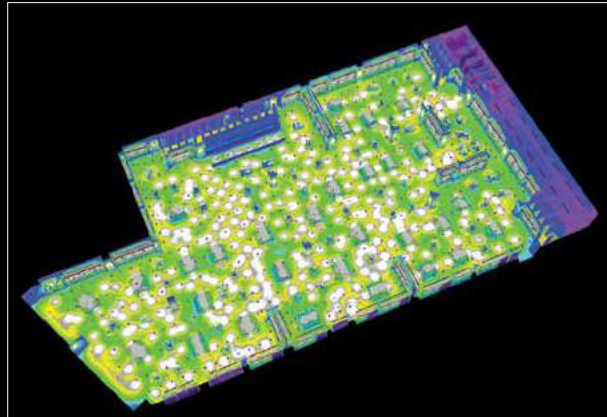
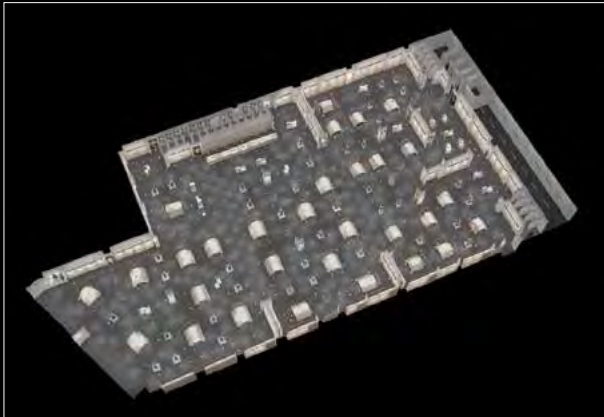
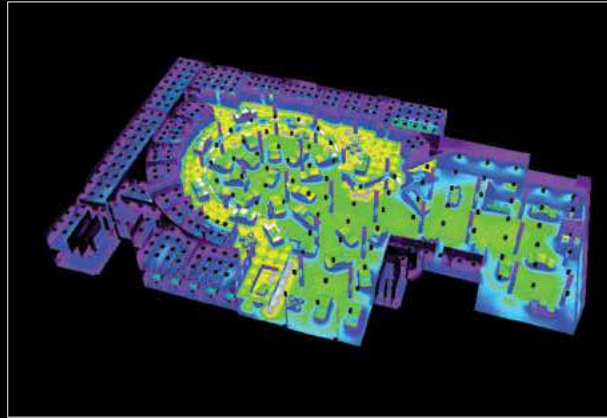
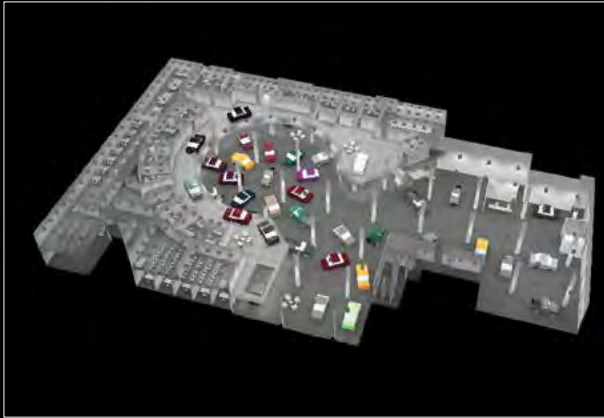


PONTLIGHT

By **Lumotronic®**
LED LIGHTING & ELECTRONIC COMPONENTS



Technical lighting



Project Design

Our lighting design team provides consultancy service for lighting design. Thus, we share our experience with you to create the lighting effect that you dream.

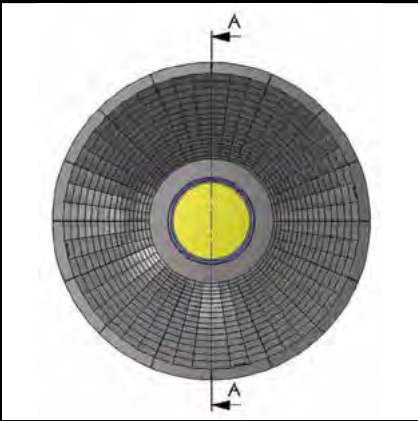
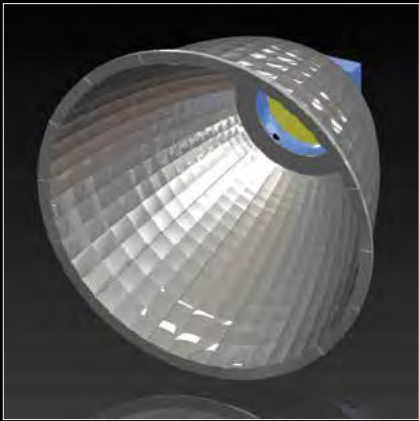
Our team is skilled to create both indoor and outdoor light design with Dialux. Furthermore outdoor facade and landscape light design can be created by our team with 3D max.



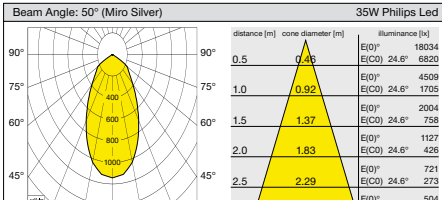
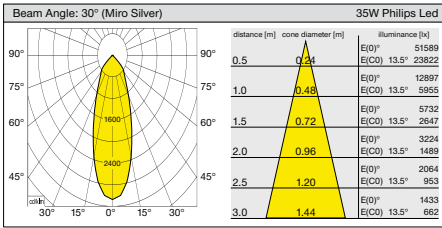
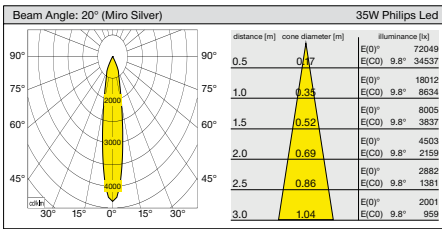
Product Design

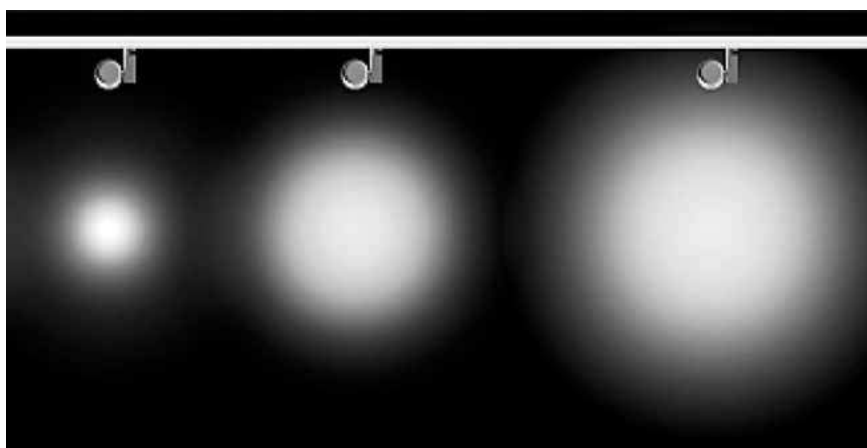
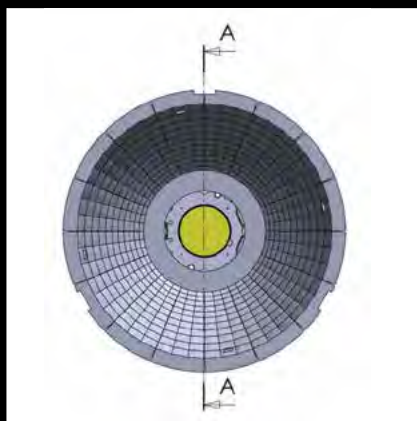
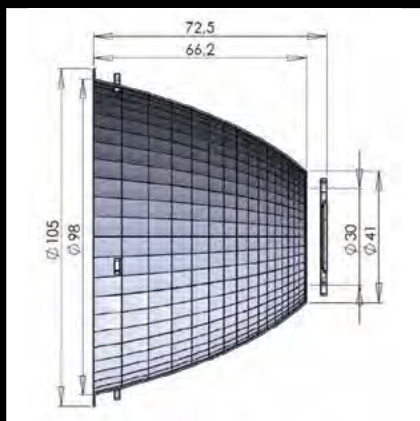
Our product design and development team continuously develops projects on new product solutions. Scope of design process includes easy installation solutions on site, stylish outer shapes and functionality in terms of efficiency of light output and beam angle control.

Segmented Miro Silver - Perfect Performance



PontLight in collaboration with Jordan Luxar, created an excellent efficiency performance in its spotlights with Miro Silver reflector technology. Depending on application and beam angle requirement, both Miro 4 Silver shiny surface and Miro 20 Silver matt surface is being used. Unique design of faceted finish enables excellent clean light output.





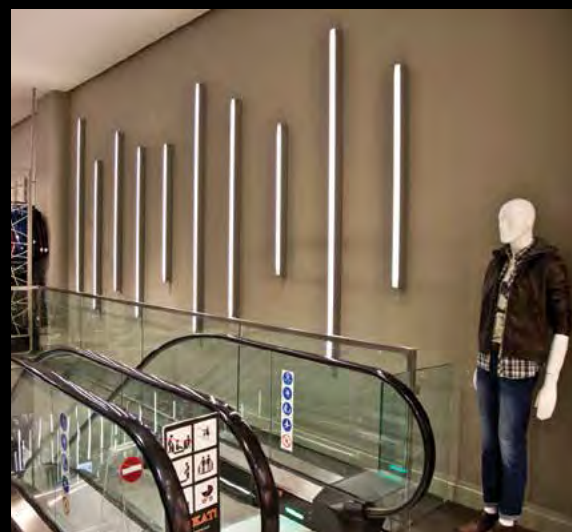
A visually inspiring shop display is one of the most powerful tools by which to make your store stand out from others. It must capture attention and curiosity and interest to those passing through. Lighting has direct effect on the emotional behaviour of the consumers. Min. CRI>90 LED option being preferred to increase the display of the colors whereas the frequency of the spotlights are planned to create brilliant light level throughout the shop floor. Pont Light spotlights with high efficient reflector optic ensures all these parameters for Pont Light partners for all their stores worldwide.





Main principle of lighting in Koton stores is to provide point emphasizes on the objects displayed. More light on the displays and less on floor by carefully directing the triple gimbals throughout shopfloor. Light level is very critical. Minimum 2000lux required on display areas. To meet this demand, 42W 5000lm LED spotlight applications preferred for general illumination.





Continuous linear LED lines chosen to illuminate the stairs connecting lower level with upper floor. Creates a nice look and effective lighting solution as well.

Koleksiyon Mobilya is one of the most prestigious furniture retailer in Turkey. Their latest showroom in Ankara has been illuminated by PontLight. 3000K warm white color option has been chosen to create warm environment. Positioning of the spotlights planned accoring to the principle of less light on the walking areas and even light distribution on the displays throughout whole showroom area.





Even light distribution on the big displays like sofa is the most important criteria. PontLight project team carefully designed the beam angle and position of the spotlights upon the furniture plan provided by Koleksiyon Group.

Volkswagen's biggest showroom in Trakya region of Turkey has chosen PontLight lighting. The main criteria in sales area is to plan even light distribution on cars displayed. Dimensions of the cars are considerably big. For that reason number of spotlights to be used together with beam angle choice has been carefully planned considering the ceiling height of the showroom. Special 4000K CRI>90 neutral white LED alternative was the most important keypoint for success in this application.

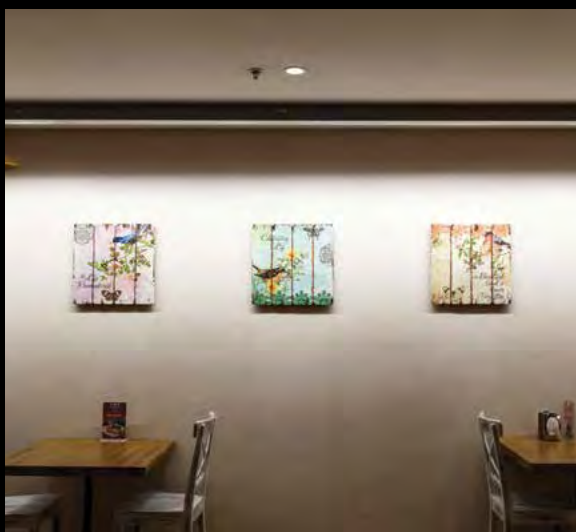


Lux level on the cars planned in average 1200lux.



Supermarkets are spread over a very large area and as such require a certain level of homogeneous and uniform lighting to enable navigation and the sufficient illumination of all products. We recommend minimum 300lux at floor level where as 600lux on the shelves. PontLight designed led lines that can be used with single and double asymmetric reflector optics for such purposes. Real, one of the Turkey's highest level supermarket chain chosen PontLight fixtures to illuminate Gebze branch. Combination of linear LED lines, tracklights and highbay fixtures enabled to implement different lighting solutions at the same time.





Single asymmetric LED lines provided excellent even light distribution on the wall whereas wide beam angle tracklights chosen to illuminate the beverage shelves.



Multichip LED
Tracklight



Ray Maxi
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Ray
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Ray Mini
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Cappadocia Maxi
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Cappadocia Mini
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**Cappadocia
Maxi Deco**
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**Cappadocia
Mini Deco**
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**Cappadocia
Maxi Zigzag**
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Bavyera
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Mini Bavyera
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Silindir Maxi
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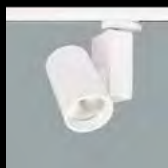
Silindir Mini
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Canon
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Yarasa
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Graze
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Pico
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Multichip LED
Recessed



Delta
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Mini Torres
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Zebra
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Mini Zebra
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Manna
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Manna
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Manna
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Manna Mini
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Manna Mini
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Trimo
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Trimo
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Mini Trimo
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Mini Trimo
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Minilux
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Minilux
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Zero Maxi
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Zero
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Zero Mini
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Deeptrim
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Deeptrim
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Power LED
Downright



**Neptun Mega
Downlight**
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**Neptun Maxi
Downlight**
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Neptun Downlight
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**Neptun Midi
Downlight**
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**Neptun Mini
Downlight**
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**Leila Mini
Downlight**
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**Leila Midi
Downlight**
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Leila Downlight
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**Leila Maxi
Downlight**
page 100

Multichip LED
Surface



Pipa Maxi
page 104



Pipa
page 105



Pipa Midi
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Pipa Mini
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Multichip LED
Pendant



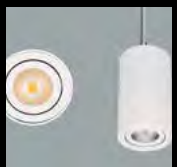
**Pipa Maxi
Pendant**
page 110



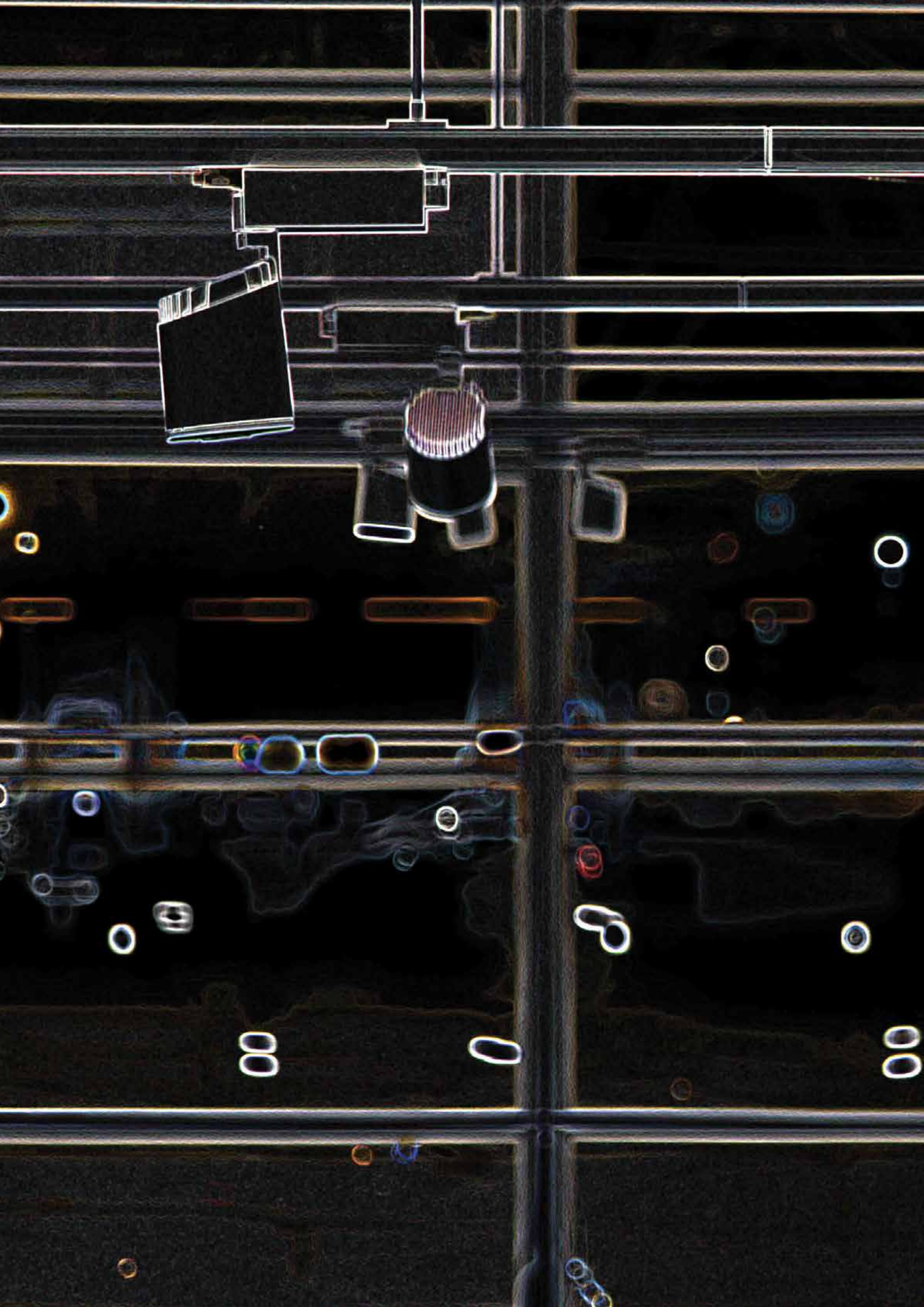
Pipa Pendant
page 111

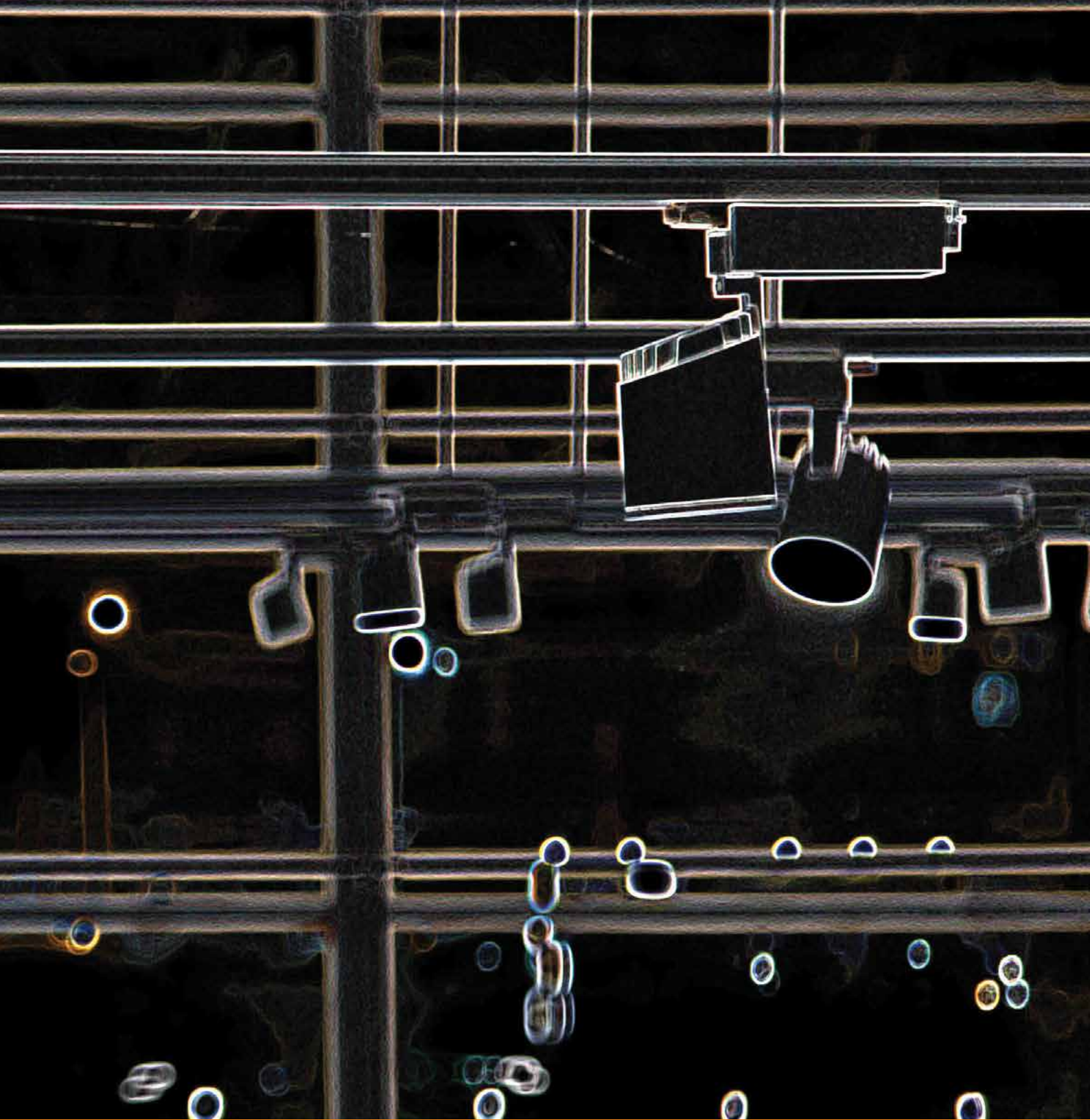


**Pipa Midi
Pendant**
page 112

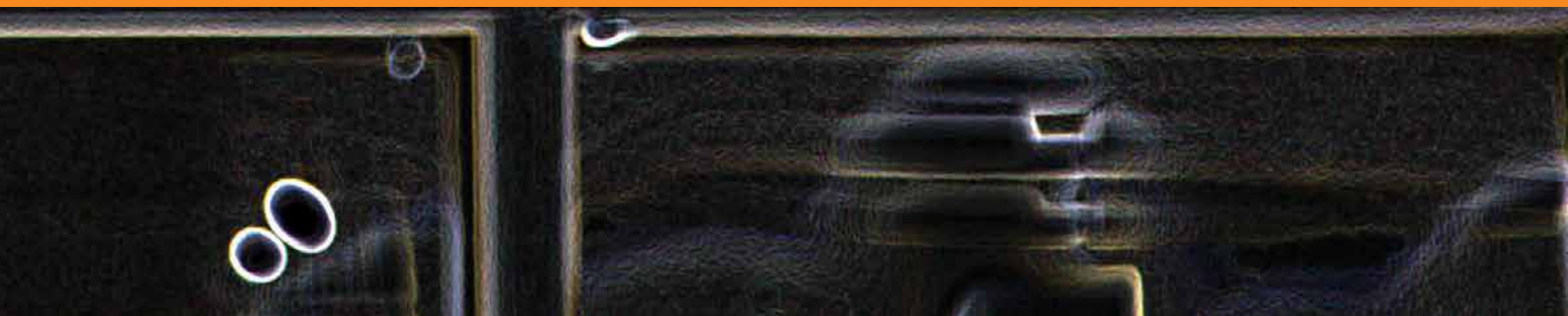


**Pipa Mini
Pendant**
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> Multichip LED Tracklight



RAY Tracklight

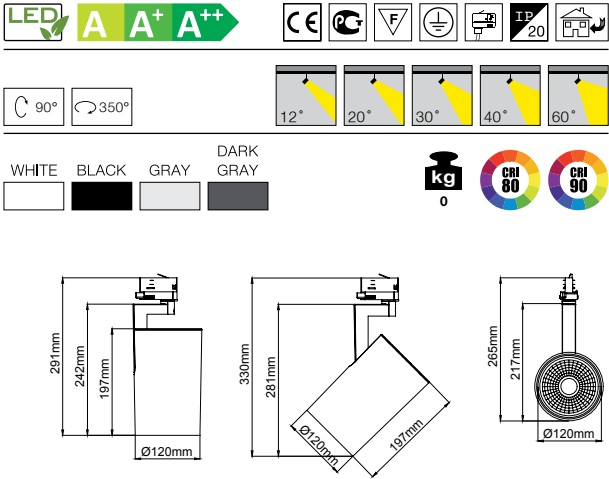




RAY spot range is magnificent design for tracklight applications. Driver and lamp house integrated into single cylindrical housing and alternatively gearbox can be separated for higher flux requirements. Classical Pont Light segmented Miro Silver reflector with LOR 93% light efficiency used with RAY spotlights. Different accessories can be integrated to front ring enables architects to use this spotlight range in various different applications.





