

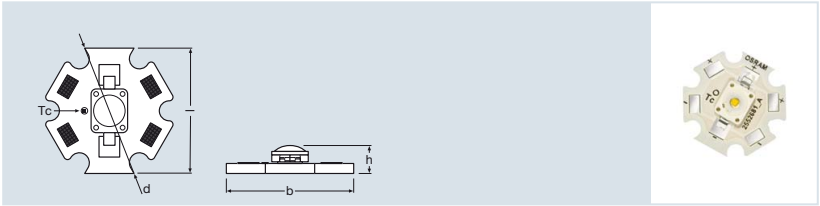


# LED systems

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# DRAGON-X® Plus



Product reference	Product number	COLOR		A	W	
DX01-W4F-830 <sup>1)</sup>	4008321960023	White	1	0.350	1.2	170
DX01-W4F-854 <sup>1)</sup>	4008321960047	White	1	0.350	1.2	170

Product reference	K	lm					
DX01-W4F-830 <sup>1)</sup>	3000	80	20	20	4.5	21.4	60
DX01-W4F-854 <sup>1)</sup>	5400	92	20	20	4.5	21.4	60

<sup>1)</sup> Modules perfectly matched to 350 mA OSRAM OPTOTRONIC® electronic control gear. | For current photometric data and important safety, installation and application information go to [www.osram.com/led-modules](http://www.osram.com/led-modules). | All the technical parameters apply to the entire module. In view of the complex manufacturing process for light emitting diodes, the typical values given above for the technical LED parameters are merely statistical values that do not necessarily correspond to the actual technical parameters of an individual product; individual products may vary from the typical values.

## Product characteristics

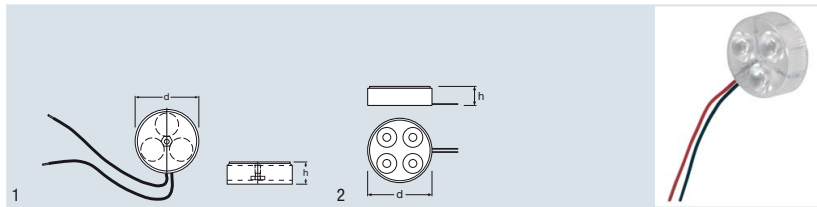
- Hexagonal metal core board equipped with one high-power LED
- Efficiency up to 76 lm/W
- Dimmable



## Product benefits





- Optimum heat removal
- Enormous freedom of design thanks to compact dimensions
- At an operating current of 700 mA the luminous flux increases to 150 lm (DX01-W4F-854) or 130 lm (DX01-W4F-830)
- Low maintenance costs thanks to a lifetime of up to 70,000 hours

## Applications

- For portable fixtures and spotlights
- Safety lighting and signal lights
- Architecture, shop or indoor fixtures



Product reference	Product number	COLOR		A	W	
DP35-W4F-3-827 <sup>1)</sup>	4008321976123	White	3	0.350	3.2	36
DP35-W4F-3-857 <sup>1)</sup>	4008321976147	White	3	0.350	3.2	36
DP35-W4F-7-827 <sup>1)</sup>	4008321976161	White	3	0.700	6.9	36
DP35-W4F-7-857 <sup>1)</sup>	4008321976185	White	3	0.700	6.9	36
DP35-W4F-9-827 <sup>1)</sup>	4008321976208	White	4	0.700	8.9	36
DP35-W4F-9-857 <sup>1)</sup>	4008321976222	White	4	0.700	8.9	36
DP51-W4F-3-827 <sup>1)</sup>	4008321976123	White	3	0.350	3.2	36
DP51-W4F-3-857 <sup>1)</sup>	4008321976246	White	3	0.350	3.2	36
DP51-W4F-7-827 <sup>1)</sup>	4008321976284	White	3	0.700	6.9	36
DP51-W4F-7-857 <sup>1)</sup>	4008321976307	White	3	0.700	6.9	36
DP51-W4F-9-827 <sup>1)</sup>	4008321976321	White	4	0.700	8.9	36
DP51-W4F-9-857 <sup>1)</sup>	4008321976345	White	4	0.700	8.9	36

Product reference	K	cd	lm				
DP35-W4F-3-827 <sup>1)</sup>	2700	540	270	12	35	16	1
DP35-W4F-3-857 <sup>1)</sup>	5700	648	320	12	35	16	1
DP35-W4F-7-827 <sup>1)</sup>	2700	998	500	12	35	16	1
DP35-W4F-7-857 <sup>1)</sup>	5700	1198	600	12	35	16	1
DP35-W4F-9-827 <sup>1)</sup>	2700	1332	670	12	35	16	2
DP35-W4F-9-857 <sup>1)</sup>	5700	1598	800	12	35	16	2
DP51-W4F-3-827 <sup>1)</sup>	2700	540	270	12	51	16	1
DP51-W4F-3-857 <sup>1)</sup>	5700	648	320	12	51	16	1
DP51-W4F-7-827 <sup>1)</sup>	2700	998	500	12	51	16	1
DP51-W4F-7-857 <sup>1)</sup>	5700	1198	600	12	51	16	1
DP51-W4F-9-827 <sup>1)</sup>	2700	1332	670	12	51	16	2
DP51-W4F-9-857 <sup>1)</sup>	5700	1598	800	12	51	16	2

<sup>1)</sup> Modules perfectly matched to 350 mA and 700 mA OSRAM OPTOTRONIC® electronic control gear. | For current photometric data and important safety, installation and application information go to [www.osram.com/led-modules](http://www.osram.com/led-modules). | All the technical parameters apply to the entire module. In view of the complex manufacturing process for light emitting diodes, the typical values given above for the technical LED parameters are merely statistical values that do not necessarily correspond to the actual technical parameters of an individual product; individual products may vary from the typical values.

