



## Optec New 120V – The durable universal talent

### **A spotlight for all situations, consistently designed for sustainability**

Durable and adaptable at the same time: the new generation of our top-selling Optec combines these characteristics to achieve maximum sustainability. Optec New is designed for a service life of at least 20 years. The proven, high-efficiency lighting technology for more lux per watt on the target surface is supplemented by a design aimed at durability thanks to high quality components. Thanks to upgrades and updates, Optec also remains adaptable to new

usage scenarios. As with its predecessors, Optec New meets all quality of light needs in shops, galleries, and museums, especially on existing track installations. The system of interchangeable optics and suitable accessories provides limitless flexibility of use, now and well into the future.

## Optec New 120V for 2-circuit track



### Structure and characteristics

The features described here are typical of products in this range. Special versions may offer additional or varying features. A comprehensive description of the features of individual products can be found on our website.

#### 1 ERCO lenses

- Made of optical polymer
- Spherolit lenses: narrow spot, spot, flood, wide flood, extra wide flood, oval flood, oval wide flood or wall-wash
- Zoom lenses: zoom spot or zoom oval; continuously focusable
- Projection lenses: narrow framing or wide framing; continuously focusable

#### 2 Lens unit

- Rotatable through 360°
- Polymer, white or black
- Contour spotlights with framing attachment

#### 3 ERCO LED module

- High-power LEDs: warm white (2700K or 3000K) or neutral white (3500K or 4000K)
- Collimating lens made of optical polymer

#### 4 Cylindrical light head

- White (RAL9002), black or silver
- Cast aluminum, powder-coated
- 270° tilt

#### 5 Housing

- White (RAL9002), black or silver
- Polymer
- Rotatable through 360° on adapter

#### 6 Control gear

- On-board Dim or Casambi Bluetooth
- On-board Dim version: rotary control for control of brightness on the luminaire

#### 7 ERCO turning adapter for 2-circuit track

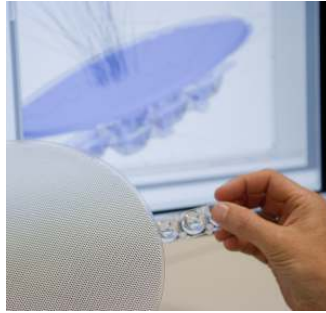
##### Variants on request

- Housing: 10,000 further colors
- Please contact your ERCO consultant.



Design and application:  
[www.erco.com/optec-120V](http://www.erco.com/optec-120V)

# Optec New 120V for 2-circuit track



**Particularly durable**  
Optec New 120V has been designed and tested for a life cycle of about 75,000 hours. This corresponds to a service life of 20 years, presuming standard product use, compliance with maintenance intervals and a period of illumination of about ten hours per day.

**More light on the target surface**  
The lens system, developed and manufactured in-house, precisely projects the light with no spill light. The accent lighting of the ERCO spotlight thus sets itself clearly apart from conventional spotlights.

**Very good price performance ratio**  
Optec New 120V as an entry-level product offers you an attractive price-performance ratio. This is particularly interesting for lighting design tasks with economic efficiency in mind.

Special characteristics	
	Very high durability
	High-efficiency lighting technology
	Very good price performance ratio

	ERCO high-power LEDs
	Efficient Spherolit technology
	Different light distributions
	Oval flood, freely rotatable
	Different light colors

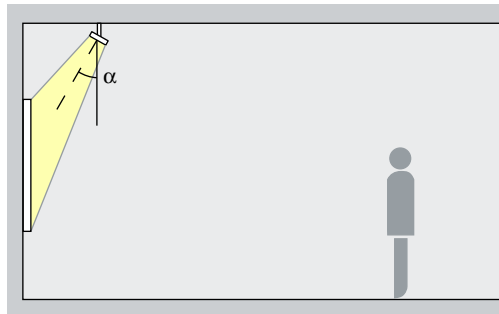
	Excellent thermal management
	EMC-optimized
	Various housing colors
	Various construction sizes
	Pivotable through 270°
	Accessory for maximum visual comfort