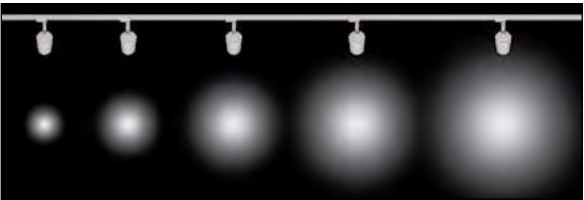
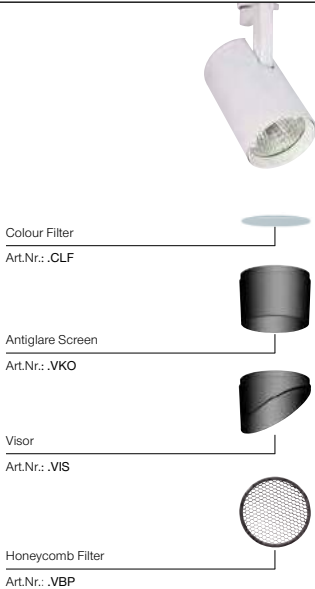


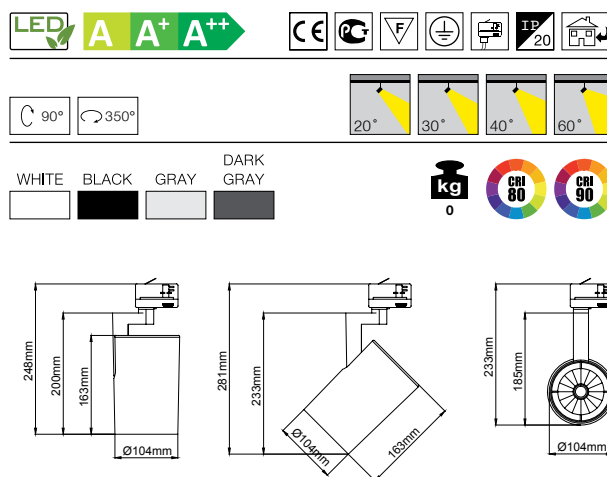
- Die-cast aluminium body.
- Mains voltege: 220-240V / 50-60Hz.
- Clever thermal design.
- With 3-phase universal track adaptor.
- 1-10V, DALI and switch dimming options available upon request.
- Dimming option with integrated potentiometer.
- Clear safety glass.
- Basic colours: white, black, silver, dark silver and special color options.
- Honeycomb filter, colour filter, antiglare screen and visor accesories available.
- Narrow, medium and wide beam angle options available with rotationally symmetric light distribution.

Ray Maxi / I01.MLT.19160

LED		COB LED
Led Power		32W
System Power		35W
Lumen Output from Fixture CRI>80	2700K	4110
	3000K	4240
	3500K	4360
	4000K	4500
	5000K	4640
Lumen Output from Fixture CRI>90	2700K	3700
	3000K	3820
	3500K	3950
	4000K	4050
Meat	1800K	2385
	2400K	2460
Mains Switch Dim Option		✓
1-10V Dimming Option		✓
Dali Dimming Option		✓

Accessories

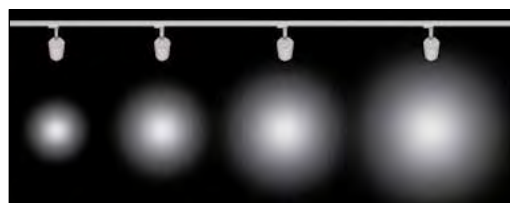
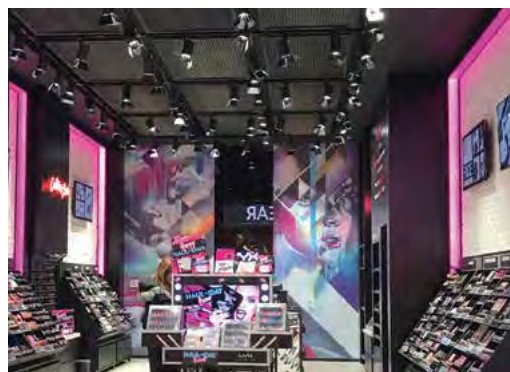




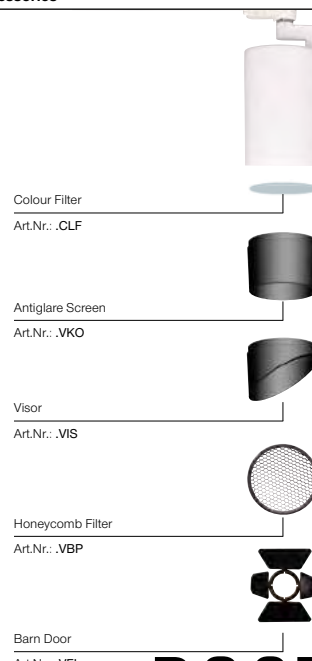
- Die-cast aluminium body.
- Mains voltage: 220-240V / 50-60Hz.
- Clever thermal design.
- With 3-phase universal track adaptor.
- 1-10V, DALI and switch dimming options available upon request.
- Clear safety glass.
- Basic colours: white, black, silver, dark silver and special color options.
- Honeycomb filter, barn door, colour filter, antiglare screen and visor accessories available.
- Narrow, medium and wide beam angle options available with rotationally symmetric light distribution.

Ray / I01.MLT.18160

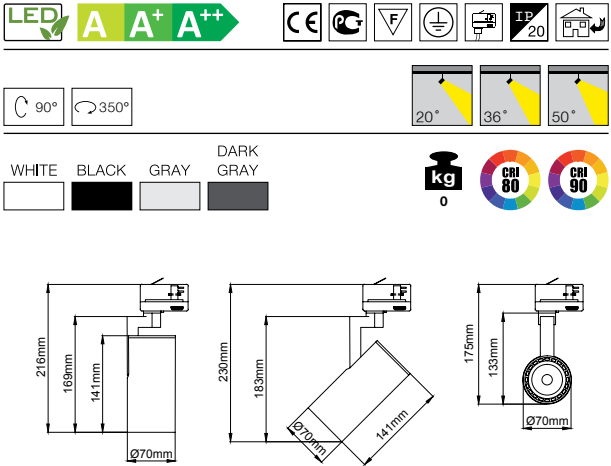
LED		COB LED
Led Power		29W
System Power		31W
Lumen Output from Fixture CRI>80	2700K	3390
	3000K	3495
	3500K	3600
	4000K	3710
	5000K	3820
Lumen Output from Fixture CRI>90	2700K	3050
	3000K	3145
	3500K	3240
	4000K	3340
	5000K	X
Meat COB	1800K	1965
Food COB	2400K	2025
Mains Switch Dim Option		✓
1-10V Dimming Option		✓
Dali Dimming Option		✓



Accessories



PONTLIGHT



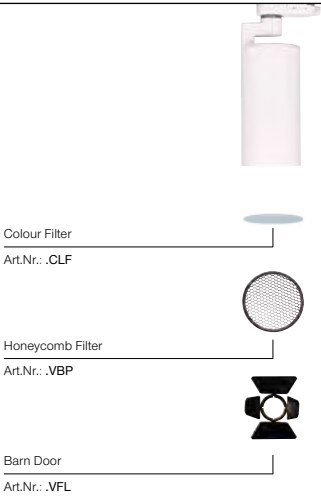
- Die-cast aluminium body.
- Mains voltege: 220-240V / 50-60Hz.
- Clever thermal design.
- With 3-phase universal track adaptor.
- 1-10V, DALI and switch dimming options available upon request.
- Dimming option with integrated potentiometer.
- Clear safety glass.
- Basic colours: white, black, silver, dark silver and special color options.
- Honeycomb filter, colour filter, antiglare screen and visor accesories available.
- Narrow, medium and wide beam angle options available with rotationally symmetric light distribution.

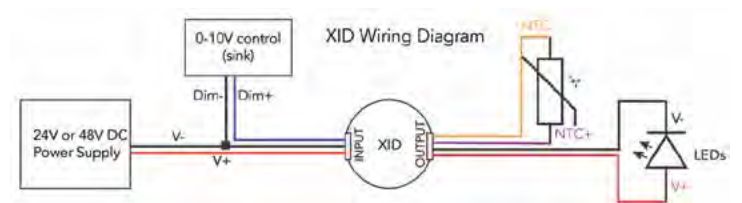
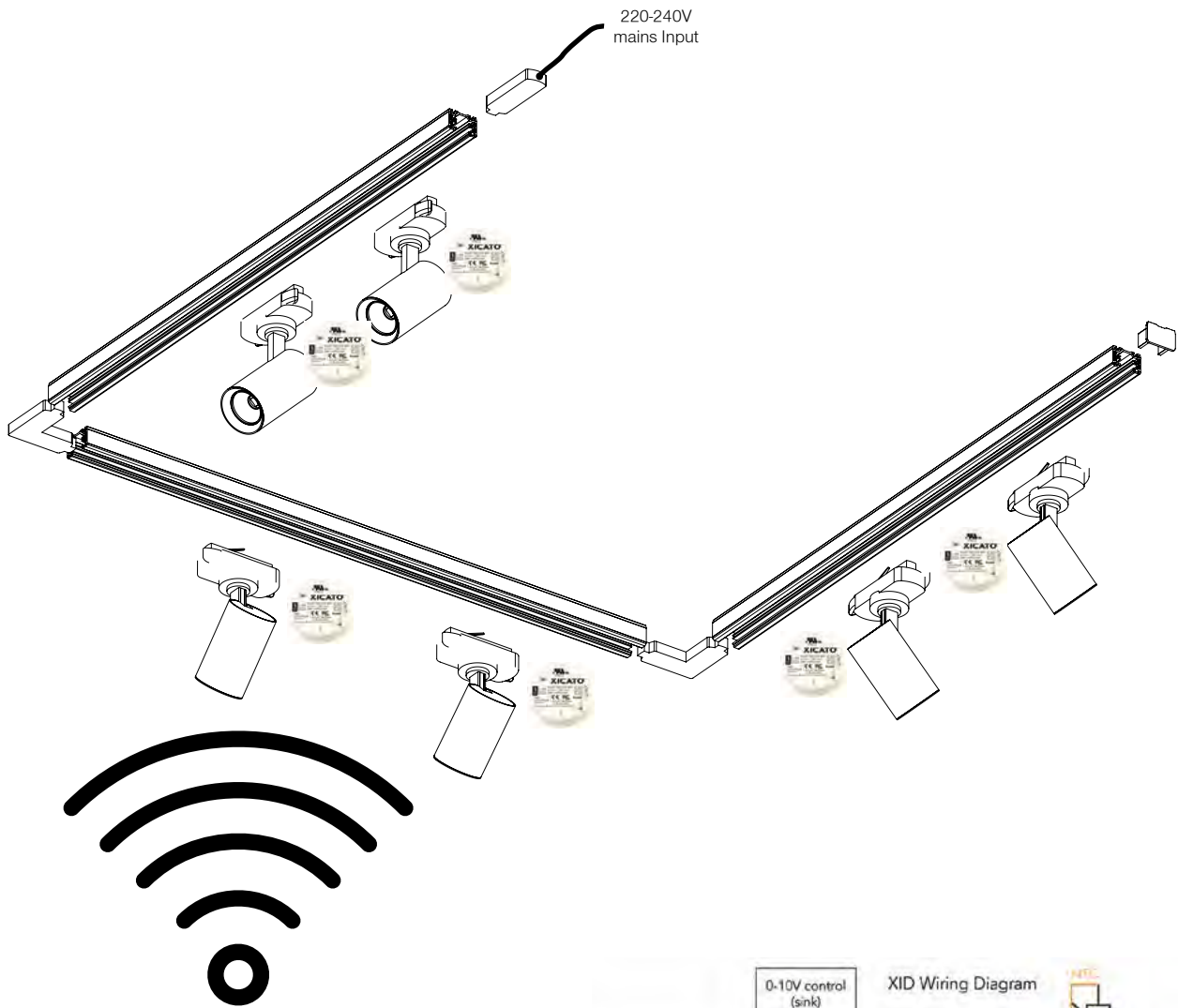
Ray Mini / I01.MLT.17160

LED		COB LED
Led Power		13W
System Power		14W
Lumen Output from Fixture CRI>80	2700K	1470
	3000K	1517
	3500K	1560
	4000K	1610
	5000K	1650
Lumen Output from Fixture CRI>90	2700K	1325
	3000K	1365
	3500K	1405
	4000K	1450
Meat COB	1800K	X
Food COB	2400K	X
Mains Switch Dim Option		✓
1-10V Dimming Option		✓
Dali Dimming Option		✓
Wireless Dim		✓

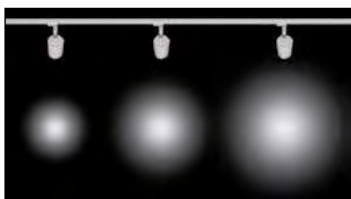


Accessories





Lens optic enables effective beam angle control from superspot to wide beam angle choices.



Feature	Specification
Processor	ARM Cortex M0, 32-bit, 48 MHz
Wireless Protocol	Bluetooth Low Energy v4.1
Wireless Spectrum	2.4 GHz ISM band
Bandwidth	1 Mbps
Channels	40
Transmit Power	Configurable to +1.5dBm or +7.5 dBm
Receive Sensitivity	-93 dBm
RSSI Resolution	1 dBm
Signal to Noise Ratio (SNR)	> 5:1

By simply downloading the XIMtroller application, you can control the Xicato XID module integrated PICO's by bluetooth wireless signal.

CAPPADOCIA Tracklight

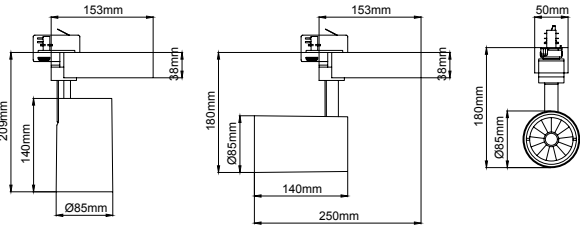
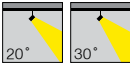
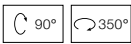


Narrow minimal gearbox.
Width is not more than track
itself creates high architectural
look.



CAPPADOCIA, the powerful spotlight series with up to 4000lm fulfills even most demanding lighting requirements. Minimal driver box and lamp house integration creates aesthetic look. Classical segmented Miro Silver reflector with LOR 93% light efficiency used with CAPPADOCIA spotlights. Different accessories can be integrated to front ring enables architects to use this spotlight range in various different applications.



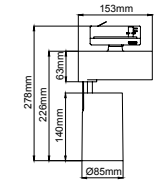
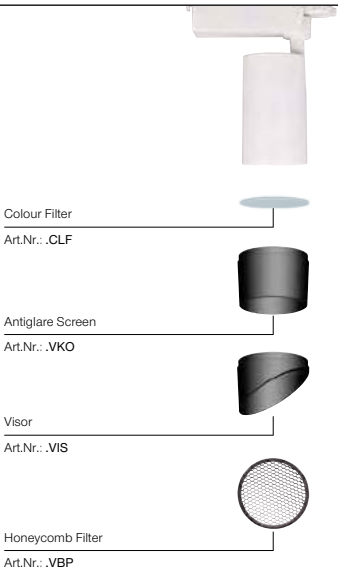


- Die-cast aluminium body.
- Mains voltage: 220-240V / 50-60Hz.
- Clever thermal design.
- With 3-phase universal track adaptor.
- DALI dimming option available upon request with alternative driver box.
- Clear safety glass.
- Basic colours: white, black, silver, dark silver and special color options.
- Honeycomb filter, colour filter, antiglare screen and visor accesories available.
- Narrow and medium beam angle options available with rotationally symmetric light distribution.

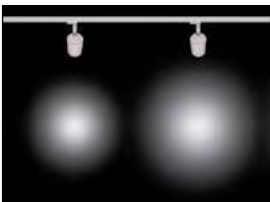
Cappadocia Maxi / IO1.MLT.26160

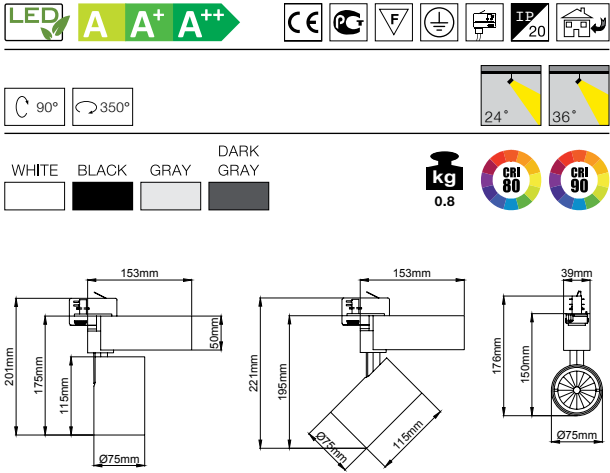
LED		COB LED
Led Power		32W
System Power		35W
Lumen Output from Fixture CRI>80	2700K	3915
	3000K	4035
	3500K	4150
	4000K	4280
	5000K	4400
Lumen Output from Fixture CRI>90	2700K	3520
	3000K	3630
	3500K	3740
	4000K	3850
	5000K	X
Meat COB	1800K	2270
Food COB	2400K	2340
Mains Switch Dim Option		X
1-10V Dimming Option		X
Dali Dimming Option		✓

Accessories



In Dali dimmable version, size/shape of the driver box changes.

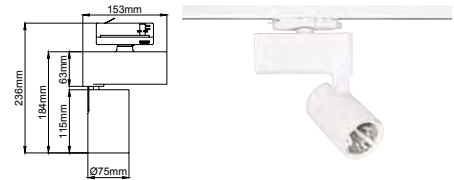




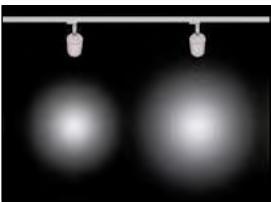
- Die-cast aluminium body.
- Mains voltage: 220-240V / 50-60Hz.
- Clever thermal design.
- With 3-phase universal track adaptor.
- DALI dimming option available upon request with alternative driver box.
- Clear safety glass.
- Basic colours: white, black, silver, dark silver and special color options.
- Honeycomb filter, colour filter, antiglare screen and visor accesories available.
- Narrow and medium beam angle options available with rotationally symmetric light distribution.

Cappadocia Mini / I01.MLT.16160

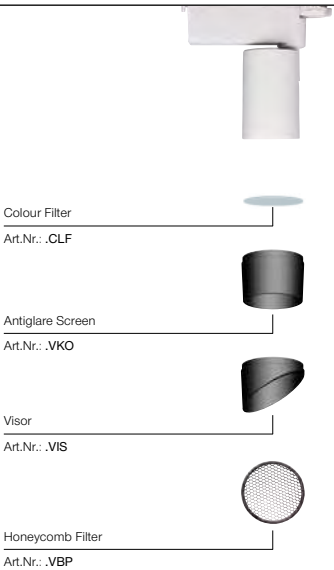
LED		COB LED
Led Power		25W
System Power		27W
Lumen Output from Fixture CRI>80	2700K	2885
	3000K	2976
	3500K	3065
	4000K	3155
	5000K	3250
Lumen Output from Fixture CRI>90	2700K	2800
	3000K	2885
	3500K	2970
	4000K	3060
	5000K	X
Meat COB	1800K	X
Food COB	2400K	X
Mains Switch Dim Option		X
1-10V Dimming Option		X
Dali Dimming Option		✓

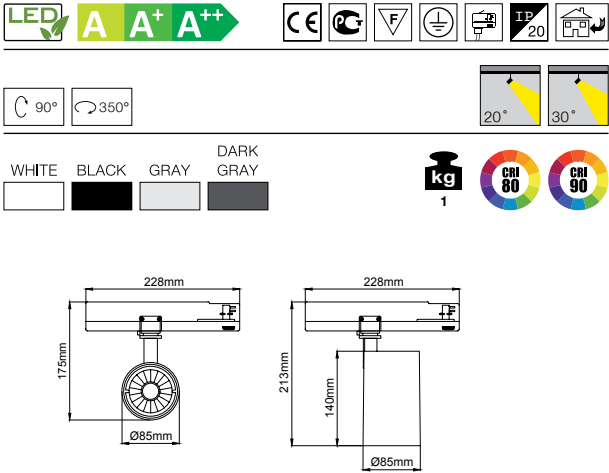


In Dali dimmable version, size/shape of the driver box changes.