### Product characteristics

- Luminous intensity comparable to that of halogen lamps MR11 and MR16 (20 W, 35 W, 50 W)
- Integrated optics with a 36° beam angle
- For series connection
- Two-core connecting cable with a length of 200 mm
- Simple fixing with M3 screw
- Dimmable
- FineWhite

### Product benefits

- Module efficiency of up to 100 lm/W, up to 5 times greater than that of halogen lamps
- System\* Guarantee in connection with OSRAM OPTOTRONIC® control gear
- Low maintenance costs thanks to a lifetime of up to 50,000 hours

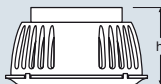
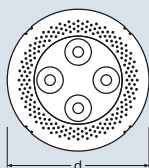
### Applications



- Shop and furniture fixtures
- Hotels
- Restaurants

### Accessories


- Heat sink CPDPHS





Product reference	Product number	COLOR		V	W	
CP51-W4F-4-827 <sup>1)</sup>	4008321975843	White	3	24	4	36
CP51-W4F-4-857 <sup>1)</sup>	4008321975867	White	3	24	4	36
CP51-W4F-8-827 <sup>1)</sup>	4008321975881	White	3	24	8	36
CP51-W4F-8-857 <sup>1)</sup>	4008321975904	White	3	24	8	36
CP51-W4F-10-827 <sup>1)</sup>	4008321975928	White	4	24	10	36
CP51-W4F-10-857 <sup>1)</sup>	4008321975942	White	4	24	10	36

Product reference	K	cd	lm	Cable length [mm]	d [mm]	h [mm]	
CP51-W4F-4-827 <sup>1)</sup>	2700	540	270	500	50	23	20
CP51-W4F-4-857 <sup>1)</sup>	5700	650	320	500	50	23	20
CP51-W4F-8-827 <sup>1)</sup>	2700	1000	500	500	50	23	20
CP51-W4F-8-857 <sup>1)</sup>	5700	1200	600	500	50	23	20
CP51-W4F-10-827 <sup>1)</sup>	2700	1330	670	500	50	23	20
CP51-W4F-10-857 <sup>1)</sup>	5700	1600	800	500	50	23	20

<sup>1)</sup> Modules perfectly matched to 24V OSRAM OPTOTRONIC® electronic control gear. I For current photometric data and important safety, installation and application information go to [www.osram.com/led-modules](http://www.osram.com/led-modules). I All the technical parameters apply to the entire module. In view of the complex manufacturing process for light emitting diodes, the typical values given above for the technical LED parameters are merely statistical values that do not necessarily correspond to the actual technical parameters of an individual product; individual products may vary from the typical values.

### Product characteristics

- Luminous intensity comparable to that of halogen lamps MR16 (20 W, 35 W, 50 W)
- Integrated optics with a 36° beam angle
- High-quality aluminum casing
- For parallel connection
- Three-core connecting cable with a length of 500 mm
- Dimmable
- FineWhite

### Product benefits

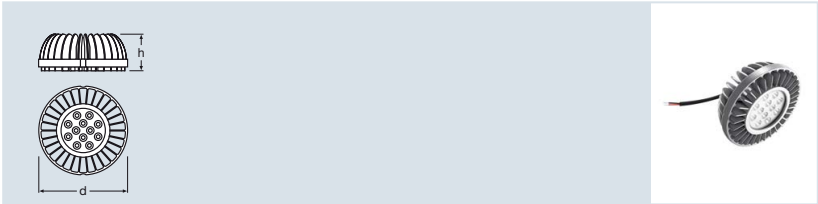
- Suitable for MR16 luminaires
- Module efficiency up to 86 lm/W
- System\* Guarantee in connection with OSRAM OPTOTRONIC® control gear
- Low maintenance costs thanks to a lifetime of up to 50,000 hours
- CP51-W4F-4 can be operated without an additional heat sink
- CP51-W4F-8 can be operated without an additional heat sink (Reduction of lifetime of up to 25,000 h)



### Applications

- Shop and furniture fixtures
- Hotels
- Restaurants




### Accessories

- Heat sink CPDPHS



Product reference	Product number	COLOR		A	W	
CT5B-W4F-827-L24 <sup>1)</sup>	4008321989420	White	5	0.700	12	24
CT5B-W4F-830-L24 <sup>1)</sup>	4008321989444	White	5	0.700	12	24
CT7B-W4F-827-L24 <sup>1)</sup>	4008321989468	White	7	0.700	16	24
CT7B-W4F-830-L24 <sup>1)</sup>	4008321989482	White	7	0.700	16	24
CT11B-W4F-827-L24 <sup>1)</sup>	4008321989505	White	11	0.700	25	24
CT11B-W4F-830-L24 <sup>1)</sup>	4008321989529	White	11	0.700	25	24