	On-board Dim
	Casambi Bluetooth

# Optec New 120V for 2-circuit track – Luminaire arrangement

## Spotlights

Narrow spot, Spot, Flood



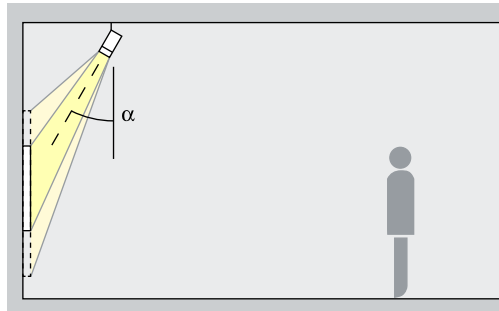
## Accentuation

Optec spotlights accentuate artwork, products and architectural details effectively. The ideal angle of tilt ( $\alpha$ ) for this is around  $30^\circ$ . The object is modeled without distorting the effect as a result of excessive shadowing. It also prevents shadows cast by the observer.

Arrangement:  $\alpha = 30^\circ$

## Zoom spotlights

Zoom spot, Zoom oval



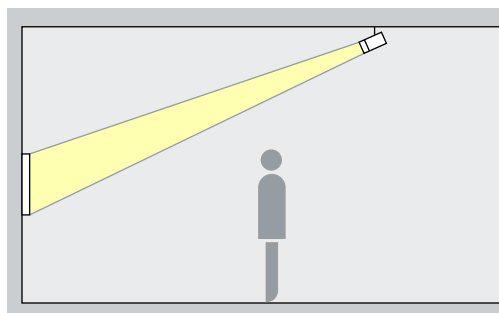
## Accentuation

Zoom spotlights feature a continuously adjustable beam angle. With the spot to wide flood zoom range, smaller works of art can be accentuated effectively at an inclination angle ( $\alpha$ ) of approximately  $30^\circ$ . The oval zoom is suitable for linear works of art. The object is modeled without distorting the effect as a result of excessive shadowing. It also prevents shadows cast by the observer.

Arrangement:  $\alpha = 30^\circ$

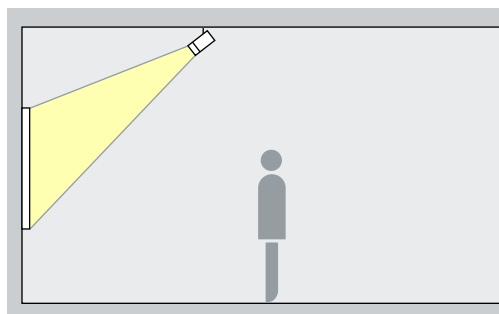
## Contour spotlights

Narrow framing, Wide framing



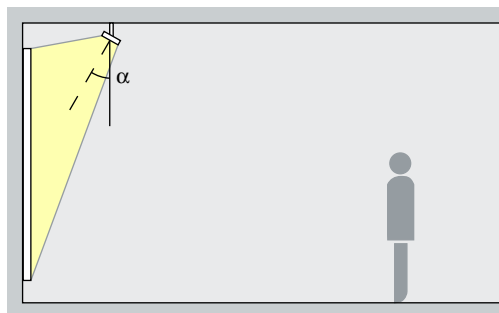
## Projection

Contour spotlights generate freely adjustable, crisp-edged light beams. As a result fascinating effects can be created where pictures appear to illuminate from within. Select narrow framing to accurately illuminate small exhibits from a long distance and wide framing to accurately illuminate large exhibits from a short distance.



## Floodlights

Wide flood, Extra wide flood, Oval wide flood, Oval flood



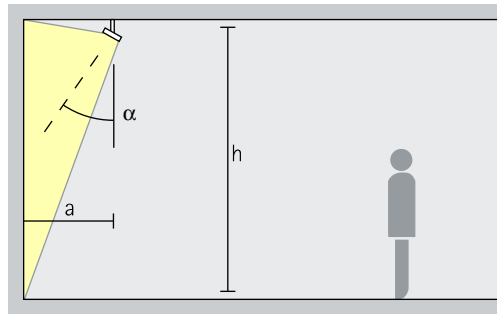
## Washlighting

The ideal angle of tilt ( $\alpha$ ) for floodlighting objects with a long, square shape, e.g. pictures, sculptures or merchandise displays, is around  $30^\circ$ .