Accessories



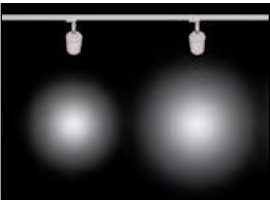
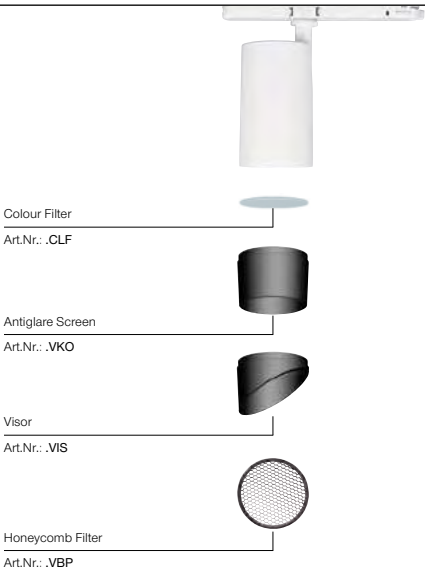


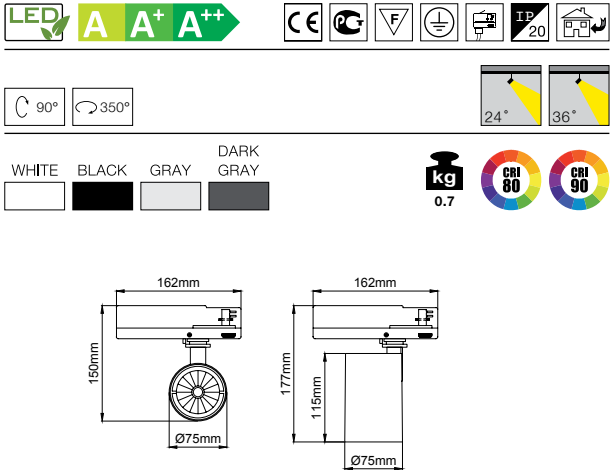
- Die-cast aluminium body.
- Mains voltage: 220-240V / 50-60Hz.
- Clever thermal design.
- With 3-phase universal track adaptor with integrated led driver.
- Clear safety glass.
- Basic colours: white, black, silver, dark silver and special color options.
- Honeycomb filter, colour filter, antiglare screen and visor accessories available.
- Narrow and medium beam angle options available with rotationally symmetric light distribution.
- Integrated driver and track adaptor system minimizes the appearance of the fitting.

Cappadocia Maxi Deco / I01.MLT.26165

LED		COB LED
Led Power		26W
System Power		28W
Lumen Output from Fixture CRI>80	2700K	3240
	3000K	3340
	3500K	3440
	4000K	3545
	5000K	3650
Lumen Output from Fixture CRI>90	2700K	2950
	3000K	3040
	3500K	3130
	4000K	3220
Meat COB	1800K	X
Food COB	2400K	X
Mains Switch Dim Option		X
1-10V Dimming Option		X
Dali Dimming Option		X

Accessories





- Die-cast aluminium body.
- Mains voltage: 220-240V / 50-60Hz.
- Clever thermal design.
- With 3-phase universal track adaptor with integrated led driver.
- Clear safety glass.
- Basic colours: white, black, silver, dark silver and special color options.
- Honeycomb filter, colour filter, antiglare screen and visor accesories available.
- Narrow and medium beam angle options available with rotationally symmetric light distribution.
- Integrated driver and track adaptor system minimizes the appearance of the fitting.

Cappadocia Mini Deco / I01.MLT.16165

LED		COB LED
Led Power		22W
System Power		24W
Lumen Output from Fixture CRI>80	2700K	2650
	3000K	2740
	3500K	2820
	4000K	2900
	5000K	3000
Lumen Output from Fixture CRI>90	2700K	2400
	3000K	2470
	3500K	2540
	4000K	2620
	5000K	X
Meat COB	1800K	X
Food COB	2400K	X
Mains Switch Dim Option		X
1-10V Dimming Option		X
Dali Dimming Option		X

Accessories

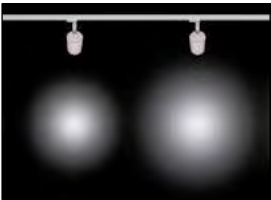


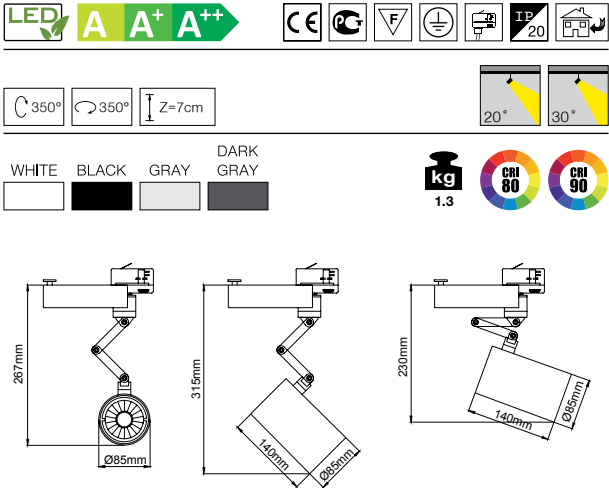
Colour Filter
Art.Nr.: .CLF

Antiglare Screen
Art.Nr.: .VKO

Visor
Art.Nr.: .VIS

Honeycomb Filter
Art.Nr.: .VBP



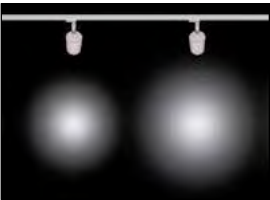
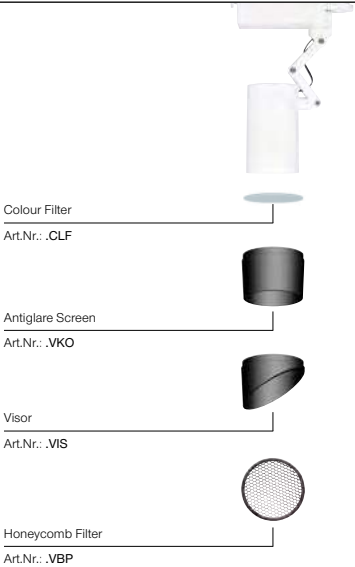


- Die-cast aluminium body.
- Mains voltage: 220-240V / 50-60Hz.
- Clever thermal design.
- With 3-phase universal track adaptor.
- DALI dimming option available upon request with alternative driver box.
- Clear safety glass.
- Basic colours: white, black, silver, dark silver and special color options.
- Honeycomb filter, colour filter, antiglare screen and visor accesories available.
- Narrow and medium beam angle options available with rotationally symmetric light distribution.
- Rotational arm structure maximizes the flexibility of the lamp house adjustment to different directions.

Cappadocia Maxi Zigzag / I01.MLT.26170

LED		COB LED
Led Power		32W
System Power		35W
Lumen Output from Fixture CRI>80	2700K	3915
	3000K	4035
	3500K	4150
	4000K	4280
	5000K	4400
Lumen Output from Fixture CRI>90	2700K	3520
	3000K	3630
	3500K	3740
	4000K	3850
Meat COB		1800K
Food COB		2400K
Mains Switch Dim Option		X
1-10V Dimming Option		X
Dali Dimming Option		✓

Accessories





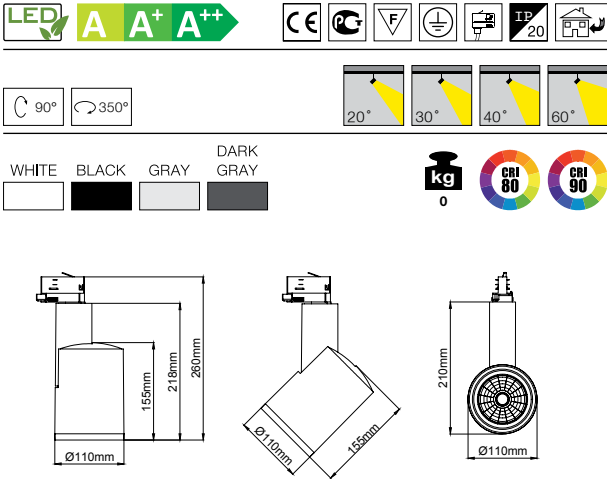
Thanks to its special design bracket system, Cappadocia Maxi Zigzag maximizes the flexibility of directing the lightsource. Can be used in many different applications including cove lighting, indirect track lighting applications etc.



BAVYERA Tracklight





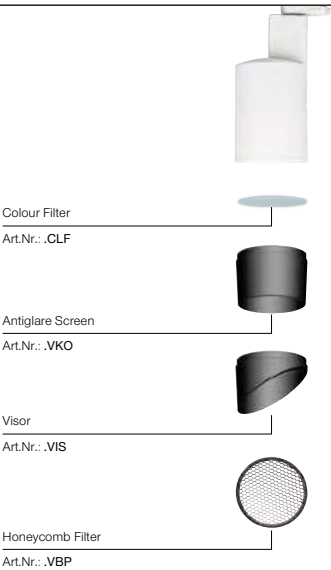
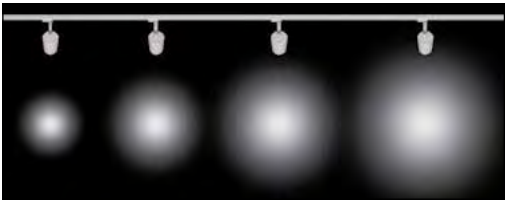


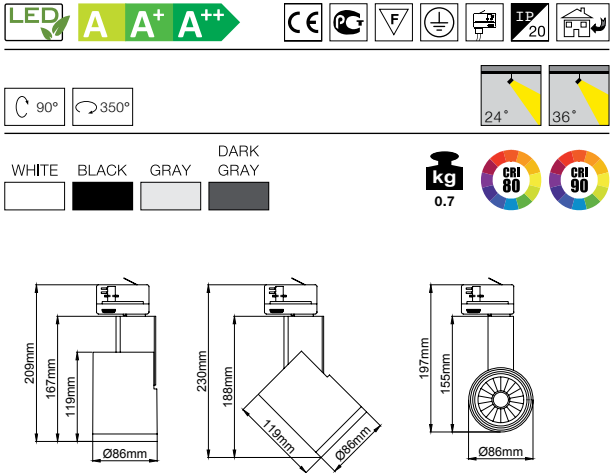
- Die-cast aluminium body.
- Mains voltage: 220-240V / 50-60Hz.
- Clever thermal design.
- With 3-phase universal track adaptor.
- DALI dimming option available upon request with alternative driver box.
- Clear safety glass.
- Basic colours: white, black, silver, dark silver and special color options.
- Honeycomb filter, colour filter, antiglare screen and visor accessories available.
- Narrow and medium beam angle options available with rotationally symmetric light distribution.

Bavyera / I01.MLT.20160

LED		COB LED
Led Power		32W
System Power		35W
Lumen Output from Fixture CRI>80	2700K	3700
	3000K	3845
	3500K	3960
	4000K	4080
	5000K	4200
Lumen Output from Fixture CRI>90	2700K	3325
	3000K	3465
	3500K	3570
	4000K	3675
	5000K	X
Meat COB	1800K	2165
Food COB	2400K	2230
Mains Switch Dim Option		X
1-10V Dimming Option		X
Dali Dimming Option		✓

Accessories



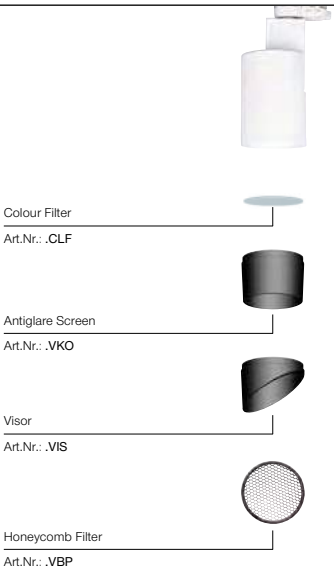
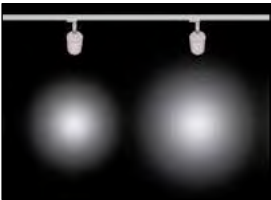


- Die-cast aluminium body.
- Mains voltege: 220-240V / 50-60Hz.
- Clever thermal design.
- With 3-phase universal track adaptor.
- DALI dimming option available upon request with alternative driver box.
- Clear safety glass.
- Basic colours: white, black, silver, dark silver and special color options.
- Honeycomb filter, colour filter, antiglare screen and visor accesories available.
- Narrow and medium beam angle options available with rotationally symmetric light distribution.

Mini Baviera / I01.MLT.21160

LED		COB LED
Led Power		21W
System Power		23W
Lumen Output from Fixture CRI>80	2700K	2460
	3000K	2530
	3500K	2610
	4000K	2690
	5000K	2770
Lumen Output from Fixture CRI>90	2700K	2220
	3000K	2290
	3500K	2355
	4000K	2425
	5000K	X
Meat COB	1800K	X
Food COB	2400K	X
Mains Switch Dim Option		X
1-10V Dimming Option		X
Dali Dimming Option		X

Accessories



SILINDIR Tracklight





SILINDIR spot is a magnificent design for tracklight applications. Driver and lamp house integrated into single cylindrical housing. Thanks to its extruded aluminium profile structure, length of arm can be adjusted optionally as per customer request. Classical segmented Miro Silver reflector with LOR 93% light efficiency used with SILINDIR spotlights. Different accessories can be integrated to front ring enables architects to use this spotlight range in various different applications.



LED A A+ A++

CE RoHS F ENEC IP20

90° 350°

20° 30°

WHITE BLACK GRAY DARK GRAY

kg 1.3 CRI 80 CRI 90

316mm 274mm 235mm Ø85mm

305mm 263mm 235mm Ø85mm

202mm 160mm Ø85mm

- Die-cast aluminium body.
- Mains voltage: 220-240V / 50-60Hz.
- Clever thermal design.
- With 3-phase universal track adaptor.
- 1-10V, DALI and switch dimming options available upon request.
- Clear safety glass.
- Basic colours: white, black, silver, dark silver and special color options.
- Honeycomb filter, colour filter, antiglare screen and visor accesories available.
- Narrow and medium beam angle options available with rotationally symmetric light distribution.

Silindir Maxi / I01.MLT.18190

LED		COB LED
Led Power		29W
System Power		32W
Lumen Output from Fixture CRI>80	2700K	3450
	3000K	3550
	3500K	3660
	4000K	3770
	5000K	3885
Lumen Output from Fixture CRI>90	2700K	3100
	3000K	3200
	3500K	3295
	4000K	3390
	5000K	X
Meat COB	1800K	2000
Food COB	2400K	2060
Mains Switch Dim Option		✓
1-10V Dimming Option		✓
Dali Dimming Option		✓

Accessories

Colour Filter

Art.Nr.: .CLF

Antiglare Screen

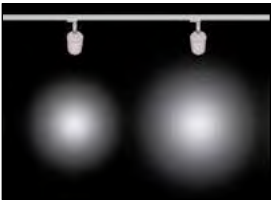
Art.Nr.: .VKO

Visor

Art.Nr.: .VIS

Honeycomb Filter

Art.Nr.: .VBP





LED

A A+ A++

CE

RoHS

F

IP20

IP20

IP20

90°

350°

24°

36°

WHITE

BLACK

GRAY

DARK GRAY

kg

1

CRI 80

CRI 90

200mm

200mm

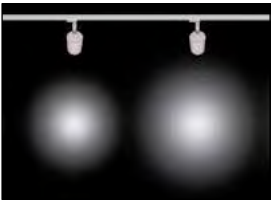
Ø71mm

- Die-cast aluminium body.
- Mains voltege: 220-240V / 50-60Hz.
- Clever thermal design.
- With 3-phase universal track adaptor.
- 1-10V, DALI and switch dimming options available upon request.
- Clear safety glass.
- Basic colours: white, black, silver, dark silver and special color options.
- Honeycomb filter, colour filter, antiglare screen and visor accesories available.
- Narrow and medium beam angle options available with rotationally symmetric light distribution.

Silindir Mini / I01.MLT.18195

LED		COB LED
Led Power		21W
System Power		23W
Lumen Output from Fixture CRI>80	2700K	2460
	3000K	2530
	3500K	2610
	4000K	2690
	5000K	2770
Lumen Output from Fixture CRI>90	2700K	2220
	3000K	2290
	3500K	2355
	4000K	2425
	5000K	X
Meat COB	1800K	X
Food COB	2400K	X
Mains Switch Dim Option		✓
1-10V Dimming Option		✓
Dali Dimming Option		✓

Accessories



Colour Filter

Art.Nr.: .CLF

Antiglare Screen

Art.Nr.: .VKO

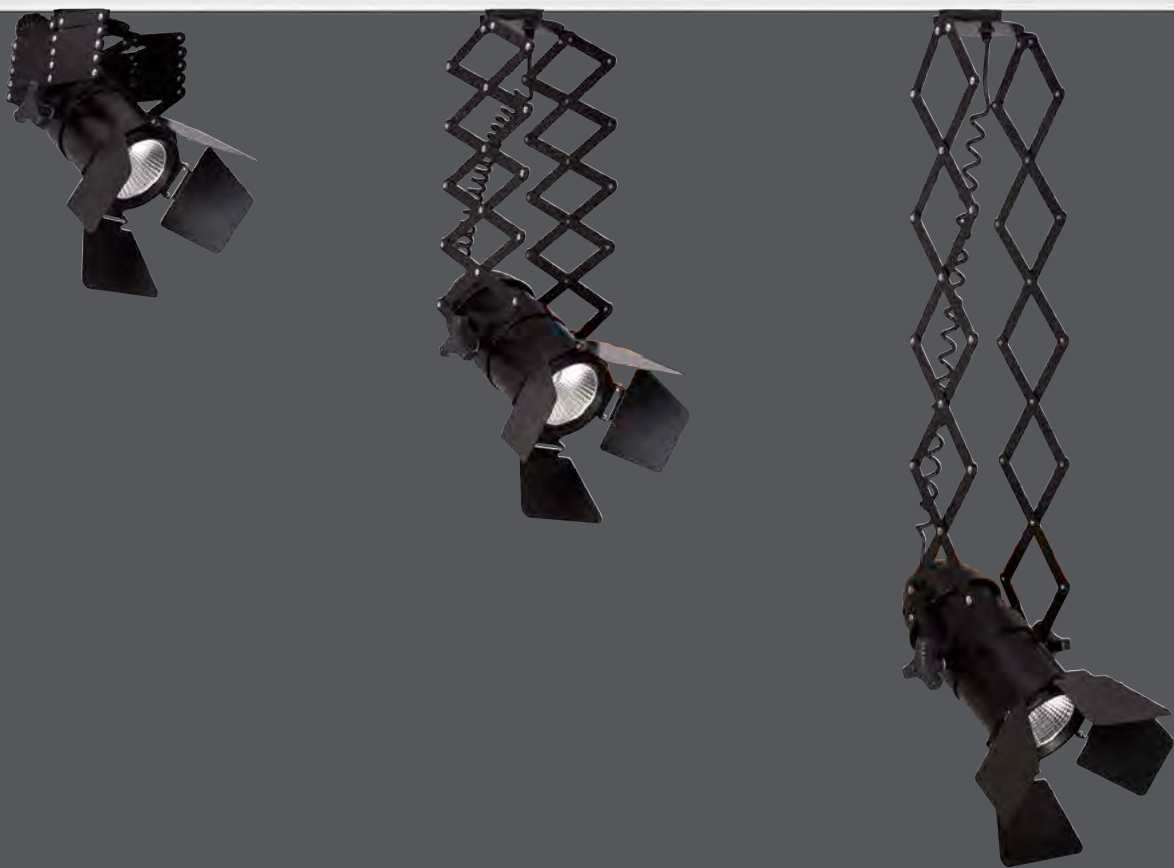
Visor

Art.Nr.: .VIS

Honeycomb Filter

Art.Nr.: .VBP

CANON Tracklight



CANON enables integration of driver and LED in one housing. Clever arm mechanism maximizes the flexibility of adjustment of the lightsource. High efficient miro silver reflector technology integrated with highest lumen/watt COBs enables this range operate over 100lm/w.

Different beam angle and color temperature options together with accesories choices creates flexibility to adapt wide choice of applications.



LED A A+ A++

CE RoHS F ENEC IP20

180° 350° Z=60cm

12° 20° 30° 40° 60°

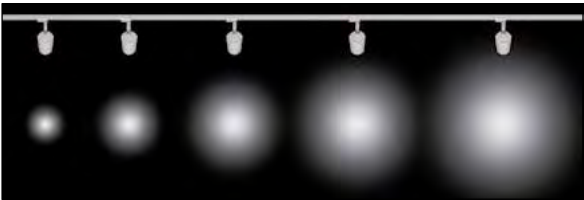
WHITE BLACK GRAY DARK GRAY

kg 2.5 CRI 80 CRI 90

- Die-cast aluminium body.
- Mains voltege: 220-240V / 50-60Hz.
- Clever thermal design.
- With 3-phase universal track adaptor.
- 1-10V, DALI and switch dimming options available upon request.
- Clear safety glass.
- Basic colours: white, black, silver and special color options.
- Honeycomb filter, colour filter, antiglare screen and visor accesories available.
- Narrow, medium and wide beam angle options available with rotationally symmetric light distribution.
- Extra flexible adjustment. Apart from X and Y axis, also 60cm movement in Z axis is possible.

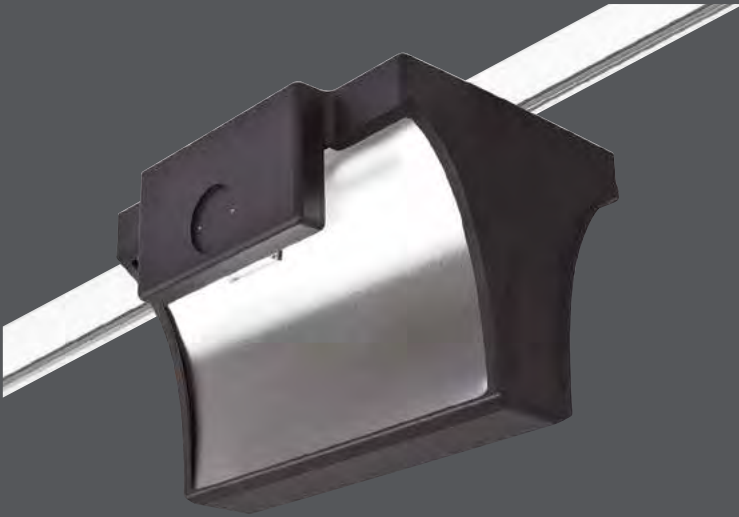
Canon / I01.MLT.03019

LED		COB LED
Led Power		29W
System Power		31W
Lumen Output from Fixture CRI>80	2700K	3680
	3000K	3800
	3500K	3915
	4000K	4030
	5000K	4150
Lumen Output from Fixture CRI>90	2700K	3385
	3000K	3490
	3500K	3595
	4000K	3700
	5000K	X
Meat COB	1800K	2185
Food COB	2400K	2250
Mains Switch Dim Option		✓
1-10V Dimming Option		X
Dali Dimming Option		X



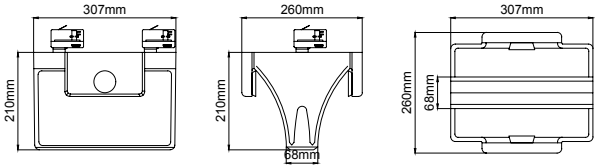
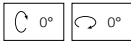
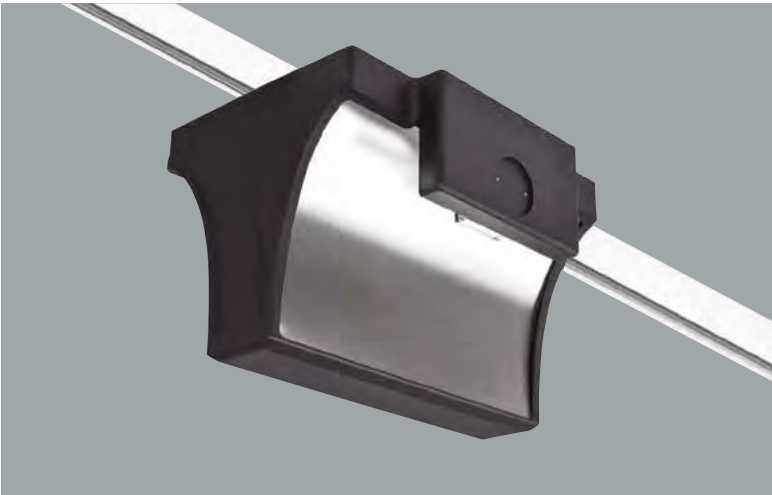
YARASA Tracklight





YARASA created a new era on aisle area lighting. High efficient innovative micro reflector optic design maximizes the spacing of luminaires up to 3.00mt with very bright and even illumination along the shelves. This luminaire can be incorporated with food and non-food luminaires as well.