Product reference	K	cd	lm	 h [mm]	 d [mm]	
CT5B-W4F-827-L24 <sup>1)</sup>	2700	3500	740	46	111	12
CT5B-W4F-830-L24 <sup>1)</sup>	3000	4000	820	46	111	12
CT7B-W4F-827-L24 <sup>1)</sup>	2700	5000	1040	46	111	12
CT7B-W4F-830-L24 <sup>1)</sup>	3000	5500	1140	46	111	12
CT11B-W4F-827-L24 <sup>1)</sup>	2700	7780	1620	46	111	12
CT11B-W4F-830-L24 <sup>1)</sup>	3000	8500	1780	46	111	12

<sup>1)</sup> Modules perfectly matched to constant-current OSRAM OPTOTRONIC® electronic control gear | For current photometric data and important safety, installation and application information go to [www.osram.com/led-modules](http://www.osram.com/led-modules). | All the technical parameters apply to the entire module. In view of the complex manufacturing process for light emitting diodes, the typical values given above for the technical LED parameters are merely statistical values that do not necessarily correspond to the actual technical parameters of an individual product; individual products may vary from the typical values.

Product characteristics

- Luminous intensity comparable to that of halogen lamps AR111 (50 W, 75 W, 100 W)
- Integrated optics and heat sink
- For series connection
- Two-core connecting cable
- Dimmable
- FineWhite

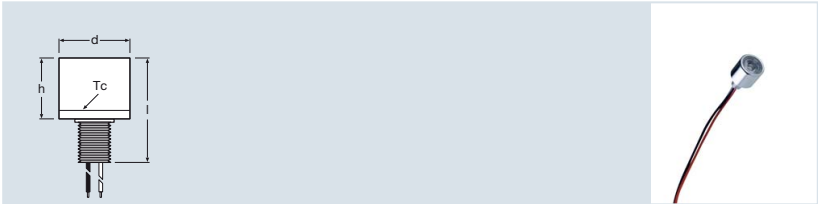
Product benefits




- Suitable for AR111 luminaires
- Module efficiency up to 71 lm/W
- No additional heat sink required
- System\* Guarantee in connection with OSRAM OPTOTRONIC® control gear
- Low maintenance costs thanks to a lifetime of up to 30,000 hours

Applications

- Hotels
- Offices
- Shop
- Museums, art galleries





Product reference	Product number	COLOR		A	W	
DE1-W3F-830 <sup>1)</sup>	4008321 <b>365361</b>	White	1	0.35	1.2	15
DE1-W4F-854 <sup>1)</sup>	4008321 <b>364999</b>	White	1	0.35	1.2	15
Product reference	K	cd	Cable length (mm)	h (mm)	d (mm)	
DE1-W3F-830 <sup>1)</sup>	3000	485	500	33	23	264
DE1-W4F-854 <sup>1)</sup>	5400	650	500	33	23	264

<sup>1)</sup> Modules perfectly matched to 350 mA OSRAM OPTOTRONIC® electronic control gear. | For current photometric data and important safety, installation and application information go to [www.osram.com/led-modules](http://www.osram.com/led-modules). | All the technical parameters apply to the entire module. In view of the complex manufacturing process for light emitting diodes, the typical values given above for the technical LED parameters are merely statistical values that do not necessarily correspond to the actual technical parameters of an individual product; individual products may vary from the typical values.

**Product characteristics**

- Metal casing with M10x1.5 thread for simple mounting
- No additional heat sink required
- Type of protection IP65 according to DIN EN 60529
- For series connection
- Two-core connecting cable with a length of 500 mm
- For series connection
- Dimmable
- FineWhite

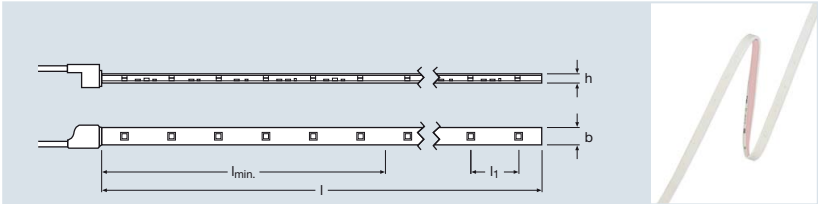
**Product benefits**

- Narrow beam angle for use as a spotlight
- Perfect centering thanks to flange on the floor of the casing (diameter 12 mm)
- Low maintenance costs thanks to a lifetime of up to 70,000 hours







**Applications**

- For accent, orientation or route lighting indoors and outdoors
- Lighting in furniture and shelving

