

<b>LIGHTSOURCE OPTIONS</b>	CRI 80 / 2700K, 3000K, 4000K
<b>COLOUR CONSISTENCY</b>	MacAdams 3 SDCM
<b>SERVICE LIFE</b>	40 000h
<b>LIGHT OUTPUT RATIO</b>	n/a
<b>MATERIAL</b>	Powder painted die-cast aluminium
<b>INSTALLATION</b>	Installation cut-out diameter 200mm, maximum ceiling thickness 25mm, spring mounted, no tools required
<b>DIMMING</b>	Non-dimmable
<b>COOLING</b>	Passive cooling

Lightsource		Power				Beam angles			Colour		
LED-module	Colour temp.	CRI	Luminous flux	Module Wattage	System Wattage	15°	24°	35°	Silver	White	Black
CLL173-A072	3 000K	CRI 80	985 Lm	16W	16W	•	•	•	•	•	•
CLL163-A180	3 000K	CRI 80	2 340Lm	31W	31W	•	•	•	•	•	•



# MCB TABLE

Lightsource	B-Type				C-Type			
	10A	16A	20A	25A	10A	16A	20A	25A
CLU034-1206	31	50	62	78	52	85	104	130
CLU034-1206	31	50	62	78	52	85	104	130
CLU034-1208	18	30	37	46	31	51	62	78
CLU034-1208	18	30	37	46	31	51	62	78
CLU044-1212	18	30	37	46	31	51	62	78
CLU044-1212	18	30	37	46	31	51	62	78
AC LED	18	30	37	46	31	51	62	78

# PHOTOMETRICS

Photometrical data is available on LIVAL e-catalogue – downloadable online:

[www.lival.com/downloads/downloads\\_3.html](http://www.lival.com/downloads/downloads_3.html)

## DIALux evo