Compared with traditional continuous strip lighting, YARASA will create a much more comfortable shopping environment by reducing the luminaire density on ceiling that will create a great energy saving at the same time. A perfect option for shelf-lighting.

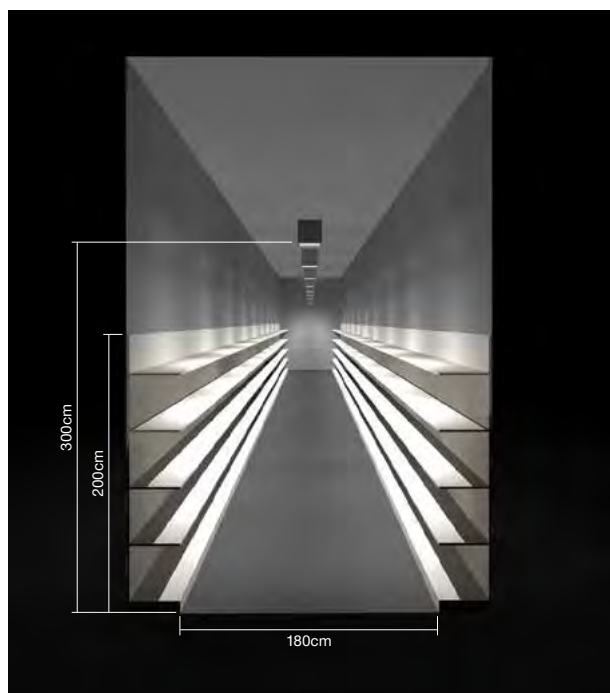


- Aluminium die-cast body.
- Mains voltege: 220-240V / 50-60Hz.
- Clever thermal design.
- With 3-phase universal track adaptor.
- 1-10V, DALI and switch dimming options available upon request.
- Basic colours: white, black, silver and special color options available upon request.
- Custom design batwing optical structure.

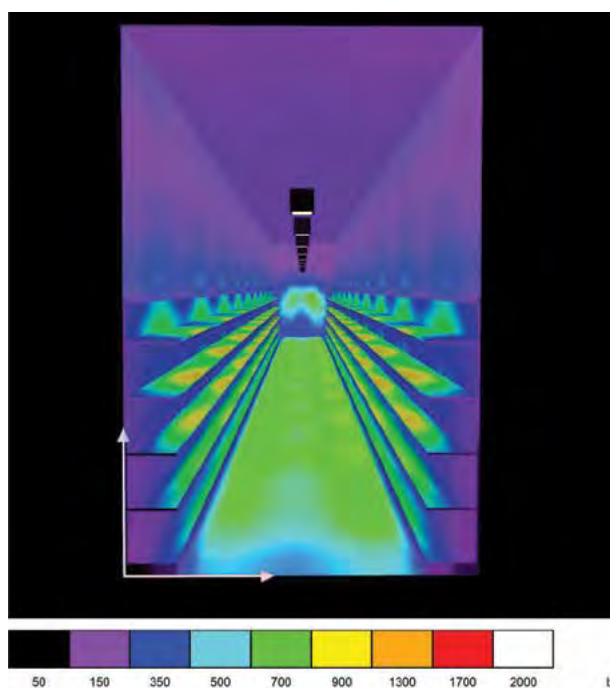
Yarasa / I01.MLT.40430

LED		COB LED
Led Power		90W
System Power		94W
Lumen Output from Fixture CRI>80	2700K	10700
	3000K	11040
	3500K	11375
	4000K	11715
	5000K	12060
Lumen Output from Fixture CRI>90	2700K	9740
	3000K	10030
	3500K	10330
	4000K	10640
Meat COB		X
Food COB		X
Mains Switch Dim Option		✓
1-10V Dimming Option		✓
Dali Dimming Option		✓

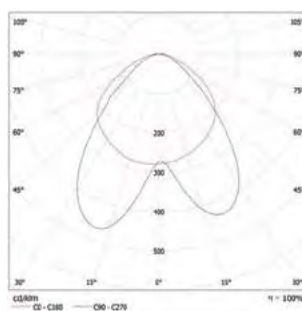




Custom design batwing reflector creates a wonderful even light distribution on both sides. Up to 3.00mt spacing between luminaires is possible that enables a very high amount of energy saving. Average lux level will be 600lux on both sides with an advised mounting height of 3.00-3.30mt and shelf spacing of 1.80-2.00mt.



I01.MLT.40430

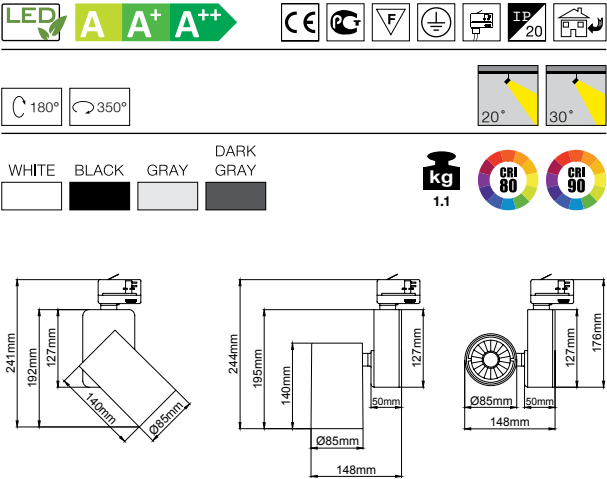


GRAZE Tracklight



Integrated tube and gearbox with minimal size creates nice appearance. Highest lumen per watt LED options preferred to increase the functionality. Clever heatsink design enables maximum lifetime with minimal outer dimensions. High efficient micro silver reflector technology enables efficiency of the spotlight over 100lm/w.

Different beam angle and color temperature options together with accessories choices creates flexibility to adapt wide choice of applications.

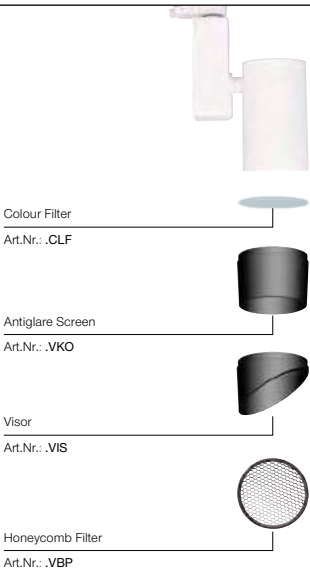
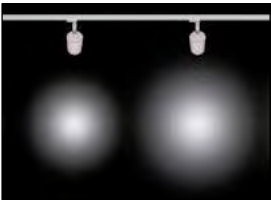


- Die-cast aluminium body.
- Mains voltage: 220-240V / 50-60Hz.
- Clever thermal design.
- With 3-phase universal track adaptor.
- DALI, 1-10V and switch dimming options available upon request.
- Clear safety glass.
- Basic colours: white, black, silver, dark silver and special color options.
- Honeycomb filter, colour filter, antiglare screen and visor accessories available.
- Narrow and medium beam angle options available with rotationally symmetric light distribution.

Graze / I01.MLT.26180

LED		COB LED
Led Power		32W
System Power		35W
Lumen Output from Fixture CRI>80	2700K	3915
	3000K	4035
	3500K	4150
	4000K	4280
	5000K	4400
Lumen Output from Fixture CRI>90	2700K	3520
	3000K	3630
	3500K	3740
	4000K	3850
	5000K	X
Meat COB	1800K	2270
Food COB	2400K	2340
Mains Switch Dim Option		✓
1-10V Dimming Option		✓
Dali Dimming Option		✓

Accessories



PICO Tracklight



PICO is a very small architectural spotlight that incorporates 12V DC/DC converter built in spotlight housing together with high power LED and reflector optic. This spotlight is convenient to be used in low voltage single phase track. Innovative minimal design widely preferred in many different applications. Antiglare front cap, honeycomb filter and colour filter accessories can be incorporated.

Alternatively Xicato wireless dim control system can be incorporated enables controlling the light of the PICO through your iPhone or android.



LED

A A+ A++

CE

RoHS

F

IEC

IP 20

UL

C 90°

350°

15°

30°

45°

WHITE

BLACK

GRAY

DARK GRAY

kg

0.2

CRI 80

CRI 90

115mm

Ø46mm

130mm

59mm

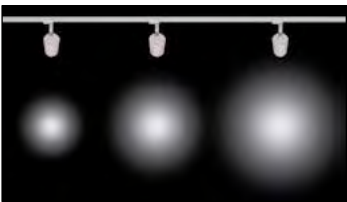
Ø46mm

115mm

59mm

Ø46mm

- Die-cast aluminium body.
- 12V low voltage system.
- Clever thermal design.
- With single phase track adaptor.
- Switch dimming option available upon request.
- Clear PC glass.
- Basic colours: white, black, silver and special color options.
- Honeycomb filter, colour filter and antiglare screen accesories available.
- Narrow, medium and wide beam angle options available with rotationally symmetric light distribution.



Pico / I01.MLT.15160

LED		COB LED
Led Power		5W
System Power		6W
Lumen Output from Fixture CRI>80	2700K	405
	3000K	420
	3500K	430
	4000K	445
	5000K	460
Lumen Output from Fixture CRI>90	2700K	365
	3000K	375
	3500K	387
	4000K	400
	5000K	X
Meat COB	1800K	X
Food COB	2400K	X
Mains Switch Dim Option		✓
1-10V Dimming Option		X
Dali Dimming Option		X
Wireless Dim		✓

Accessories

Colour Filter

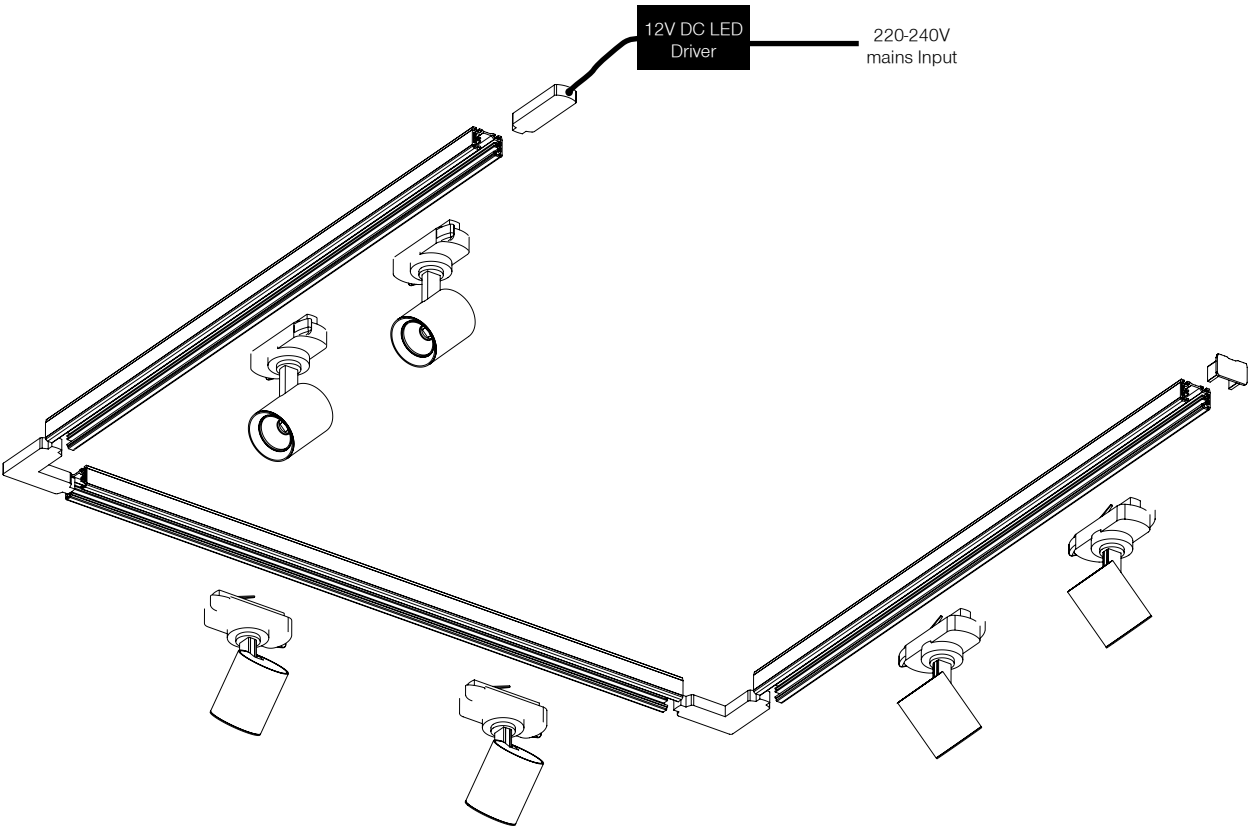
Art.Nr.: CLF

Antiglare Screen

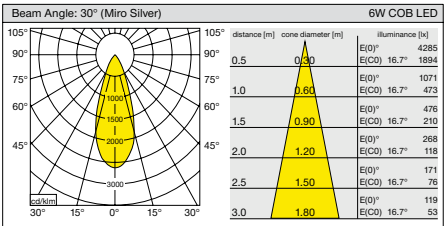
Art.Nr.: VKO

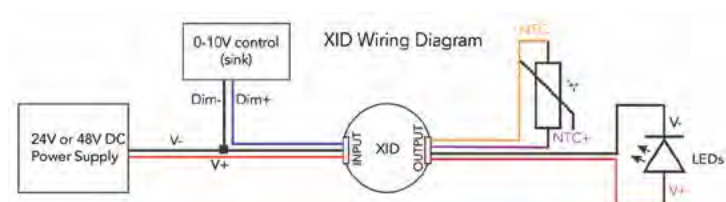
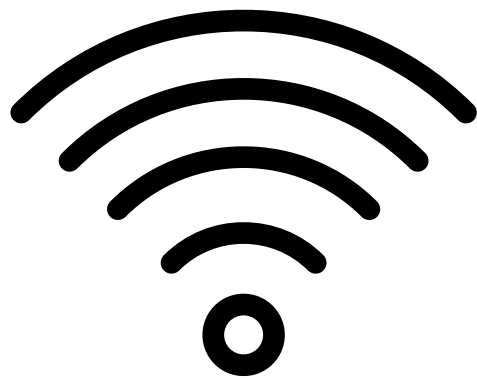
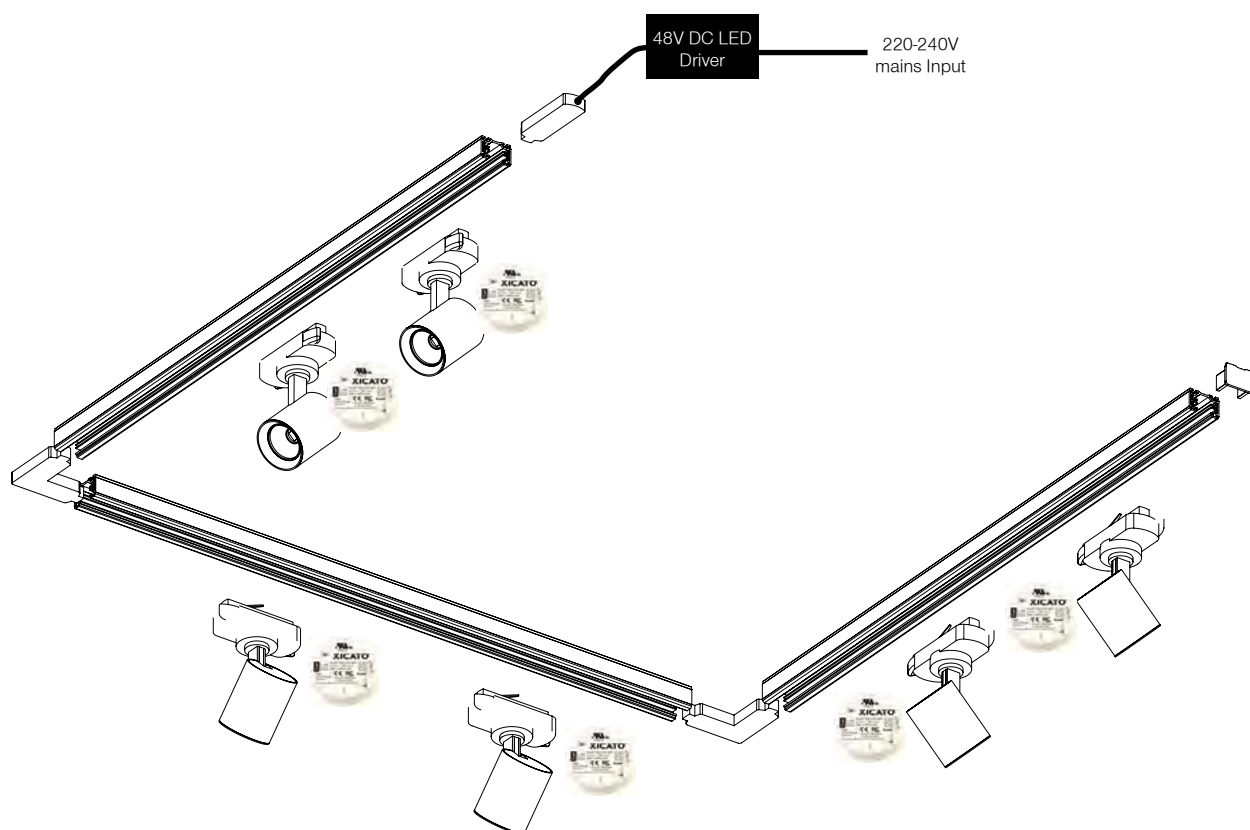
Honeycomb Filter

Art.Nr.: VBP



Minimal design low voltage tracklight. Can be installed to track up to the quantity that meets until the total power of central driver connected to single phase track system.





Feature	Specification
Processor	ARM Cortex M0, 32-bit, 48 MHz
Wireless Protocol	Bluetooth Low Energy v4.1
Wireless Spectrum	2.4 GHz ISM band
Bandwidth	1 Mbps
Channels	40
Transmit Power	Configurable to +1.5dBm or +7.5 dBm
Receive Sensitivity	-93 dBm
RSSI Resolution	1 dBm
Signal to Noise Ratio (SNR)	> 5:1

By simply downloading the XIMtroller application, you can control the Xicato XID module integrated PICO's by bluetooth wireless signal.





➤ **Multichip LED Recessed**





LED

A A+ A++

DALI

CE

PG

F

IP20

20

30°

30°

12°

20°

30°

40°

60°

WHITE

BLACK

GRAY

DARK GRAY

kg

1.3

CRI 80

CRI 90

Ø182mm

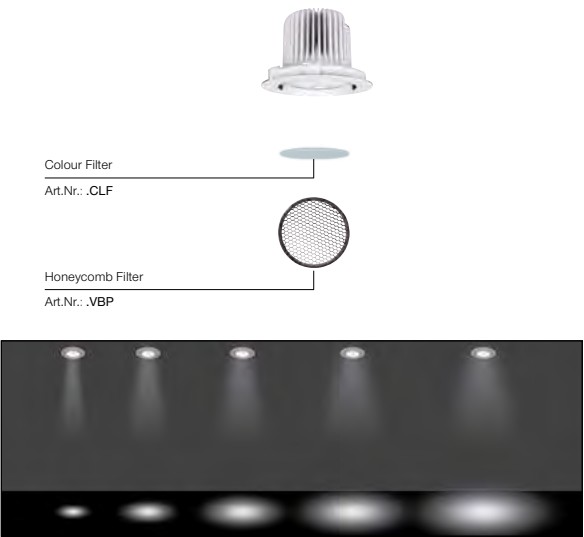
125mm

Ø115mm

Ø170mm

- Die-cast aluminium body.
- Mains voltege: 220-240V / 50-60Hz.
- Clever thermal design.
- 1-10V, DALI and switch dimming options available upon request.
- Clear safety glass.
- Basic colours: white, black, silver, dark silver and special color options.
- Honeycomb filter and colour filter accesories available.
- Narrow, medium and wide beam angle options available with rotationally symmetric light distribution.
- Emergency kit system can be integrated.

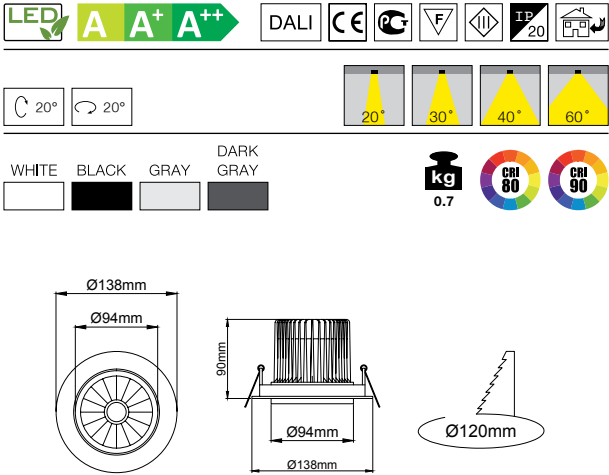
Accessories



Delta / I01.MLR.16014

LED		COB LED
Led Power		32W
System Power		35W
Lumen Output from Fixture CRI>80	2700K	4100
	3000K	4250
	3500K	4375
	4000K	4500
	5000K	4650
Lumen Output from Fixture CRI>90	2700K	3650
	3000K	3800
	3500K	3915
	4000K	4030
Meat COB	1800K	2385
	2400K	2460
Mains Switch Dim Option		✓
1-10V Dimming Option		✓
Dali Dimming Option		✓
Tunable White		✓



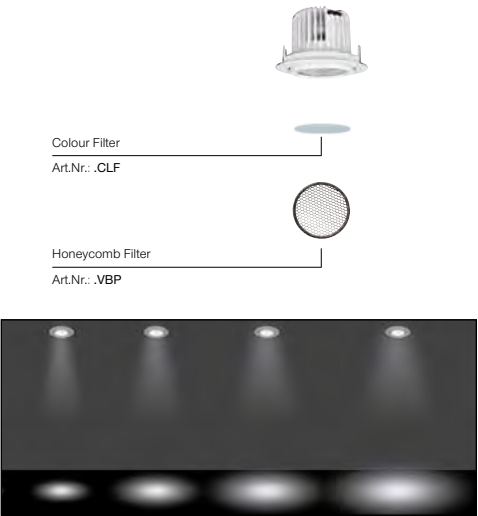


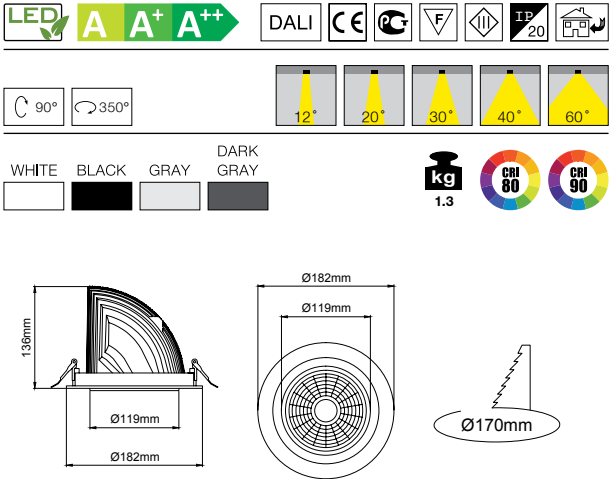
- Die-cast aluminium body.
- Mains voltage: 220-240V / 50-60Hz.
- Clever thermal design.
- 1-10V, DALI and switch dimming options available upon request.
- Clear safety glass.
- Basic colours: white, black, silver, dark silver and special color options.
- Honeycomb filter and colour filter accesories available.
- Narrow, medium and wide beam angle options available with rotationally symmetric light distribution.
- Emergency kit system can be integrated.