# LINEARlight POWER Flex Protect



Product reference	Product number	COLOR		V	W	
LF06P-W4F-827-P <sup>1)</sup>	4008321621894	White	120	24	72	120
LF06P-W4F-830-P <sup>1)</sup>	4008321621870	White	120	24	72	120
LF06P-W4F-840-P <sup>1)</sup>	4008321621856	White	120	24	72	120
LF06P-W4F-854-P <sup>1)</sup>	4008321621917	White	120	24	72	120

Product reference	K	lm						
LF06P-W4F-827-P <sup>1)</sup>	2700	2880	3000	150	25	11	4.5	8
LF06P-W4F-830-P <sup>1)</sup>	3000	2880	3000	150	25	11	4.5	8
LF06P-W4F-840-P <sup>1)</sup>	4000	3650	3000	150	25	11	4.5	8
LF06P-W4F-854-P <sup>1)</sup>	5400	3650	3000	150	25	11	4.5	8

<sup>1)</sup> Modules perfectly matched to 24V OSRAM OPTOTRONIC® electronic control gear. | For current photometric data and important safety, installation and application information go to [www.osram.com/led-modules](http://www.osram.com/led-modules). | All the technical parameters apply to the entire module. In view of the complex manufacturing process for light emitting diodes, the typical values given above for the technical LED parameters are merely statistical values that do not necessarily correspond to the actual technical parameters of an individual product; individual products may vary from the typical values.

## Product characteristics

- IP67 protected flexible and cuttable LED strip
- Luminous flux of up to 1200 lm/m
- With pre-assembled feeder for simple connection
- Dimmable
- FineWhite

## Product benefits

- High-performance silicon for extremely long life and flexibility
- Stylish design
- Highly UV-resistant
- Salt mist proof

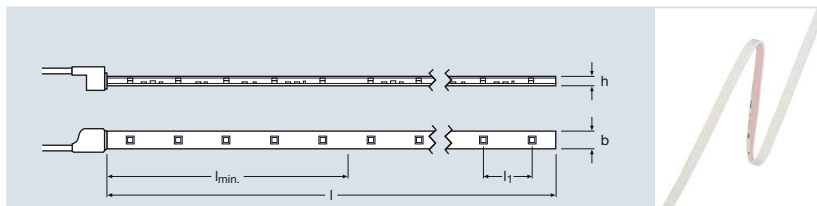
## Applications

- Facade accent lighting
- Ceiling integration, wall integration
- Cove lighting
- Machine lighting
- Path lighting, signage

## Accessories

- IP67 protected CONNECTsystem LF-PROTECT for simple installation without soldering
- LINEARlight Track LT

# LINEARlight Flex® Protect ADVANCED



Product reference	Product number	COLOR		V	W		$\lambda$
LF05A-W3F-830-P <sup>1)</sup>	4008321617217	White	495	24	72	120	—
LF05A-W3F-840-P <sup>1)</sup>	4008321619266	White	495	24	72	120	—
LF05A-W3F-860-P <sup>1)</sup>	4008321617392	White	495	24	72	120	—
LF05A-B3-P <sup>1)</sup>	4008321617804	Blue	495	24	72	120	467

Product reference	K	lm	$\frac{l}{[mm]}$	$\frac{l_{min.}}{[mm]}$	$\frac{l_1}{[mm]}$	$\frac{b}{[mm]}$	$\frac{h}{[mm]}$	
LF05A-W3F-830-P <sup>1)</sup>	3000	2100	9900	100	20	11	4.5	8
LF05A-W3F-840-P <sup>1)</sup>	4000	2700	9900	100	20	11	4.5	8
LF05A-W3F-860-P <sup>1)</sup>	6000	2100	9900	100	20	11	4.5	8
LF05A-B3-P <sup>1)</sup>	—	840	9900	100	20	11	4.5	8

<sup>1)</sup> Modules perfectly matched to 24V OSRAM OPTOTRONIC® electronic control gear. | For current photometric data and important safety, installation and application information go to [www.osram.com/led-modules](http://www.osram.com/led-modules). | All the technical parameters apply to the entire module. In view of the complex manufacturing process for light emitting diodes, the typical values given above for the technical LED parameters are merely statistical values that do not necessarily correspond to the actual technical parameters of an individual product; individual products may vary from the typical values.

## Product characteristics

- IP67 protected flexible and cuttable LED strip
- Extremely long for seamless light, with small pitches
- With pre-assembled feeder for simple connection
- Dimmable
- FineWhite

## Product benefits

- High-performance silicon for extremely long life and flexibility
- Simple mounting and connection
- Stylish design
- Highly UV-resistant
- Salt mist proof

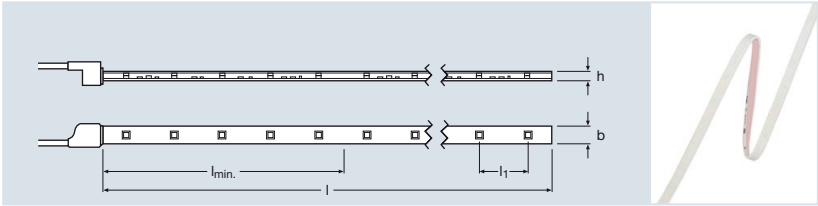
## Applications



- Cove lighting
- Wall integration
- Hand rails, corridors
- Machine lighting
- Path lighting, signage