Arrangement:  $\alpha = 30^\circ$

# Optec New 120V for 2-circuit track – Luminaire arrangement

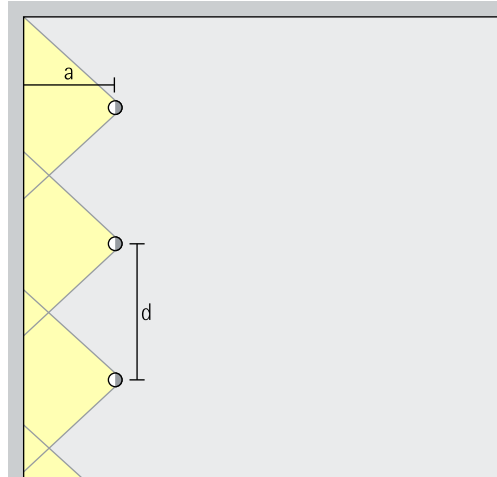
Lens wallwashers  
Wallwash



## Wallwashing

For uniform vertical illuminance, the distance (a) of Optec lens wallwashers from the wall should be around one third of the room height (h). This results in an angle of tilt ( $\alpha$ ) of approx. 35°.

Arrangement:  $a = 1/3 \times h$  or  $\alpha = 35^\circ$



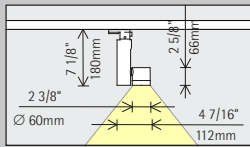
For good longitudinal uniformity, the luminaire spacing (d) of Optec wallwashers may be up to 1.5 times the distance to the wall (a).

Arrangement:  $d \leq 1.5 \times a$

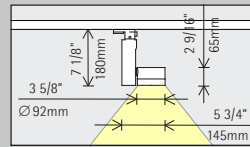
Optimal wall distances and luminaire spacing values for individual products are specified in the wall-washer tables at [www.erco.com](http://www.erco.com).

# Optec New 120V for 2-circuit track

Size



**S**  
Ø 2 3/8"



**M**  
Ø 3 5/8"

LED module  
Maximum value at 4000K CRI 92

6.3W/847lm	3.1W/369lm (Narrow spot)
9.9W/1231lm	

12.8W/1754lm	4.2W/464lm (Narrow spot)
19.6W/2496m	

Light Color

	2700K CRI 92		3500K CRI 92
	3000K CRI 92		4000K CRI 92
	3000K CRI 97		

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	3000K CRI 92		4000K CRI 92
	3000K CRI 97		

Light distribution

Spotlights	Floodlights
Narrow spot	Wide flood
Spot	Extra wide flood
Flood	Oval flood
Zoom spotlights	Oval wide flood
Zoom spot	Lens wallwashers
Zoom oval	Wallwash
Contour spotlights	
Narrow framing	
Wide framing	

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Contour spotlights	
Narrow framing	
Wide framing	

Control

	On-board Dim
	Casambi Bluetooth + 0-10V via Bridge

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	Casambi Bluetooth + 0-10V via Bridge

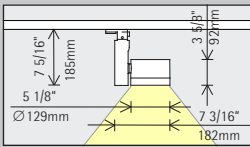
Color (housing)

	White		Silver
	Black		10,000 Colors *

	White		Silver
	Black		10,000 Colors *

Accessory

	Lens Units		Honeycomb louvre		Barn doors
	Lenses		Snoot		Bridges/Gateways* 0-10V, DALI, DMX



L  
 Ø 5 1/8"

25.1W/3387lm	9.3W/1107lm (Narrow spot)
34.8W/4437m	

	2700K CRI 92		3500K CRI 92
	3000K CRI 92		4000K CRI 92
	3000K CRI 97		

Spotlights	Floodlights
Narrow spot	Wide flood
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Zoom spot	Lens wallwashers
Zoom oval	Wallwash
Contour spotlights	
Narrow framing	
Wide framing	

	On-board Dim
	Casambi Bluetooth + 0-10V via Bridge

	White		Silver
	Black		10,000 Colors *

\* available on request

Article numbers and planning data:  
[www.erco.com/026069-us](http://www.erco.com/026069-us)

Design and application:  
[www.erco.com/optec-120V/en\\_us](http://www.erco.com/optec-120V/en_us)