Mini Torres / I01.MLR.17010

LED		COB LED
Led Power		26W
System Power		28W
Lumen Output from Fixture CRI>80	2700K	3150
	3000K	3250
	3500K	3350
	4000K	3450
	5000K	3550
Lumen Output from Fixture CRI>90	2700K	2860
	3000K	2950
	3500K	3040
	4000K	3135
Meat COB	1800K	1725
Food COB	2400K	1775
Mains Switch Dim Option		✓
1-10V Dimming Option		✓
Dali Dimming Option		✓
Tunable White		✓

Accessories / Aksesuarlar



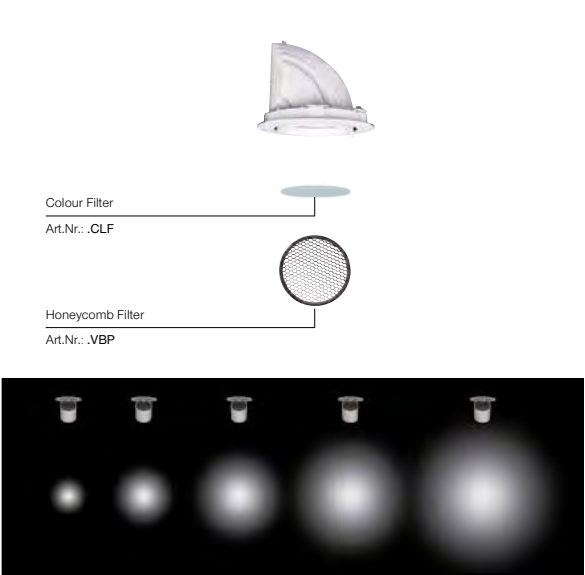


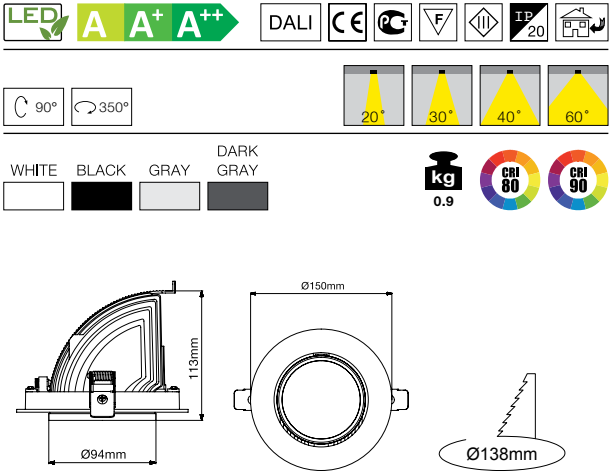
- Die-cast aluminium body.
- Mains voltage: 220-240V / 50-60Hz.
- Clever thermal design.
- 1-10V, DALI and switch dimming options available upon request.
- Clear safety glass.
- Basic colours: white, black, silver, dark silver and special color options.
- Honeycomb filter and colour filter accesories available.
- Narrow, medium and wide beam angle options available with rotationally symmetric light distribution.
- Emergency kit system can be integrated.

Zebra / I01.MLR.30238

LED		COB LED
Led Power		32W
System Power		35W
Lumen Output from Fixture CRI>80	2700K	4100
	3000K	4250
	3500K	4375
	4000K	4500
	5000K	4650
Lumen Output from Fixture CRI>90	2700K	3650
	3000K	3800
	3500K	3915
	4000K	4030
Meat COB	1800K	2385
	2400K	2460
Mains Switch Dim Option		✓
1-10V Dimming Option		✓
Dali Dimming Option		✓

Accessories



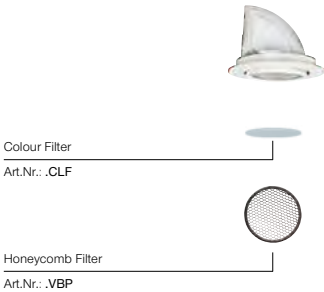
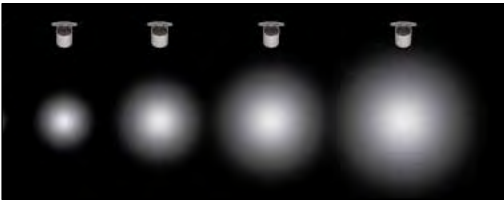


- Die-cast aluminium body.
- Mains voltage: 220-240V / 50-60Hz.
- Clever thermal design.
- 1-10V, DALI and switch dimming options available upon request.
- Clear safety glass.
- Basic colours: white, black, silver, dark silver and special color options.
- Honeycomb filter and colour filter accessories available.
- Narrow, medium and wide beam angle options available with rotationally symmetric light distribution.
- Emergency kit system can be integrated.

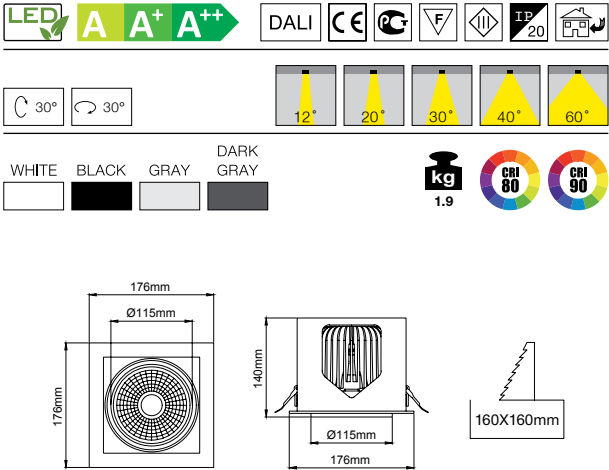
Mini Zebra / 101.MLR.20238

LED		COB LED
Led Power		26W
System Power		28W
Lumen Output from Fixture CRI>80	2700K	3150
	3000K	3250
	3500K	3350
	4000K	3450
	5000K	3550
Lumen Output from Fixture CRI>90	2700K	2860
	3000K	2950
	3500K	3040
	4000K	3135
	5000K	X
Meat COB	1800K	1725
Food COB	2400K	1775
Mains Switch Dim Option		✓
1-10V Dimming Option		✓
Dali Dimming Option		✓

Accessories



Multichip Led Recessed



- Die-cast aluminium body.
- Mains voltage: 220-240V / 50-60Hz.
- Clever thermal design.
- 1-10V, DALI and switch dimming options available upon request.
- Clear safety glass.
- Basic colours: white, black, silver, dark silver and special color options.
- Honeycomb filter and colour filter accessories available.
- Narrow, medium and wide beam angle options available with rotationally symmetric light distribution.
- Emergency kit system can be integrated.

Manna / I01.MLR.09001

LED		COB LED
Led Power		32W
System Power		35W
Lumen Output from Fixture CRI>80	2700K	4100
	3000K	4250
	3500K	4375
	4000K	4500
	5000K	4650
Lumen Output from Fixture CRI>90	2700K	3650
	3000K	3800
	3500K	3915
	4000K	4030
	5000K	X
Meat COB	1800K	2385
Food COB	2400K	2460
Mains Switch Dim Option		✓
1-10V Dimming Option		✓
Dali Dimming Option		✓

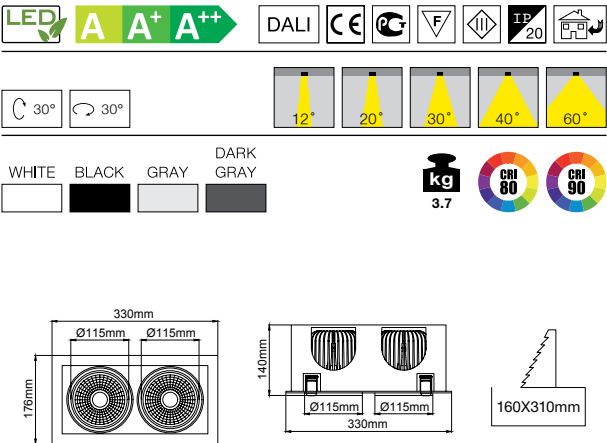
Accessories



Colour Filter
Art.Nr.: CLF

Honeycomb Filter
Art.Nr.: VBP





- Die-cast aluminium body.
- Mains voltage: 220-240V / 50-60Hz.
- Clever thermal design.
- 1-10V, DALI and switch dimming options available upon request.
- Clear safety glass.
- Basic colours: white, black, silver, dark silver and special color options.
- Honeycomb filter and colour filter accesories available.
- Narrow, medium and wide beam angle options available with rotationally symmetric light distribution.
- Emergency kit system can be integrated.

Manna / I01.MLR.09002

LED		COB LED
Led Power		2x32W
System Power		2x35W
Lumen Output from Fixture CRI>80	2700K	8200
	3000K	8500
	3500K	8750
	4000K	9000
	5000K	9300
Lumen Output from Fixture CRI>90	2700K	7300
	3000K	7600
	3500K	7830
	4000K	8060
	5000K	X
Meat COB	1800K	4770
Food COB	2400K	4920
Mains Switch Dim Option		✓
1-10V Dimming Option		✓
Dali Dimming Option		✓





LED

A A+ A++

DALI

CE

RoHS

F

IP20

UL

C 30°

↻ 30°

12°

20°

30°

40°

60°

WHITE

BLACK

GRAY

DARK GRAY

kg

5.5

CRI 80

CRI 90

470mm

Ø115mm

Ø115mm

Ø115mm

176mm

140mm

Ø115mm

Ø115mm

Ø115mm

470mm

160X450mm

Multichip Led Recessed

- Die-cast aluminium body.
- Mains voltege: 220-240V / 50-60Hz.
- Clever thermal design.
- 1-10V, DALI and switch dimming options available upon request.
- Clear safety glass.
- Basic colours: white, black, silver, dark silver and special color options.
- Honeycomb filter and colour filter accesories available.
- Narrow, medium and wide beam angle options available with rotationally symmetric light distribution.
- Emergency kit system can be integrated.

Manna / I01.MLR.09003

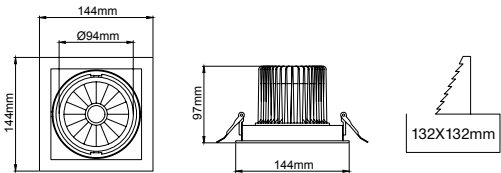
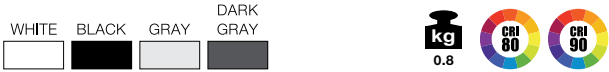
LED		COB LED
Led Power		3x32W
System Power		3x35W
Lumen Output from Fixture CRI>80	2700K	12300
	3000K	12750
	3500K	13125
	4000K	13500
	5000K	13950
Lumen Output from Fixture CRI>90	2700K	10950
	3000K	11400
	3500K	11745
	4000K	12090
	5000K	X
Meat COB	1800K	7155
Food COB	2400K	7380
Mains Switch Dim Option		✓
1-10V Dimming Option		✓
Dali Dimming Option		✓





Similar concept with MANNA but with smaller dimensions.





- Die-cast aluminium body.
- Mains voltege: 220-240V / 50-60Hz.
- Clever thermal design.
- 1-10V, DALI and switch dimming options available upon request.
- Clear safety glass.
- Basic colours: white, black, silver, dark silver and special color options.
- Honeycomb filter and colour filter accesories available.
- Narrow, medium and wide beam angle options available with rotationally symmetric light distribution.
- Emergency kit system can be integrated.

Manna Mini / I01.MLR.08001

LED		COB LED
Led Power		26W
System Power		28W
Lumen Output from Fixture CRI>80	2700K	3150
	3000K	3250
	3500K	3350
	4000K	3450
	5000K	3550
Lumen Output from Fixture CRI>90	2700K	2860
	3000K	2950
	3500K	3040
	4000K	3135
	5000K	X
Meat COB	1800K	1725
Food COB	2400K	1775
Mains Switch Dim Option		✓
1-10V Dimming Option		✓
Dali Dimming Option		✓

Accessories

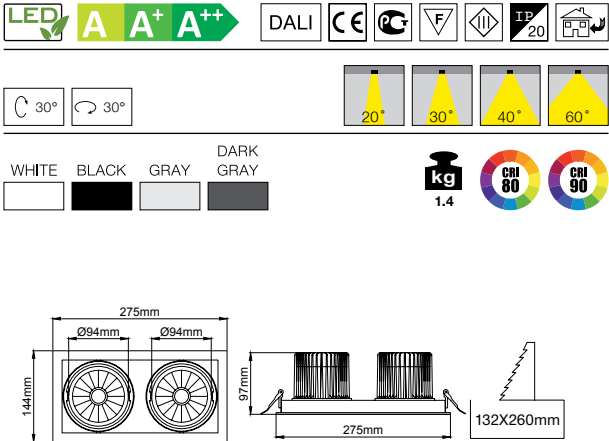


Colour Filter
Art.Nr.: CLF



Honeycomb Filter
Art.Nr.: VBP





- Die-cast aluminium body.
- Mains voltage: 220-240V / 50-60Hz.
- Clever thermal design.
- 1-10V, DALI and switch dimming options available upon request.
- Clear safety glass.
- Basic colours: white, black, silver, dark silver and special color options.
- Honeycomb filter and colour filter accessories available.
- Narrow, medium and wide beam angle options available with rotationally symmetric light distribution.
- Emergency kit system can be integrated.

Manna Mini / I01.MLR.08002

LED		COB LED
Led Power		2x26W
System Power		2x28W
Lumen Output from Fixture CRI>80	2700K	6300
	3000K	6500
	3500K	6700
	4000K	6900
	5000K	7100
Lumen Output from Fixture CRI>90	2700K	5720
	3000K	5900
	3500K	6080
	4000K	6270
Meat COB	1800K	3450
Food COB	2400K	3550
Mains Switch Dim Option		✓
1-10V Dimming Option		✓
Dali Dimming Option		✓





LED

A A+ A++

DALI

CE

RoHS

F

IP20

UL

C 30°

C 30°

20°

30°

40°

60°

WHITE

BLACK

GRAY

DARK GRAY

kg

2

CRI 80

CRI 90

405mm

145mm

Ø94mm

Ø94mm

Ø94mm

96mm

405mm

160X455mm

- Die-cast aluminium body.
- Mains voltege: 220-240V / 50-60Hz.
- Clever thermal design.
- 1-10V, DALI and switch dimming options available upon request.
- Clear safety glass.
- Basic colours: white, black, silver, dark silver and special color options.
- Honeycomb filter and colour filter accesories available.
- Narrow, medium and wide beam angle options available with rotationally symmetric light distribution.
- Emergency kit system can be integrated.

Manna Mini / I01.MLR.08003

LED		COB LED
Led Power		3x26W
System Power		3x28W
Lumen Output from Fixture CRI>80	2700K	9450
	3000K	9750
	3500K	1050
	4000K	10350
	5000K	10650
Lumen Output from Fixture CRI>90	2700K	8580
	3000K	8850
	3500K	9120
	4000K	9405
	5000K	X
Meat COB	1800K	5175
Food COB	2400K	5325
Mains Switch Dim Option		✓
1-10V Dimming Option		✓
Dali Dimming Option		✓





LED

A A+ A++

DALI

CE

PG

F

IP44

12°

20°

30°

40°

60°

WHITE

BLACK

GRAY

DARK GRAY

kg

1.4

CRI 80

CRI 90

168mm

102mm

66mm

Ø170mm

Ø170mm

Ø115mm

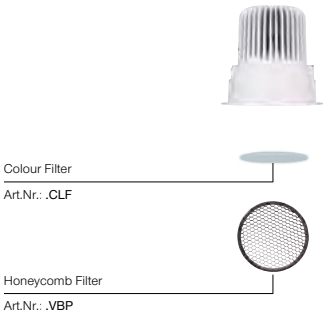
Ø155mm

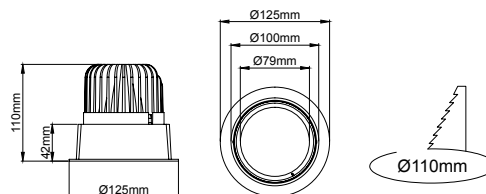
- Die-cast aluminium body.
- Mains voltage: 220-240V / 50-60Hz.
- Clever thermal design.
- 1-10V, DALI, switch dim and warm dimming options available upon request.
- Clear safety glass.
- Basic colours: white, black, silver, dark silver and special color options.
- Honeycomb filter and colour filter accesories available.
- Narrow, medium and wide beam angle options available with rotationally symmetric light distribution.
- Emergency kit system can be integrated.

Trimo / I01.MLR.18025

LED		COB LED
Led Power		32W
System Power		35W
Lumen Output from Fixture CRI>80	2700K	4100
	3000K	4250
	3500K	4375
	4000K	4500
	5000K	4650
Lumen Output from Fixture CRI>90	2700K	3650
	3000K	3800
	3500K	3915
	4000K	4030
Meat COB	1800K	2385
	2400K	2460
Mains Switch Dim Option		✓
1-10V Dimming Option		✓
Dali Dimming Option		✓
Warm Dimming Option		✓

Accessories



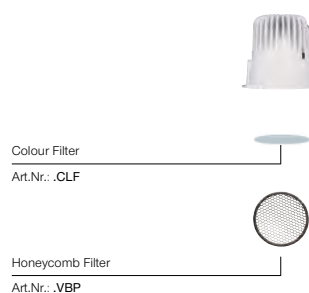


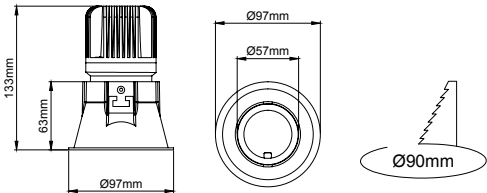
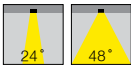
- Die-cast aluminium body.
- Mains voltage: 220-240V / 50-60Hz.
- Clever thermal design.
- 1-10V, DALI, switch dim and warm dimming options available upon request.
- Clear safety glass.
- Basic colours: white, black, silver, dark silver and special color options.
- Honeycomb filter and colour filter accessories available.
- Narrow, medium and wide beam angle options available with rotationally symmetric light distribution.
- Emergency kit system can be integrated.

Trimo / I01.MLR.18020

LED		COB LED
Led Power		26W
System Power		28W
Lumen Output from Fixture CRI>80	2700K	3150
	3000K	3250
	3500K	3350
	4000K	3450
	5000K	3550
Lumen Output from Fixture CRI>90	2700K	2860
	3000K	2950
	3500K	3040
	4000K	3135
	5000K	X
Meat COB	1800K	1725
Food COB	2400K	1775
Mains Switch Dim Option		✓
1-10V Dimming Option		✓
Dali Dimming Option		✓
Warm Dimming Option		✓

Accessories

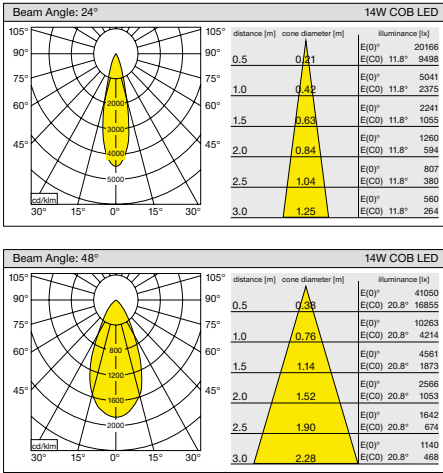




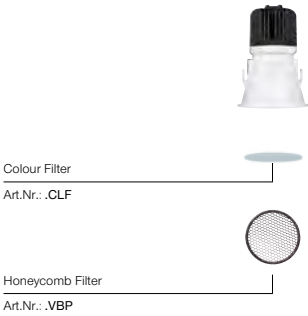
- Die-cast aluminium body.
- Mains voltage: 220-240V / 50-60Hz.
- Clever thermal design.
- 1-10V, DALI, switch dim and warm dimming options available upon request.
- Clear safety glass.
- Basic colours: white, black, silver, dark silver and special color options.
- Honeycomb filter and colour filter accessories available.
- Narrow, medium and wide beam angle options available with rotationally symmetric light distribution.
- Emergency kit system can be integrated.

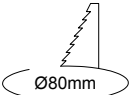
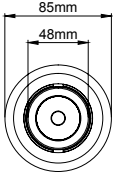
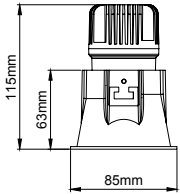
Mini Trimo / I01.MLR.18015

LED		COB LED
Led Power		13W
System Power		14W
Lumen Output from Fixture CRI>80	2700K	1135
	3000K	1170
	3500K	1205
	4000K	1240
	5000K	1280
Lumen Output from Fixture CRI>90	2700K	1032
	3000K	1064
	3500K	1095
	4000K	1129
	5000K	X
Meat COB	1800K	X
Food COB	2400K	X
Mains Switch Dim Option		✓
1-10V Dimming Option		✓
Dali Dimming Option		✓
Warm Dimming Option		✓



Accessories





- Die-cast aluminium body.
- Mains voltage: 220-240V / 50-60Hz.
- Clever thermal design.
- 1-10V, DALI, switch dim and warm dimming options available upon request.
- Clear safety glass.
- Basic colours: white, black, silver, dark silver and special color options.
- Honeycomb filter and colour filter accessories available.
- Narrow, medium and wide beam angle options available with rotationally symmetric light distribution.
- Emergency kit system can be integrated.