## Accessories


- IP67 protected CONNECTsystem LF-PROTECT for simple installation without soldering
- LINEARlight Track LT

# LINEARlight Flex® Protect ECO



Product reference	Product number	COLOR		V	W		$\lambda$
LF05E-W2F-830-P <sup>1)</sup>	4008321616432	White	200	24	24.5	120	—
LF05E-W2F-840-P <sup>1)</sup>	4008321621184	White	200	24	24.5	120	—
LF05E-W2F-860-P <sup>1)</sup>	4008321616777	White	200	24	24.5	120	—
LF05E-B2-P <sup>1)</sup>	4008321616913	Blue	200	24	24.5	120	467
LF05E-R1-P <sup>1)</sup>	4008321616937	Red	200	24	36	120	625
LF05E-T2-P <sup>1)</sup>	4008321616951	Green	200	24	24.5	120	522
LF05E-Y1-P <sup>1)</sup>	4008321616975	Yellow	200	24	36	120	587

Product reference	K	lm	$\frac{l}{[mm]}$	$\frac{l_{min.}}{[mm]}$	$\frac{l_r}{[mm]}$	$\frac{b}{[mm]}$	$\frac{h}{[mm]}$	
LF05E-W2F-830-P <sup>1)</sup>	3000	765	6000	150	30	11	4.5	8
LF05E-W2F-840-P <sup>1)</sup>	4000	940	6000	150	30	11	4.5	8
LF05E-W2F-860-P <sup>1)</sup>	6000	765	6000	150	30	11	4.5	8
LF05E-B2-P <sup>1)</sup>	—	290	6000	150	30	11	4.5	8
LF05E-R1-P <sup>1)</sup>	—	840	6000	150	30	11	4.5	8
LF05E-T2-P <sup>1)</sup>	—	940	6000	150	30	11	4.5	8
LF05E-Y1-P <sup>1)</sup>	—	840	6000	150	30	11	4.5	8

<sup>1)</sup> Modules perfectly matched to 24V OSRAM OPTOTRONIC® electronic control gear. | For current photometric data and important safety, installation and application information go to [www.osram.com/led-modules](http://www.osram.com/led-modules). | All the technical parameters apply to the entire module. In view of the complex manufacturing process for light emitting diodes, the typical values given above for the technical LED parameters are merely statistical values that do not necessarily correspond to the actual technical parameters of an individual product; individual products may vary from the typical values.

### Product characteristics

- IP67 protected flexible and cuttable LED strip
- With pre-assembled feeder for simple connection
- Dimmable
- FineWhite

### Product benefits

- High-performance silicon for extremely long life and flexibility
- Stylish design
- Highly UV-resistant
- Salt mist proof

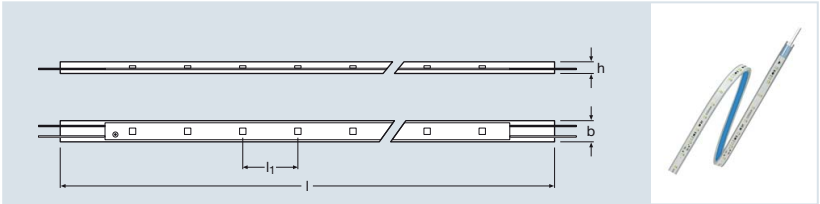
### Applications











- Decorative applications
- Wall integration
- Backlighting of complex structures
- Path lighting, signage

### Accessories

- IP67 protected CONNECTsystem LF-PROTECT for simple installation without soldering
- LINEARlight Track LT

# LINEARlight Flex® Value IP



Product reference	Product number	COLOR		V	W			
VI05A-W3-730 <sup>1)</sup>	4008321643933	White	300	24	25	120		
VI05A-W3-760 <sup>1)</sup>	4008321643957	White	300	24	25	120		
Product reference								
VI05A-W3-730 <sup>1)</sup>	3000	1250	6000	100	20	11	6	8
VI05A-W3-760 <sup>1)</sup>	6000	1300	6000	100	20	11	6	8

<sup>1)</sup> Modules perfectly matched to 24V OSRAM OPTOTRONIC® electronic control gear. | For current photometric data and important safety, installation and application information go to [www.osram.com/led-modules](http://www.osram.com/led-modules). | All the technical parameters apply to the entire module. In view of the complex manufacturing process for light emitting diodes, the typical values given above for the technical LED parameters are merely statistical values that do not necessarily correspond to the actual technical parameters of an individual product; individual products may vary from the typical values.

### Product characteristics

- IP66 protected flexible LED strip
- Simple connection thanks to integrated cables on both sides
- Dimmable

### Product benefits

- Low profile
- Salt mist proof

### Applications

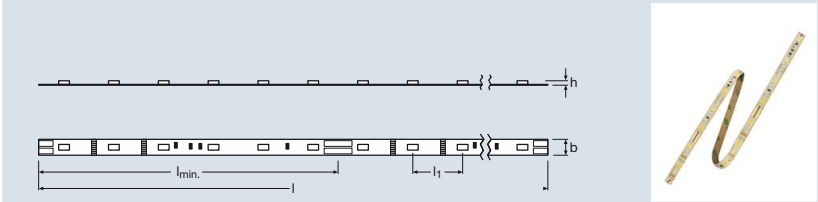
- Signage/illuminated lettering
- Architecture lighting
- Wall integration



### Accessories

- Included: clips, end caps, IP65 connector
- LINEARlight Track LT









# LINEARlight POWER Flex Generation II



Product reference	Product number	COLOR		V	W	
LF06P2-W5F-827 <sup>1)</sup>	4008321971272	White	120	24	68	120
LF06P2-W5F-830 <sup>1)</sup>	4008321971296	White	120	24	68	120
LF06P2-W5F-840 <sup>1)</sup>	4008321971319	White	120	24	68	120
LF06P2-W5F-854 <sup>1)</sup>	4008321971791	White	120	24	68	120
LF06P2-W5F-865 <sup>1)</sup>	4008321971340	White	120	24	68	120

Product reference	K	lm						
LF06P2-W5F-827 <sup>1)</sup>	2700	4792	3000	150	25	8	2.5	8
LF06P2-W5F-830 <sup>1)</sup>	3000	5168	3000	150	25	8	2.5	8
LF06P2-W5F-840 <sup>1)</sup>	4000	5544	3000	150	25	8	2.5	8
LF06P2-W5F-854 <sup>1)</sup>	5400	5544	3000	150	25	8	2.5	8
LF06P2-W5F-865 <sup>1)</sup>	6500	5544	3000	150	25	8	2.5	8

<sup>1)</sup> Modules perfectly matched to 24V OSRAM OPTOTRONIC® electronic control gear. l For current photometric data and important safety, installation and application information go to [www.osram.com/led-modules](http://www.osram.com/led-modules). l All the technical parameters apply to the entire module. In view of the complex manufacturing process for light emitting diodes, the typical values given above for the technical LED parameters are merely statistical values that do not necessarily correspond to the actual technical parameters of an individual product; individual products may vary from the typical values.

### Product characteristics

- Flexible cuttable LED strip
- Luminous flux of up to 1800 lm/m
- Large selection of light colors
- Dimmable
- Powerful LED light source
- FineWhite

### Product benefits

- Module efficiency up to 80 lm/W
- Low profile

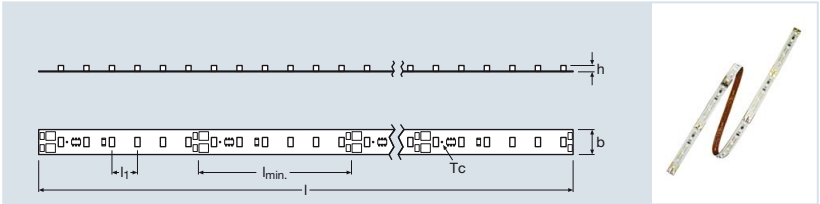
### Applications

- Cove lighting
- Signage (advertising and lettering)

### Accessories

- CONNECTsystem LF for simple installation without soldering
- LINEARlight Track LT

# LINEARlight Flex® ShortPitch



Product reference	Product number	COLOR		V	A	W	
LF06S-W3F-827 <sup>1)</sup>	4008321973887	White	720	24	2.4	58	120
LF06S-W3F-830 <sup>1)</sup>	4008321973894	White	720	24	2.4	58	120
LF06S-W3F-840 <sup>1)</sup>	4008321973900	White	720	24	2.4	58	120
LF06S-W3F-854 <sup>1)</sup>	4008321973917	White	720	24	2.4	58	120
LF06S-W3F-865 <sup>1)</sup>	4008321973924	White	720	24	2.4	58	120

Product reference	K	lm	 l [mm]	 l min. [mm]	 l [mm]	 b [mm]	 h [mm]	
LF06S-W3F-827 <sup>1)</sup>	2700	4680	6000	50	8.33	8	2	8
LF06S-W3F-830 <sup>1)</sup>	3000	4680	6000	50	8.33	8	2	8
LF06S-W3F-840 <sup>1)</sup>	4000	5076	6000	50	8.33	8	2	8
LF06S-W3F-854 <sup>1)</sup>	5400	5076	6000	50	8.33	8	2	8
LF06S-W3F-865 <sup>1)</sup>	6500	5076	6000	50	8.33	8	2	8

<sup>1)</sup> Modules perfectly matched to 24V OSRAM OPTOTRONIC® electronic control gear. | For current photometric data and important safety, installation and application information go to [www.osram.com/led-modules](http://www.osram.com/led-modules). | All the technical parameters apply to the entire module. In view of the complex manufacturing process for light emitting diodes, the typical values given above for the technical LED parameters are merely statistical values that do not necessarily correspond to the actual technical parameters of an individual product; individual products may vary from the typical values.