Mini Trimo / 101.MLR.18010

LED		COB LED
Led Power		6W
System Power		7W
Lumen Output from Fixture CRI>80	2700K	630
	3000K	650
	3500K	670
	4000K	690
	5000K	710
Lumen Output from Fixture CRI>90	2700K	575
	3000K	590
	3500K	610
	4000K	630
	5000K	X
Meat COB	1800K	X
Food COB	2400K	X
Mains Switch Dim Option		✓
1-10V Dimming Option		✓
Dali Dimming Option		✓
Warm Dimming Option		✓

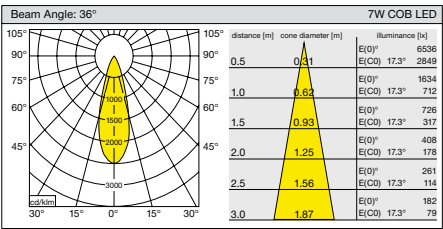
Accessories

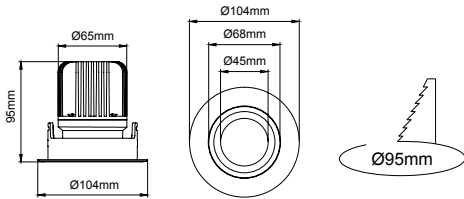
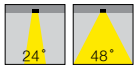
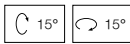


Colour Filter
Art.Nr.: .CLF



Honeycomb Filter
Art.Nr.: .VBP



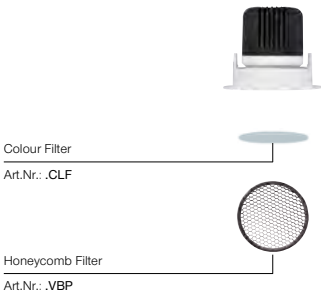
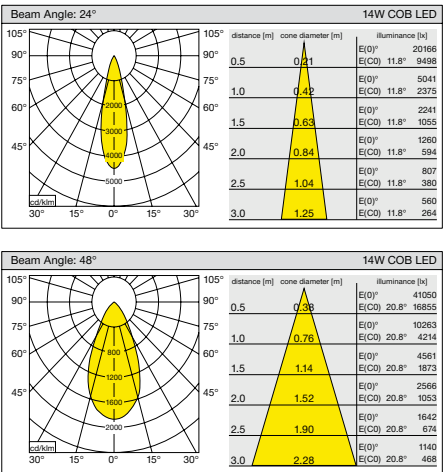


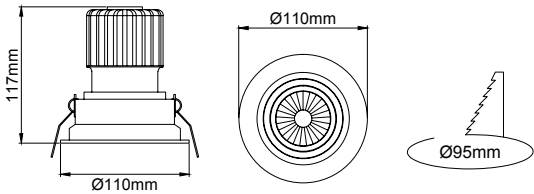
- Die-cast aluminium body.
- Mains voltage: 220-240V / 50-60Hz.
- Clever thermal design.
- 1-10V, DALI, switch dim and warm dimming options available upon request.
- Clear safety glass.
- Basic colours: white, black, silver, dark silver and special color options.
- Honeycomb filter and colour filter accessories available.
- Medium and wide beam angle options available with rotationally symmetric light distribution.
- Emergency kit system can be integrated.

Minilux / I01.MLR.17070

LED		COB LED
Led Power		13W
System Power		14W
Lumen Output from Fixture CRI>80	2700K	1135
	3000K	1170
	3500K	1205
	4000K	1240
	5000K	1280
Lumen Output from Fixture CRI>90	2700K	1032
	3000K	1064
	3500K	1095
	4000K	1129
	5000K	X
Meat COB	1800K	X
Food COB	2400K	X
Mains Switch Dim Option		✓
1-10V Dimming Option		✓
Dali Dimming Option		✓
Warm Dimming Option		✓

Accessories



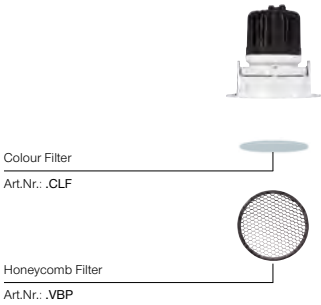
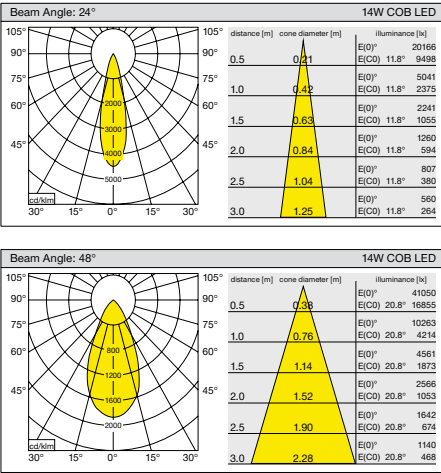


- Die-cast aluminium body.
- Mains voltage: 220-240V / 50-60Hz.
- Clever thermal design.
- 1-10V, DALI, switch dim and warm dimming options available upon request.
- Clear safety glass.
- Basic colours: white, black, silver, dark silver and special color options.
- Honeycomb filter and colour filter accessories available.
- Medium and wide beam angle options available with rotationally symmetric light distribution.
- Emergency kit system can be integrated.

Minilux / I01.MLR.17075

LED		COB LED
Led Power		13W
System Power		14W
Lumen Output from Fixture CRI>80	2700K	1135
	3000K	1170
	3500K	1205
	4000K	1240
	5000K	1280
Lumen Output from Fixture CRI>90	2700K	1032
	3000K	1064
	3500K	1095
	4000K	1129
Meat COB	1800K	X
Food COB	2400K	X
Mains Switch Dim Option		✓
1-10V Dimming Option		✓
Dali Dimming Option		✓
Warm Dimming Option		✓

Accessories



ZERO Recessed





ZERO integrates high and low lumen package lighting with zero frame look that minimizes the appearance of the spotlight in ceiling.

Latest LED technology with highest lumen/watt integrated with high efficient reflector technology makes ZERO range efficient and environment friendly lighting solution.

Honeycomb filter to reduce glare and colour filter to give different lighting effects can be integrated to the luminaire.

Different finishing options of the inner ring increases the architectural application options.



– Inner front ring has different finishing options.



Chrome plate



Matt chrome plate



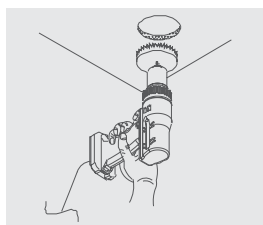
Black painted



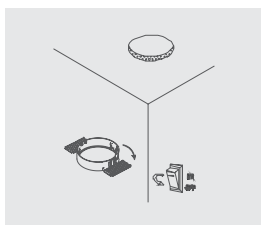
White painted



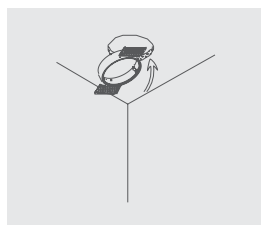
Copper plated



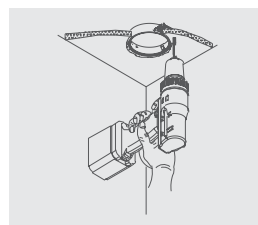
Open the hole on ceiling according to the information given on product datasheet.



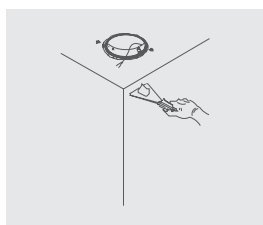
According to the ceiling thickness, adjust the position of the corner plates of the ring.



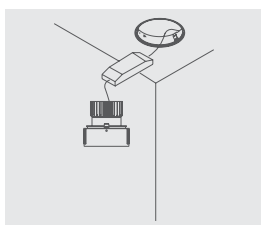
Place the ring into the ceiling.



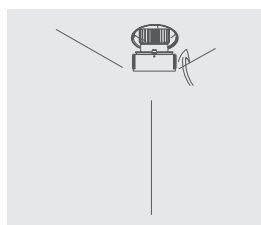
Screw the corner frames and fix it to the ceiling.



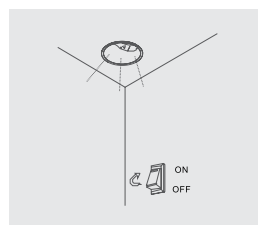
Disappear the screws by plaster and paint.



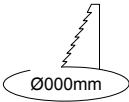
Plug the led driver to mains.



Place the main housing to the outer frame with twist and lock mechanism.



The fixture is ready to use.



- Die-cast aluminium body.
- Mains voltage: 220-240V / 50-60Hz.
- Clever thermal design.
- 1-10V, DALI, switch dim and warm dimming options available upon request.
- Clear safety glass.
- Basic colours: white, black, silver, dark silver and special color options.
- Honeycomb filter and colour filter accessories available.
- Medium beam angle option available with rotationally symmetric light distribution.
- Emergency kit system can be integrated.

Zero Maxi / I01.MLR.14046

LED		COB LED
Led Power		22W
System Power		24W
Lumen Output from Fixture CRI>80	2700K	2340
	3000K	2410
	3500K	2480
	4000K	2555
	5000K	2630
Lumen Output from Fixture CRI>90	2700K	2130
	3000K	2190
	3500K	2260
	4000K	2325
	5000K	X
Meat COB	1800K	X
Food COB	2400K	X
Mains Switch Dim Option		✓
1-10V Dimming Option		✓
Dali Dimming Option		✓
Warm Dimming Option		✓

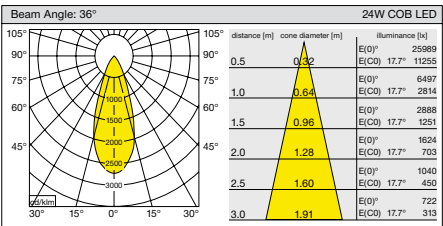
Accessories

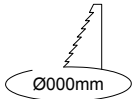


Colour Filter
Art.Nr.: .CLF



Honeycomb Filter
Art.Nr.: .VBP





- Die-cast aluminium body.
- Mains voltage: 220-240V / 50-60Hz.
- Clever thermal design.
- 1-10V, DALI, switch dim and warm dimming options available upon request.
- Clear safety glass.
- Basic colours: white, black, silver, dark silver and special color options.
- Honeycomb filter and colour filter accesories available.
- Medium beam angle option available with rotationally symmetric light distribution.
- Emergency kit system can be integrated.

Zero / I01.MLR.14045

LED		COB LED
Led Power		13W
System Power		14W
Lumen Output from Fixture CRI>80	2700K	1170
	3000K	1205
	3500K	1240
	4000K	1280
	5000K	1315
Lumen Output from Fixture CRI>90	2700K	1065
	3000K	1095
	3500K	1130
	4000K	1160
	5000K	X
Meat COB	1800K	X
Food COB	2400K	X
Mains Switch Dim Option		✓
1-10V Dimming Option		✓
Dali Dimming Option		✓
Warm Dimming Option		✓

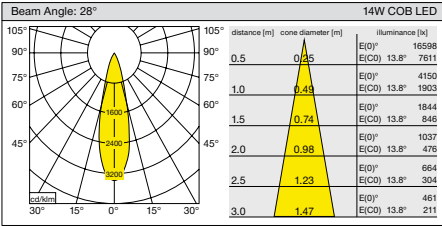
Accessories

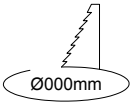
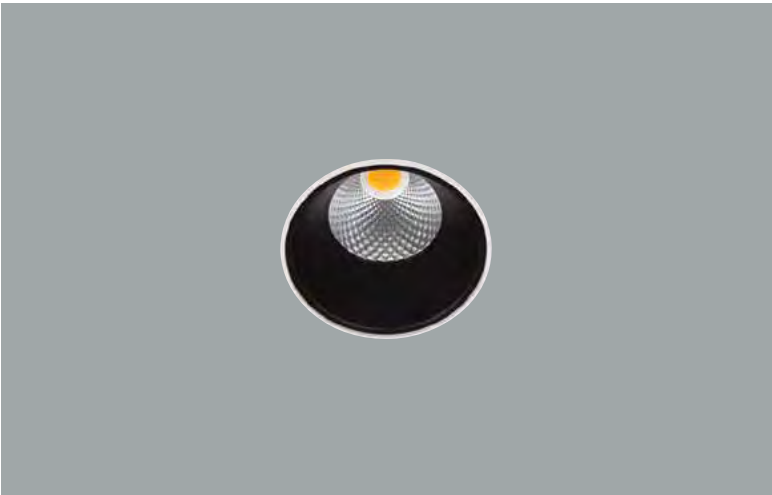


Colour Filter
Art.Nr.: .CLF



Honeycomb Filter
Art.Nr.: .VBP



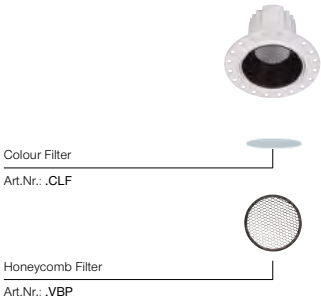
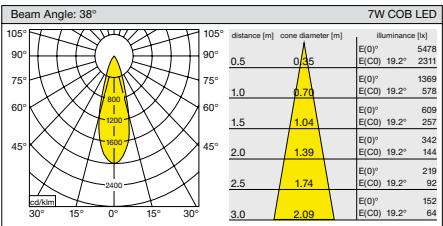


- Die-cast aluminium body.
- Mains voltage: 220-240V / 50-60Hz.
- Clever thermal design.
- 1-10V, DALI, switch dim and warm dimming options available upon request.
- Clear safety glass.
- Basic colours: white, black, silver, dark silver and special color options.
- Honeycomb filter and colour filter accesories available.
- Medium beam angle option available with rotationally symmetric light distribution.
- Emergency kit system can be integrated.

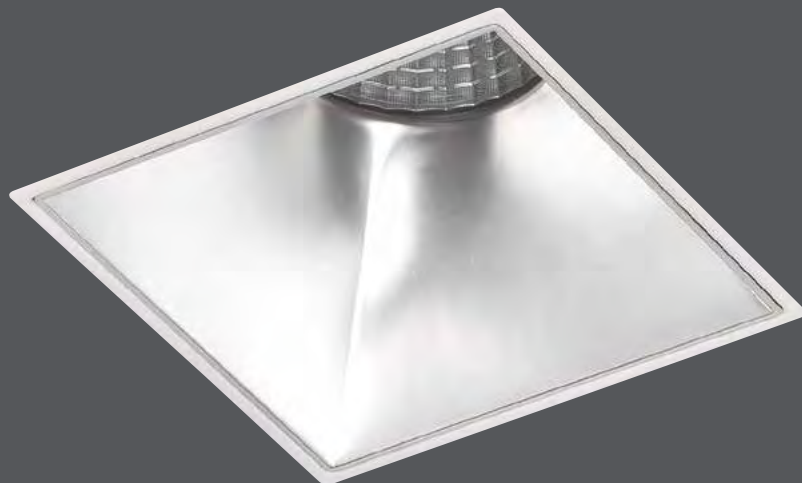
Zero Mini / I01.MLR.14044

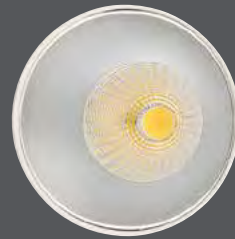
LED		COB LED
Led Power		6W
System Power		7W
Lumen Output from Fixture CRI>80	2700K	650
	3000K	672
	3500K	690
	4000K	713
	5000K	734
Lumen Output from Fixture CRI>90	2700K	590
	3000K	608
	3500K	626
	4000K	645
	5000K	X
Meat COB	1800K	X
Food COB	2400K	X
Mains Switch Dim Option		✓
1-10V Dimming Option		✓
Dali Dimming Option		✓
Warm Dimming Option		✓

Accessories



DEEPTRIM *Recessed*

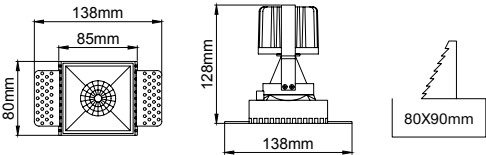
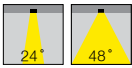
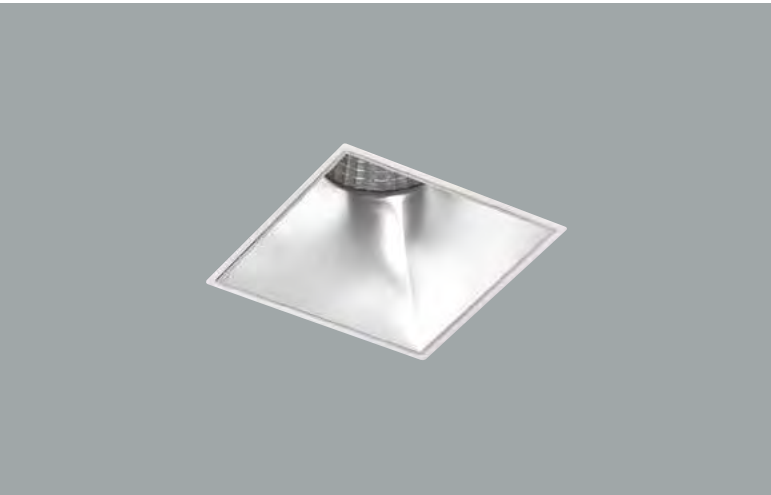




DEEPTRIM integrates symmetric and asymmetric light distribution options with zero frame in both round and square format that minimizes the appearance of the spotlight in ceiling.

Latest LED technology with highest lumen/watt integrated with high efficient reflector technology makes DEEPTRIM range efficient and environment friendly lighting solution.

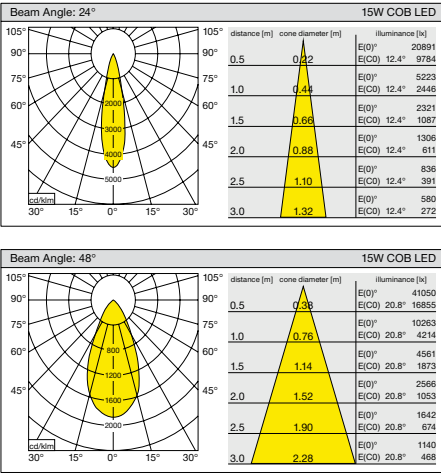
Honeycomb filter to reduce glare and colour filter to give different lighting effects can be integrated to the luminaire.

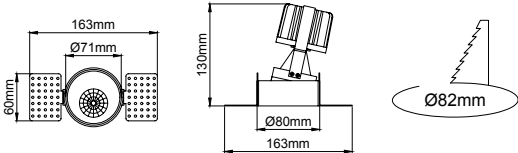


- Die-cast aluminium body.
- Mains voltage: 220-240V / 50-60Hz.
- Clever thermal design.
- 1-10V, DALI, switch dim and warm dimming options available upon request.
- Clear safety glass.
- Basic colours: white, black, silver, dark silver and special color options.
- Honeycomb filter and colour filter accessories available.
- Medium and wide beam angle options available with rotationally symmetric light distribution.
- Emergency kit system can be integrated.

Deeptrim / I01.MLR.24035

LED		COB LED
Led Power		14W
System Power		15W
Lumen Output from Fixture CRI>80	2700K	1158
	3000K	1194
	3500K	1230
	4000K	1267
	5000K	1305
Lumen Output from Fixture CRI>90	2700K	1054
	3000K	1085
	3500K	1118
	4000K	1152
Meat COB	1800K	X
	2400K	X
Mains Switch Dim Option		✓
1-10V Dimming Option		✓
Dali Dimming Option		✓
Warm Dimming Option		✓

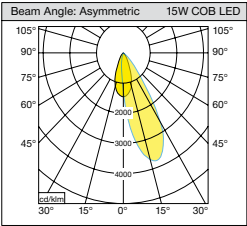




- Die-cast aluminium body.
- Mains voltege: 220-240V / 50-60Hz.
- Clever thermal design.
- 1-10V, DALI, switch dim and warm dimming options available upon request.
- Clear safety glass.
- Basic colours: white, black, silver, dark silver and special color options.
- Honeycomb filter and colour filter accesories available.
- Asymmetric beam angle option available.
- Emergency kit system can be integrated.

Deeptrim / 101.MLR.24030

LED		COB LED
Led Power		14W
System Power		15W
Lumen Output from Fixture CRI>80	2700K	1257
	3000K	1296
	3500K	1335
	4000K	1375
	5000K	1416
Lumen Output from Fixture CRI>90	2700K	1144
	3000K	1178
	3500K	1214
	4000K	1250
	5000K	X
Meat COB	1800K	X
Food COB	2400K	X
Mains Switch Dim Option		✓
1-10V Dimming Option		✓
Dali Dimming Option		✓
Warm Dimming Option		✓



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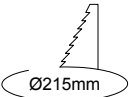
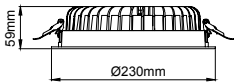
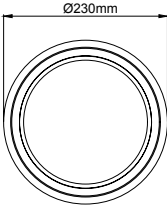
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2014



➤ Power LED Downlight

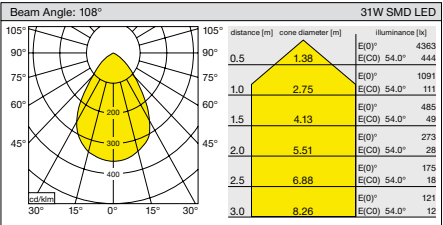




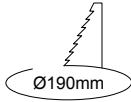
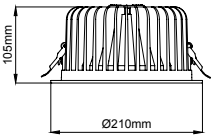
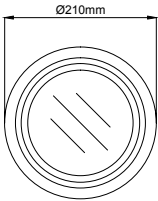
- Die-cast aluminium body.
- Mains voltage: 220-240V / 50-60Hz.
- Clever thermal design.
- 1-10V, DALI and switch dimming options available upon request.
- High efficient opal diffuser.
- Basic colours: white, black, silver, antracite dark gray and special color options available upon request.
- IP44 rating possible with integration of extra silicon gasket upon request.
- Emergency kit system can be integrated.

Neptun Mega / I02.PLR.15076

LED		SMD LED
Led Power		29W
System Power		31W
Lumen Output from Fixture CRI>80	2700K	2885
	3000K	2976
	3500K	3065
	4000K	3155
	5000K	3252
Lumen Output from Fixture CRI>90	2700K	2625
	3000K	2700
	3500K	2785
	4000K	2865
	5000K	X
Mains Switch Dim Option		✓
1-10V Dimming Option		✓
Dali Dimming Option		✓



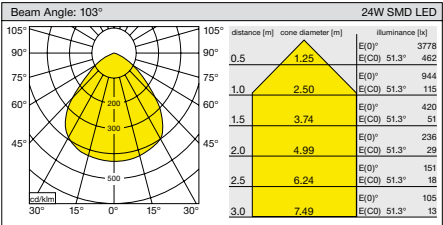
Low inner depth of the luminaire creates advantage to apply this range to ceilings with low depth.

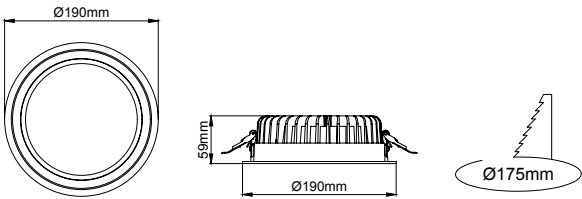


- Die-cast aluminium body.
- Mains voltege: 220-240V / 50-60Hz.
- Clever thermal design.
- 1-10V, DALI and switch dimming options available upon request.
- High efficient opal diffuser.
- Basic colours: white, black, silver, antracite dark gray and special color options available upon request.
- IP44 rating possible with integration of extra silicon gasket upon request.
- Emergency kit system can be integrated.

Neptun Maxi / I02.PLR.15077

LED		SMD LED
Led Power		22W
System Power		24W
Lumen Output from Fixture CRI>80	2700K	2095
	3000K	2158
	3500K	2223
	4000K	2289
	5000K	2358
Lumen Output from Fixture CRI>90	2700K	1900
	3000K	1960
	3500K	2022
	4000K	2080
	5000K	X
Mains Switch Dim Option		✓
1-10V Dimming Option		✓
Dali Dimming Option		✓

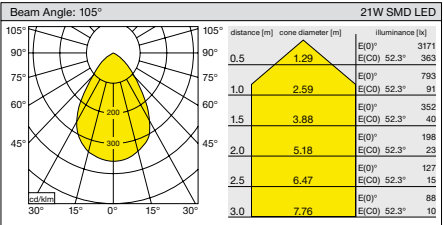




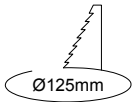
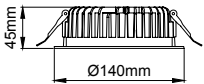
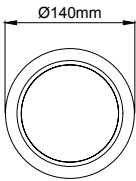
- Die-cast aluminium body.
- Only to be used with electronic Led driver.
- Mains voltage: 220-240V / 50-60Hz.
- Clever thermal design.
- 1-10V, DALI and switch dimming options available upon request.
- High efficient opal diffuser.
- Basic colours: white, black, silver and special color options available upon request.
- IP44 rating possible with integration of extra silicon gasket upon request.
- Emergency kit system can be integrated.

Neptun / I02.PLR.15078

LED		SMD LED
Led Power		19W
System Power		21W
Lumen Output from Fixture CRI>80	2700K	1861
	3000K	1919
	3500K	1977
	4000K	2035
	5000K	2097
Lumen Output from Fixture CRI>90	2700K	1690
	3000K	1740
	3500K	1790
	4000K	1845
5000K		X
Mains Switch Dim Option		✓
1-10V Dimming Option		✓
Dali Dimming Option		✓



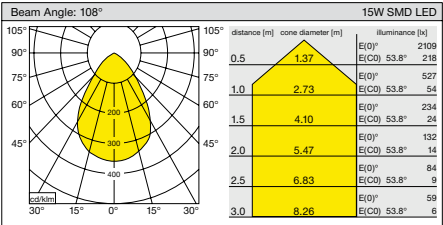
Low inner depth of the luminaire creates advantage to apply this range to ceilings with low depth.



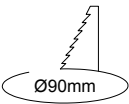
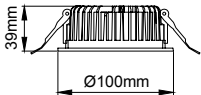
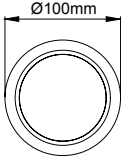
- Die-cast aluminium body.
- Only to be used with electronic Led driver.
- Mains voltage: 220-240V / 50-60Hz.
- Clever thermal design.
- 1-10V, DALI and switch dimming options available upon request.
- High efficient opal diffuser.
- Basic colours: white, black, silver and special color options available upon request.
- IP44 rating possible with integration of extra silicon gasket upon request.
- Emergency kit system can be integrated.

Neptun Midi / I02.PLR.15079

LED		SMD LED
Led Power		13W
System Power		15W
Lumen Output from Fixture CRI>80	2700K	1304
	3000K	1344
	3500K	1374
	4000K	1407
	5000K	1449
Lumen Output from Fixture CRI>90	2700K	1185
	3000K	1220
	3500K	1260
	4000K	1295
	5000K	X
Mains Switch Dim Option		✓
1-10V Dimming Option		✓
Dali Dimming Option		✓



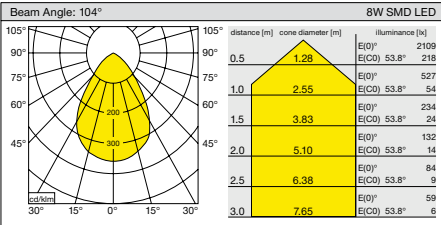
Low inner depth of the luminaire creates advantage to apply this range to ceilings with low depth.



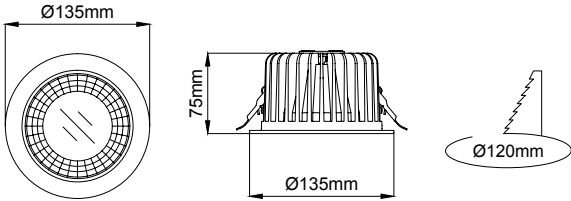
- Die-cast aluminium body.
- Only to be used with electronic Led driver.
- Mains voltage: 220-240V / 50-60Hz.
- Clever thermal design.
- 1-10V, DALI and switch dimming options available upon request.
- High efficient opal diffuser.
- Basic colours: white, black, silver and special color options available upon request.
- IP44 rating possible with integration of extra silicon gasket upon request.
- Emergency kit system can be integrated.

Neptun Mini / I02.PLR.15080

LED		SMD LED
Led Power		7W
System Power		8W
Lumen Output from Fixture CRI>80	2700K	684
	3000K	705
	3500K	723
	4000K	738
	5000K	760
Lumen Output from Fixture CRI>90	2700K	622
	3000K	640
	3500K	660
	4000K	680
Mains Switch Dim Option		✓
1-10V Dimming Option		✓
Dali Dimming Option		✓



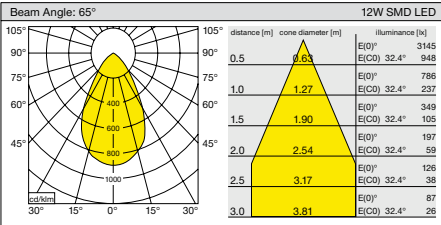
Low inner depth of the luminaire creates advantage to apply this range to ceilings with low depth.

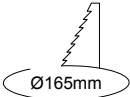
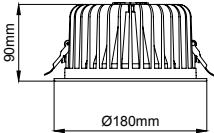
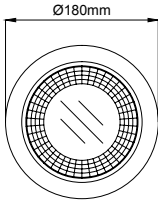


- Die-cast aluminium body.
- Mains voltage: 220-240V / 50-60Hz.
- Clever thermal design.
- 1-10V, DALI and switch dimming options available upon request.
- High efficient opal diffuser.
- Basic colours: white, black, silver, antracite dark gray and special color options available upon request.
- Gold plated reflector option available upon request.
- IP44 rating possible with integration of extra silicon gasket upon request.
- Emergency kit system can be integrated.

Leila Mini / I02.PLR.15068

LED		SMD LED
Led Power		11W
System Power		12W
Lumen Output from Fixture CRI>80	2700K	855
	3000K	880
	3500K	895
	4000K	920
	5000K	948
Lumen Output from Fixture CRI>90	2700K	778
	3000K	801
	3500K	825
	4000K	850
Mains Switch Dim Option		✓
1-10V Dimming Option		✓
Dali Dimming Option		✓

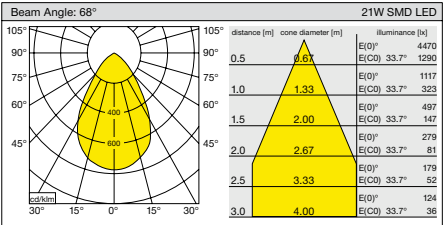


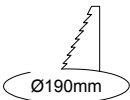
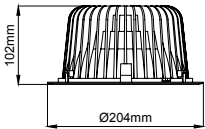
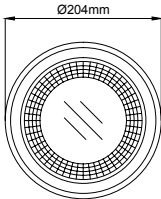


- Die-cast aluminium body.
- Mains voltage: 220-240V / 50-60Hz.
- Clever thermal design.
- 1-10V, DALI and switch dimming options available upon request.
- High efficient opal diffuser.
- Basic colours: white, black, silver, antracite dark gray and special color options available upon request.
- Gold plated reflector option available upon request.
- IP44 rating possible with integration of extra silicon gasket upon request.
- Emergency kit system can be integrated.

Leila Midi / I02.PLR.15070

LED		SMD LED
Led Power		19W
System Power		21W
Lumen Output from Fixture CRI>80	2700K	1320
	3000K	1360
	3500K	1390
	4000K	1425
	5000K	1468
Lumen Output from Fixture CRI>90	2700K	1200
	3000K	1235
	3500K	1273
	4000K	1310
	5000K	X
Mains Switch Dim Option		✓
1-10V Dimming Option		✓
Dali Dimming Option		✓

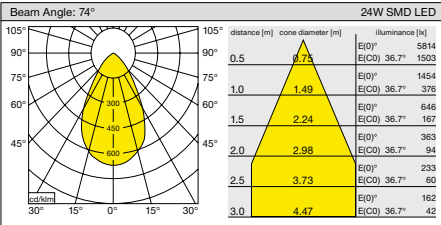


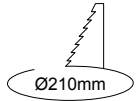
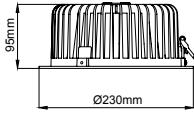
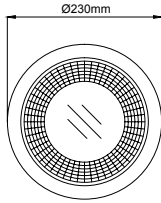


- Die-cast aluminium body.
- Mains voltage: 220-240V / 50-60Hz.
- Clever thermal design.
- 1-10V, DALI and switch dimming options available upon request.
- High efficient opal diffuser.
- Basic colours: white, black, silver, antracite dark gray and special color options available upon request.
- Gold plated reflector option available upon request.
- IP44 rating possible with integration of extra silicon gasket upon request.
- Emergency kit system can be integrated.

Leila / I02.PLR.15072

LED		SMD LED
Led Power		22W
System Power		24W
Lumen Output from Fixture CRI>80	2700K	1820
	3000K	1877
	3500K	1910
	4000K	1962
	5000K	2020
Lumen Output from Fixture CRI>90	2700K	1655
	3000K	1705
	3500K	1758
	4000K	1810
	5000K	X
Mains Switch Dim Option		✓
1-10V Dimming Option		✓
Dali Dimming Option		✓

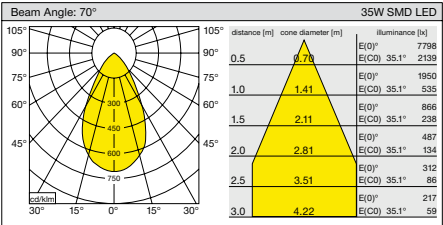


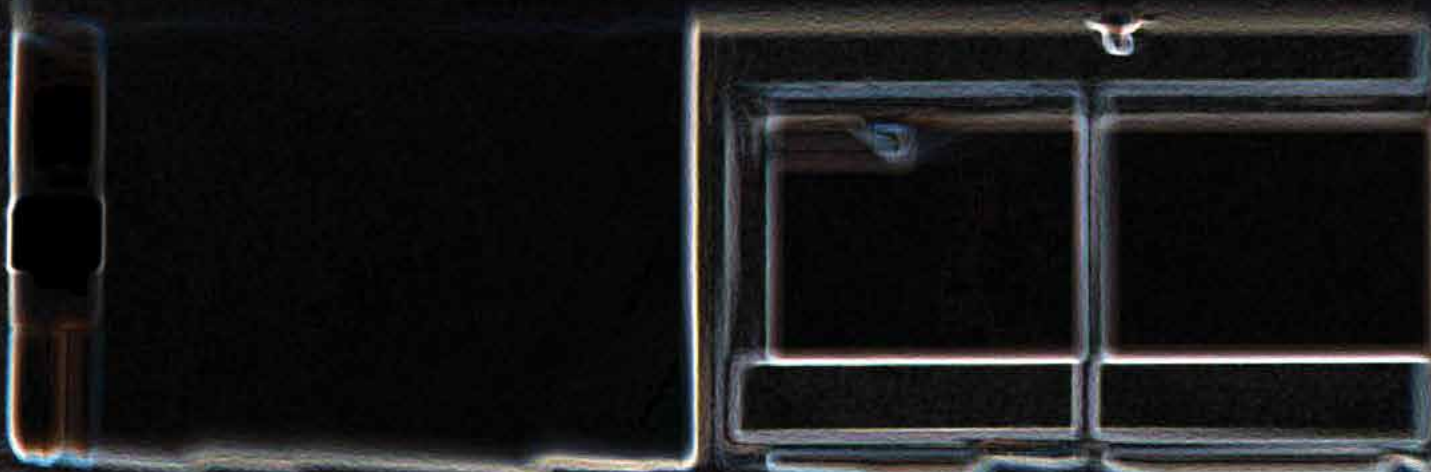
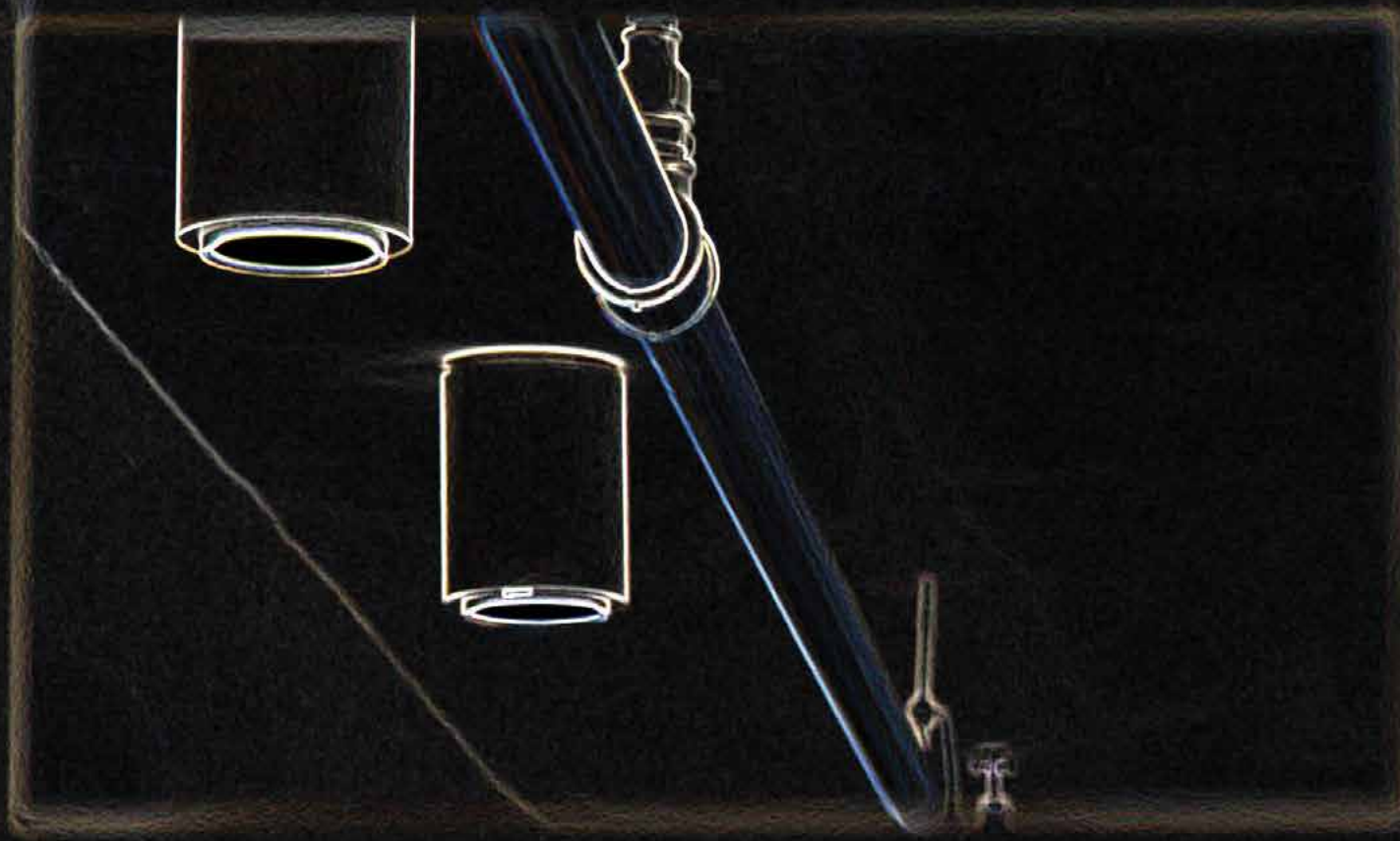


- Die-cast aluminium body.
- Mains voltege: 220-240V / 50-60Hz.
- Clever thermal design.
- 1-10V, DALI and switch dimming options available upon request.
- High efficient opal diffuser.
- Basic colours: white, black, silver, antracite dark gray and special color options available upon request.
- Gold plated reflector option available upon request.
- IP44 rating possible with integration of extra silicon gasket upon request.
- Emergency kit system can be integrated.

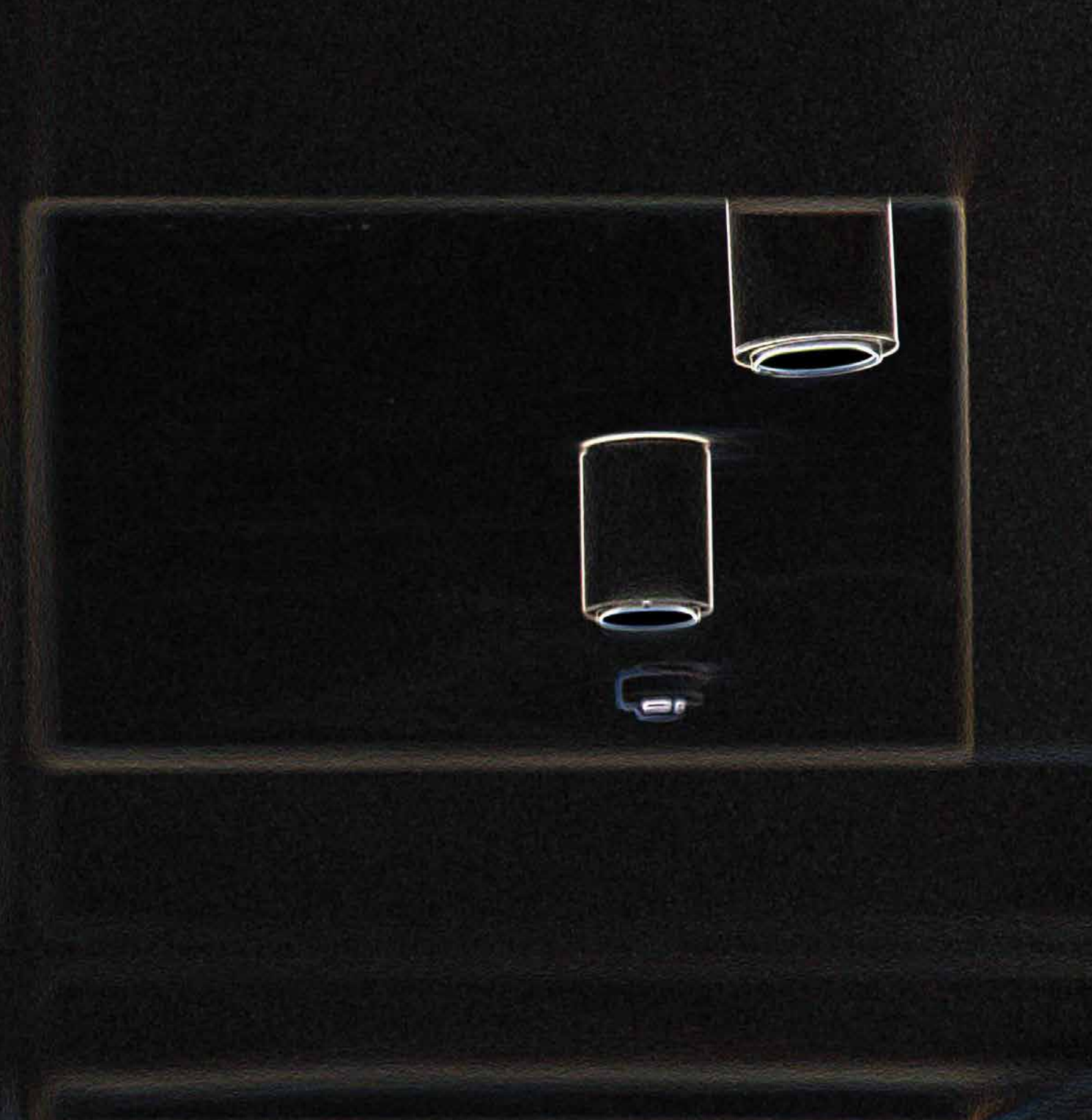
Leila Maxi / I02.PLR.15074

LED		SMD LED
Led Power		32W
System Power		35W
Lumen Output from Fixture CRI>80	2700K	2525
	3000K	2600
	3500K	2660
	4000K	2720
	5000K	2800
Lumen Output from Fixture CRI>90	2700K	2300
	3000K	2370
	3500K	2440
	4000K	2515
	5000K	X
Mains Switch Dim Option		✓
1-10V Dimming Option		✓
Dali Dimming Option		✓

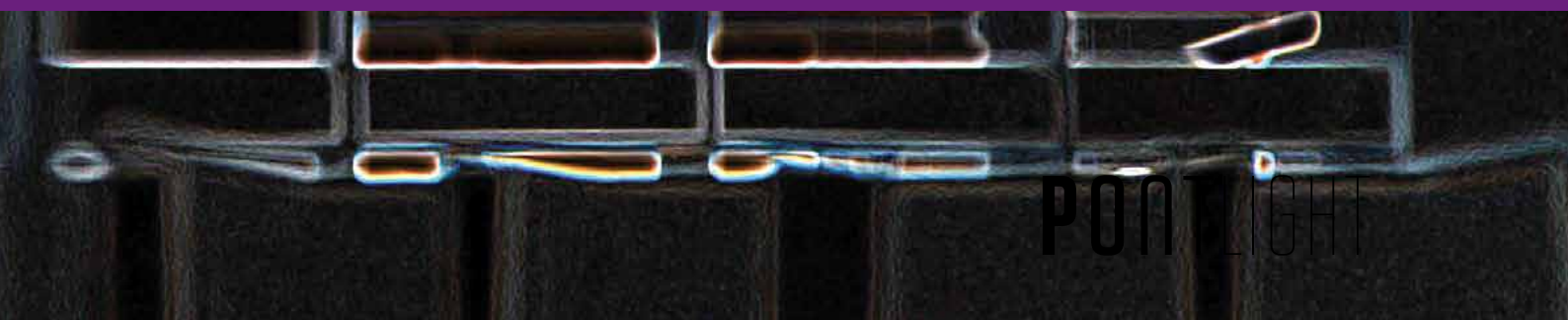




PONTLIGHT



➤ Multichip LED Surface



PONTLIGHT



LED

A A+ A++

DALI

CE

PG

F

±

IP 40

House

12°

20°

30°

40°

60°

WHITE

BLACK

GRAY

DARK GRAY

kg

0

CRI 80

CRI 90

230mm

Ø115mm

Ø137mm

Ø115mm

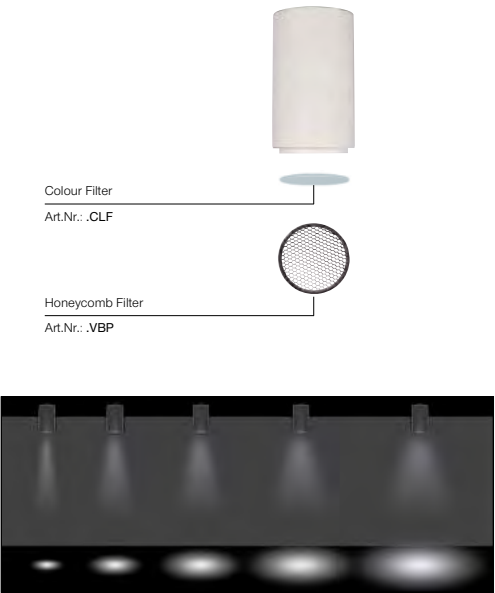
Ø137mm

- Aluminium profile body.
- Mains voltege: 220-240V / 50-60Hz.
- Clever thermal design.
- DALI, 1-10V and switch dimming options available upon request.
- Clear safety glass.
- Basic colours: white, black, silver, dark silver and special color options.
- Rustic black, copper, matt chrome and brass coating options available upon request.
- Honeycomb filter and colour filter accesories available.
- Narrow, medium and wide beam angle options available with rotationally symmetric light distribution.