## Product characteristics

- Flexible LED strip
- Very small LED spacing
- Luminous flux of up to 840 lm/m
- FineWhite

## Product benefits

- Suitable for low-profile enclosed fittings
- Module efficiency up to 88 lm/W

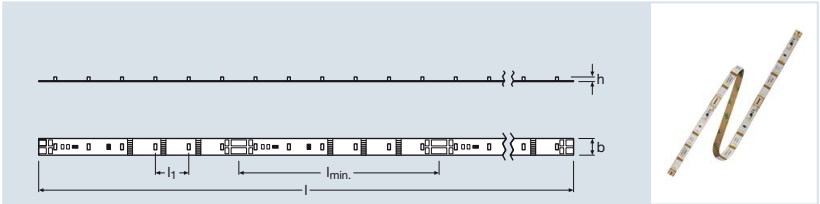
## Applications

- Edge injection
- Small coving
- Path lighting, contour accent lighting
- Signage (advertising and lettering)

## Accessories

- CONNECTsystem LF for simple installation without soldering
- LINEARlight Track LT

LINEARlight Flex® ADVANCED Generation II



Product reference	Product number	COLOR		V	W		$\lambda$
LF06A-W3F-827 <sup>1)</sup>	4008321973986	White	600	24	48	120	—
LF06A-W3F-830 <sup>1)</sup>	4008321973993	White	600	24	48	120	—
LF06A-W3F-840 <sup>1)</sup>	4008321974006	White	600	24	48	120	—
LF06A-W3F-854 <sup>1)</sup>	4008321974013	White	600	24	48	120	—
LF06A-W3F-865 <sup>1)</sup>	4008321974020	White	600	24	48	120	—

Product reference	K	lm	 l [mm]	 l min. [mm]	 l <sub>p</sub> [mm]	 b [mm]	 h [mm]	
LF06A-W3F-827 <sup>1)</sup>	2700	3900	10000	100	16.7	8	2.1	8
LF06A-W3F-830 <sup>1)</sup>	3000	3900	10000	100	16.7	8	2.1	8
LF06A-W3F-840 <sup>1)</sup>	4000	4230	10000	100	16.7	8	2.1	8
LF06A-W3F-854 <sup>1)</sup>	5400	4230	10000	100	16.7	8	2.1	8
LF06A-W3F-865 <sup>1)</sup>	6500	4230	10000	100	16.7	8	2.1	8

<sup>1)</sup> Modules perfectly matched to 24V OSRAM OPTOTRONIC® electronic control gear. <sup>1)</sup> For current photometric data and important safety, installation and application information go to [www.osram.com/led-modules](http://www.osram.com/led-modules). <sup>1)</sup> All the technical parameters apply to the entire module. In view of the complex manufacturing process for light emitting diodes, the typical values given above for the technical LED parameters are merely statistical values that do not necessarily correspond to the actual technical parameters of an individual product; individual products may vary from the typical values.

Product characteristics

- Flexible cuttable LED strip
- Very long for seamless bands of light, yet cuttable into small units
- Large selection of light colors
- Dimmable
- FineWhite

Product benefits

- Module efficiency up to 88 lm/W
- Low profile

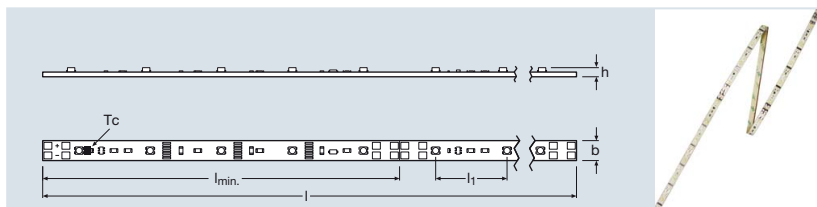
Applications

- Cove lighting
- Signage (advertising and lettering)

Accessories

- CONNECTsystem LF for simple installation without soldering
- LINEARlight Track LT

# LINEARlight Flex® ECO



Product reference	Product number	COLOR		V	W		$\lambda$
LF05E2-W2F-827 <sup>1)</sup>	4008321971357	White	500	24	36	120	—
LF05E2-W2F-730 <sup>1)</sup>	4008321971371	White	500	24	36	120	—
LF05E2-W2F-740 <sup>1)</sup>	4008321971395	White	500	24	36	120	—
LF05E2-W2F-865 <sup>1)</sup>	4008321971418	White	500	24	36	120	—
LF05E-B2 <sup>1)</sup>	4008321955425	Blue	200	24	24.5	120	470
LF05E-R1 <sup>1)</sup>	4008321955418	Red	200	24	36	120	625
LF05E-T2 <sup>1)</sup>	4008321955449	Green	200	24	24.5	120	525
LF05E-Y1 <sup>1)</sup>	4008321955432	Yellow	200	24	36	120	587

Product reference	K	Im	$\frac{L}{[mm]}$	$\frac{L_{min}}{[mm]}$	$\frac{L_1}{[mm]}$	$\frac{b}{[mm]}$	$\frac{h}{[mm]}$	
LF05E2-W2F-827 <sup>1)</sup>	2700	2200	10000	100	20	8	2.5	8
LF05E2-W2F-730 <sup>1)</sup>	3000	2200	10000	100	20	8	2.5	8
LF05E2-W2F-740 <sup>1)</sup>	4000	2400	10000	100	20	8	2.5	8
LF05E2-W2F-865 <sup>1)</sup>	6500	2200	10000	100	20	8	2.5	8
LF05E-B2 <sup>1)</sup>	—	290	6000	150	30	8	2.5	8
LF05E-R1 <sup>1)</sup>	—	840	6000	150	30	8	2.5	8
LF05E-T2 <sup>1)</sup>	—	940	6000	150	30	8	2.5	8
LF05E-Y1 <sup>1)</sup>	—	840	6000	150	30	8	2.5	8