Pipa Maxi / I01.MLS.16014

LED		COB LED
Led Power		32W
System Power		35W
Lumen Output from Fixture CRI>80	2700K	4100
	3000K	4250
	3500K	4375
	4000K	4500
	5000K	4650
Lumen Output from Fixture CRI>90	2700K	3650
	3000K	3800
	3500K	3915
	4000K	4030
	5000K	X
Meat COB	1800K	X
Food COB	2400K	X
Mains Switch Dim Option		✓
1-10V Dimming Option		✓
Dali Dimming Option		✓

Accessories





LED

A A+ A++

DALI

CE

F

IP 40

20°

30°

40°

60°

WHITE

BLACK

GRAY

DARK GRAY

kg

0

CRI 80

CRI 90

210mm

Ø94mm

Ø118mm

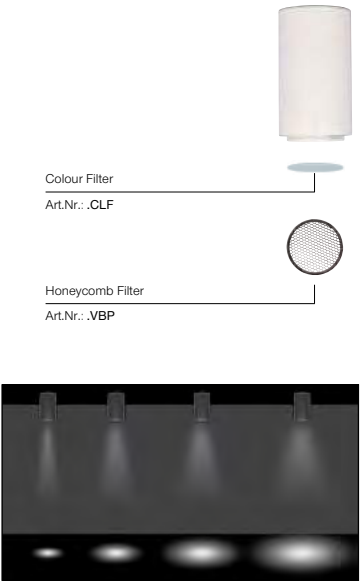
Ø118mm

Ø94mm

Multichip Led Surface

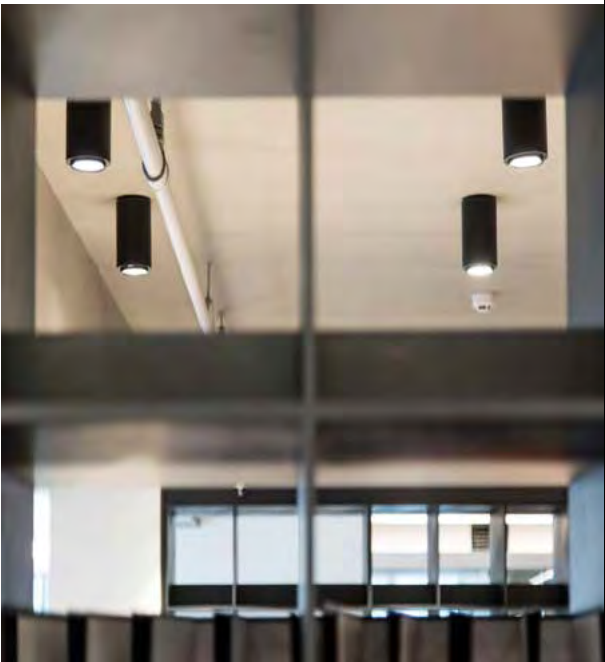
- Aluminium profile body.
- Mains voltege: 220-240V / 50-60Hz.
- Clever thermal design.
- DALI, 1-10V and switch dimming options available upon request.
- Clear safety glass.
- Basic colours: white, black, silver, dark silver and special color options.
- Rustic black, copper, matt chrome and brass coating options available upon request.
- Honeycomb filter and colour filter accesories available.
- Narrow, medium and wide beam angle options available with rotationally symmetric light distribution.

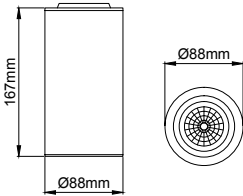
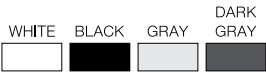
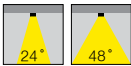
Accessories



Pipa / I01.MLS.17010

LED		COB LED
Led Power		26W
System Power		28W
Lumen Output from Fixture CRI>80	2700K	3150
	3000K	3250
	3500K	3350
	4000K	3450
	5000K	3550
Lumen Output from Fixture CRI>90	2700K	2860
	3000K	2950
	3500K	3040
	4000K	3135
	5000K	X
Meat COB	1800K	X
Food COB	2400K	X
Mains Switch Dim Option		✓
1-10V Dimming Option		✓
Dali Dimming Option		✓

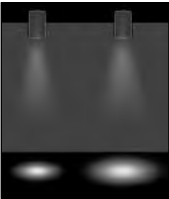
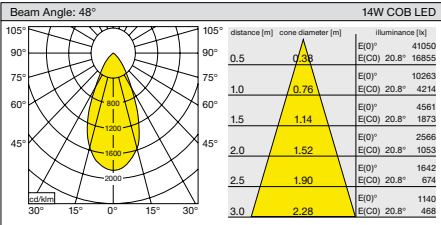
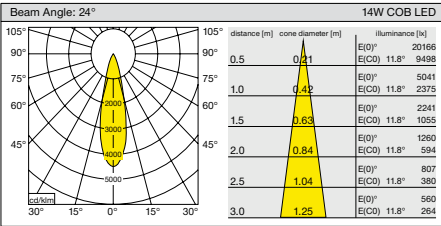




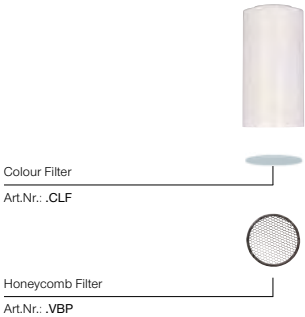
- Aluminium profile body.
- Mains voltage: 220-240V / 50-60Hz.
- Clever thermal design.
- DALI dimming option available upon request.
- Clear safety glass.
- Basic colours: white, black, silver, dark silver and special color options.
- Rustic black, copper, matt chrome and brass coating options available upon request.
- Honeycomb filter and colour filter accesories available.
- Narrow, medium and wide beam angle options available with rotationally symmetric light distribution.

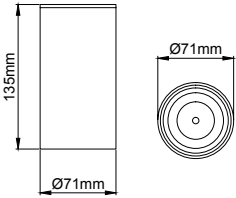
Pipa Midi / 101.MLS.17070

LED		COB LED
Led Power		13W
System Power		14W
Lumen Output from Fixture CRI>80	2700K	1135
	3000K	1170
	3500K	1205
	4000K	1240
	5000K	1280
Lumen Output from Fixture CRI>90	2700K	1032
	3000K	1064
	3500K	1095
	4000K	1129
Meat COB	1800K	X
Food COB	2400K	X
Mains Switch Dim Option		X
1-10V Dimming Option		X
Dali Dimming Option		✓



Accessories



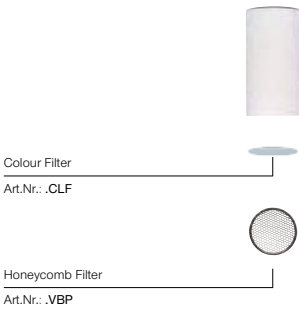
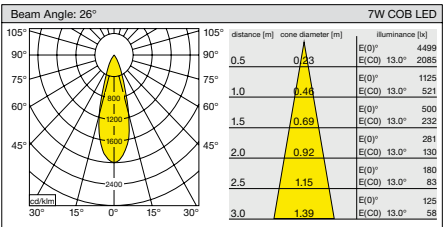


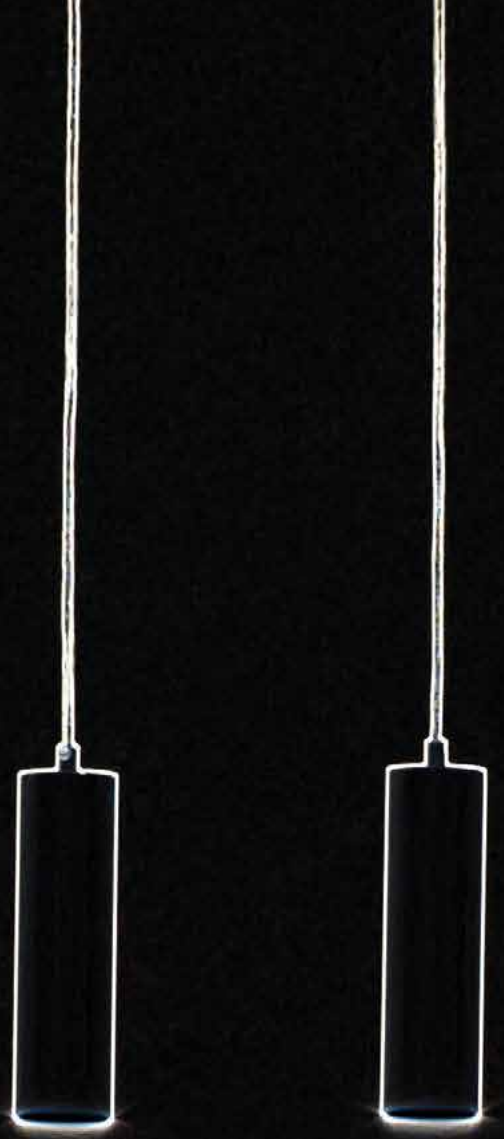
- Aluminium profile body.
- Mains voltege: 220-240V / 50-60Hz.
- Clever thermal design.
- DALI dimming option available upon request.
- Clear safety glass.
- Basic colours: white, black, silver, dark silver and special color options.
- Rustic black, copper, matt chrome and brass coating options available upon request.
- Honeycomb filter and colour filter accesories available.
- Narrow, medium and wide beam angle options available with rotationally symmetric light distribution.

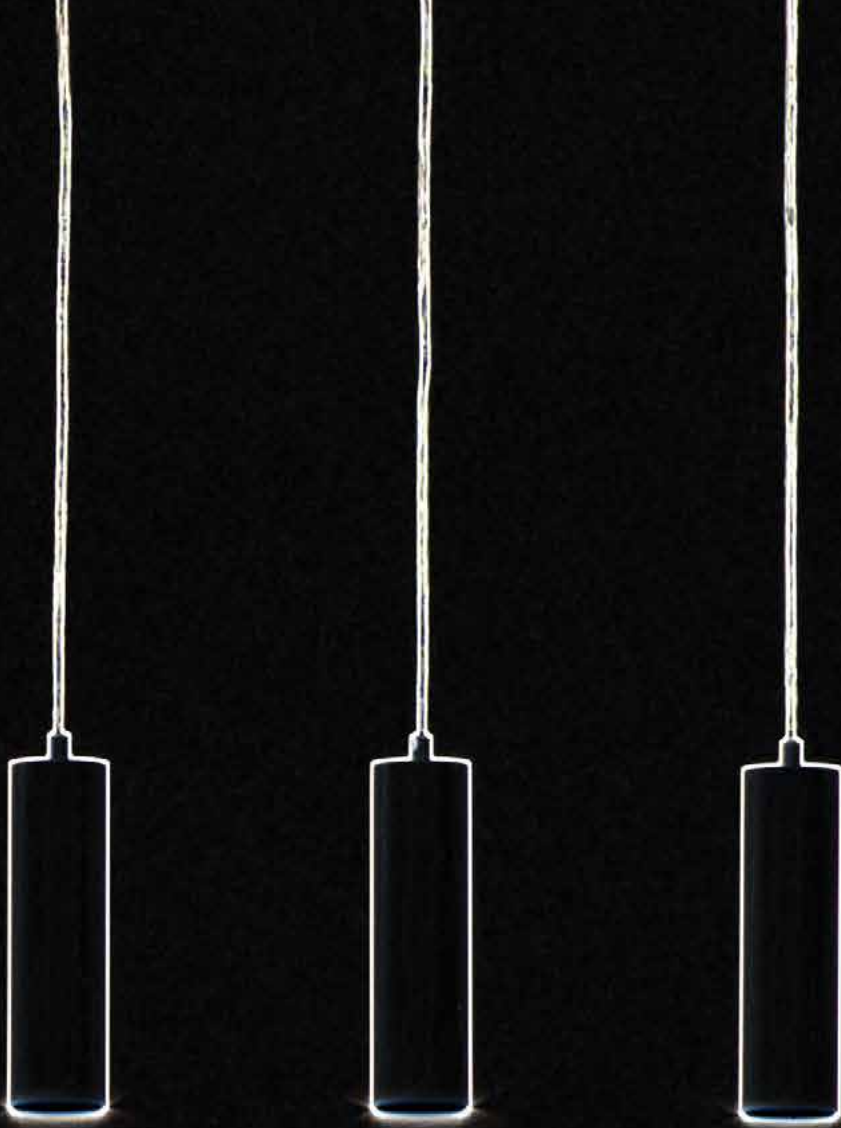
Pipa Mini / 101.MLS.17080

LED		COB LED
Led Power		6W
System Power		7W
Lumen Output from Fixture CRI>80	2700K	650
	3000K	672
	3500K	690
	4000K	713
	5000K	734
Lumen Output from Fixture CRI>90	2700K	590
	3000K	607
	3500K	626
	4000K	645
	5000K	X
Meat COB	1800K	X
Food COB	2400K	X
Mains Switch Dim Option		X
1-10V Dimming Option		X
Dali Dimming Option		✓

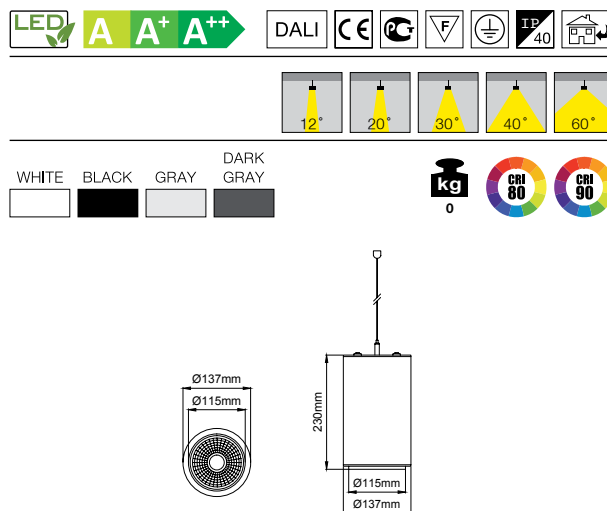
Accessories





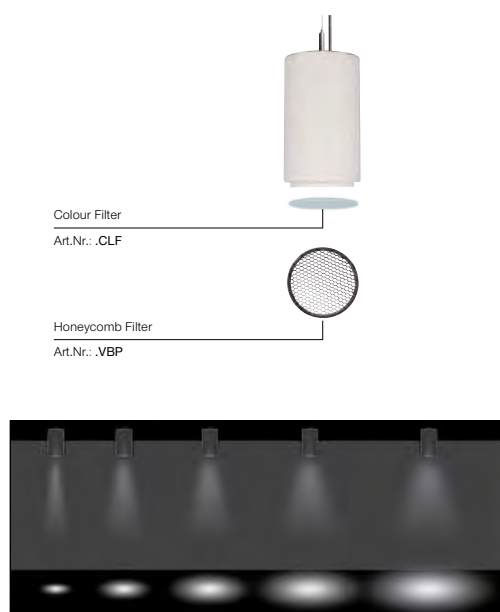


➤ Multichip LED Pendant



- Aluminium profile body.
- Mains voltage: 220-240V / 50-60Hz.
- Clever thermal design.
- DALI, 1-10V and switch dimming options available upon request.
- Clear safety glass.
- Basic colours: white, black, silver, dark silver and special color options.
- Rustic black, copper, matt chrome and brass coating options available upon request.
- Honeycomb filter and colour filter accesories available.
- Narrow, medium and wide beam angle options available with rotationally symmetric light distribution.

Accessories



Pipa Maxi Pendant / I01.MLP.16014

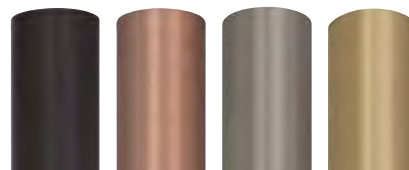
LED		COB LED
Led Power		32W
System Power		35W
Lumen Output from Fixture CRI>80	2700K	4100
	3000K	4250
	3500K	4375
	4000K	4500
	5000K	4650
Lumen Output from Fixture CRI>90	2700K	3650
	3000K	3800
	3500K	3915
	4000K	4030
	5000K	X
Meat COB	1800K	2385
Food COB	2400K	2460
Mains Switch Dim Option		✓
1-10V Dimming Option		✓
Dali Dimming Option		✓



Steel suspension cord with up to 5mt lenght option.



Mains feed cover with integrated cable cord grip integrated.



Rustic black, copper, matt chrome and brass coating options on surface of PIPA.



LED

A A+ A++

DALI

CE

RoHS

F

IP40

Household

20°

30°

40°

60°

WHITE

BLACK

GRAY

DARK GRAY

kg

0

CRI 80

CRI 90

Ø118mm

Ø94mm

210mm

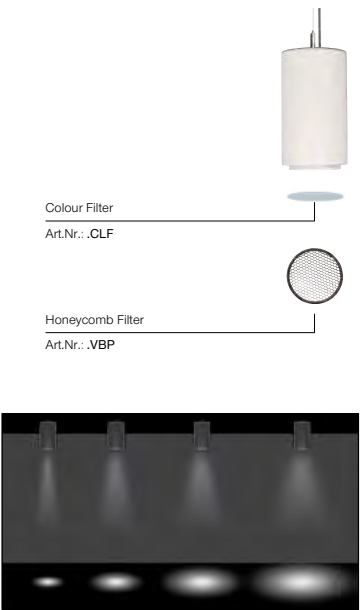
Ø94mm

Ø118mm

Multichip Led Pendant

- Aluminium profile body.
- Mains voltege: 220-240V / 50-60Hz.
- Clever thermal design.
- DALI, 1-10V and switch dimming options available upon request.
- Clear safety glass.
- Basic colours: white, black, silver, dark silver and special color options.
- Rustic black, copper, matt chrome and brass coating options available upon request.
- Honeycomb filter and colour filter accesories available.
- Narrow, medium and wide beam angle options available with rotationally symmetric light distribution.

Accessories



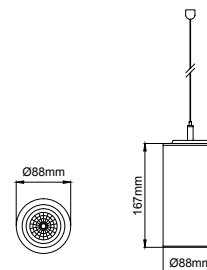
Pipa Pendant / I01.MLP.17010

LED		COB LED
Led Power		26W
System Power		28W
Lumen Output from Fixture CRI>80	2700K	3150
	3000K	3250
	3500K	3350
	4000K	3450
	5000K	3550
Lumen Output from Fixture CRI>90	2700K	2860
	3000K	2950
	3500K	3040
	4000K	3135
	5000K	X
Meat COB	1800K	1725
Food COB	2400K	1775
Mains Switch Dim Option		✓
1-10V Dimming Option		✓
Dali Dimming Option		✓

Steel suspension cord with up to 5mt lenght option.

Mains feed cover with integrated cable cord grip integrated.

Rustic black, copper, matt chrome and brass coating options on surface of PIPA.

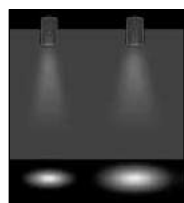
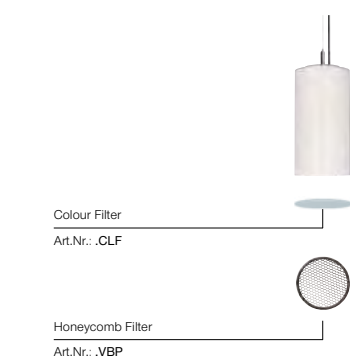


- Aluminium profile body.
- Mains voltage: 220-240V / 50-60Hz.
- Clever thermal design.
- DALI dimming option available upon request.
- Clear safety glass.
- Basic colours: white, black, silver, dark silver and special color options.
- Rustic black, copper, matt chrome and brass coating options available upon request.
- Honeycomb filter and colour filter accesories available.
- Medium and wide beam angle options available with rotationally symmetric light distribution.

Pipa Midi Pendant / I01.MLP.17070

LED		COB LED
Led Power		13W
System Power		14W
Lumen Output from Fixture CRI>80	2700K	1135
	3000K	1170
	3500K	1205
	4000K	1240
	5000K	1280
Lumen Output from Fixture CRI>90	2700K	1032
	3000K	1064
	3500K	1095
	4000K	1129
	5000K	X
Meat COB	1800K	X
Food COB	2400K	X
Mains Switch Dim Option		X
1-10V Dimming Option		X
Dali Dimming Option		✓

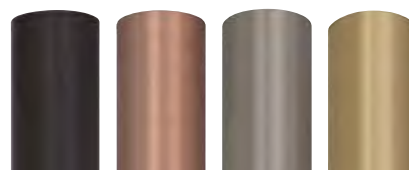
Accessories



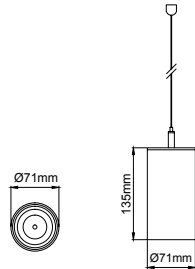
Steel suspension cord with up to 5mt lenght option.



Mains feed cover with integrated cable cord grip integrated.

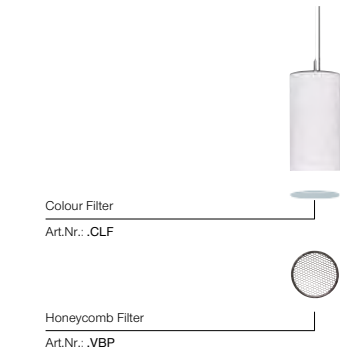


Rustic black, copper, matt chrome and brass coating options on surface of PIPA.



- Aluminium profile body.
- Mains voltage: 220-240V / 50-60Hz.
- Clever thermal design.
- DALI dimming option available upon request.
- Clear safety glass.
- Basic colours: white, black, silver, dark silver and special color options.
- Rustic black, copper, matt chrome and brass coating options available upon request.
- Honeycomb filter and colour filter accesories available.
- Medium beam angle option available with rotationally symmetric light distribution.

Accessories



Pipa Mini Pendant / 101.MLP.17080

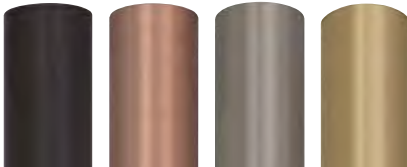
LED		COB LED
Led Power		6W
System Power		7W
Lumen Output from Fixture CRI>80	2700K	650
	3000K	672
	3500K	690
	4000K	713
	5000K	734
Lumen Output from Fixture CRI>90	2700K	590
	3000K	607
	3500K	626
	4000K	645
	5000K	X
Meat COB	1800K	X
Food COB	2400K	X
Mains Switch Dim Option		X
1-10V Dimming Option		X
Dali Dimming Option		✓



Steel suspension cord with up to 5mt lenght option.



Mains feed cover with integrated cable cord grip integrated.



Rustic black, copper, matt chrome and brass coating options on surface of PIPA.

Lumotronic[®]

LED LIGHTING & ELECTRONIC COMPONENTS

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