<sup>1)</sup> Modules perfectly matched to 24V OSRAM OPTOTRONIC® electronic control gear. | For current photometric data and important safety, installation and application information go to [www.osram.com/led-modules](http://www.osram.com/led-modules). | All the technical parameters apply to the entire module. In view of the complex manufacturing process for light emitting diodes, the typical values given above for the technical LED parameters are merely statistical values that do not necessarily correspond to the actual technical parameters of an individual product; individual products may vary from the typical values.

## Product characteristics

- Flexible cuttable LED strip
- Very long for seamless bands of light
- Dimmable
- FineWhite

## Product benefits

- Low profile

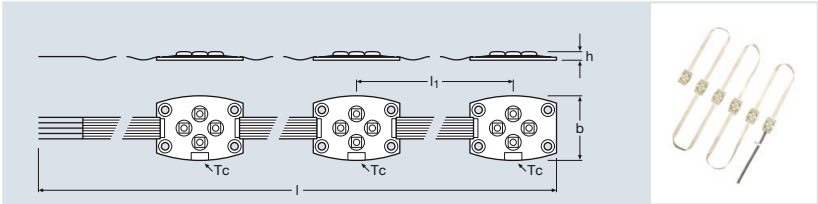
## Applications













- Decorative applications
- Signage
- Orientation lighting

## Accessories

- CONNECTsystem LF for simple installation without soldering
- LINEARlight Track LT

**DRAGONchain® Tunable White**



Product reference	Product number						
DC24B-TW <sup>1) 3)</sup>	4008321 <b>709233</b>	Tunable White	24	24	24	135	
Product reference							
DC24B-TW <sup>1) 3)</sup>	2700...6500	1770 <sup>2)</sup>	3000	500	39	6.2	6

1) Modules perfectly matched to 24 V OSRAM OPTOTRONIC® electronic control gear. | For current photometric data and important safety, installation and application information go to [www.osram.com/led-modules](http://www.osram.com/led-modules). | All the technical parameters apply to the entire module. In view of the complex manufacturing process for light emitting diodes, the typical values given above for the technical LED parameters are merely statistical values that do not necessarily correspond to the actual technical parameters of an individual product; individual products may vary from the typical values.

2) Depending on color temperature. Specified maximum value.

3) The power supply must be short-circuit-proof.

**Product characteristics**

- Flexible chain consisting of six LED modules each with 4 LEDs (2x 2700 K, 2x 6500 K)
- With protective coating (IPX5) for outdoor and high-humidity applications
- Electrically insulated back
- Simple fixing with M3 screws

**Product benefits**

- Dynamic white light from 2700 K to 6500 K
- Flexible programmable lighting moods in connection with light management systems
- Extremely wide-angle optics for uniform backlighting of large surfaces
- Low maintenance costs thanks to a lifetime of up to 40,000 hours

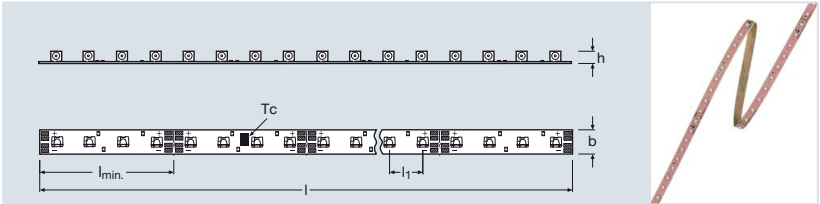
**Applications**








- Daylight simulation
- Spa
- Shop: targeted product presentation thanks to variable color temperature
- Offices
- Museums, art galleries: UV and IR-free light preserves exhibits

**Accessories**

- Heat sink DC24HS

LINEARlight Flex® SIDELED®



Product reference	Product number	COLOR		V	W			
LM11A-W3-847 <sup>1)</sup>	4008321 <b>187161</b>	White	300	10	30	120		
LM11A-W3-854 <sup>1)</sup>	4008321 <b>187185</b>	White	300	10	30	120		
LM11A-W3-865 <sup>1)</sup>	4008321 <b>187208</b>	White	300	10	30	120		
Product reference	K	lm						
LM11A-W3-847 <sup>1)</sup>	4700	1000	4200	56	14	10.4	4.5	8
LM11A-W3-854 <sup>1)</sup>	5400	1000	4200	56	14	10.4	4.5	8
LM11A-W3-865 <sup>1)</sup>	6500	1000	4200	56	14	10.4	4.5	8

<sup>1)</sup> Modules perfectly matched to 10 V OSRAM OPTOTRONIC® electronic control gear. <sup>1)</sup> For current photometric data and important safety, installation and application information go to [www.osram.com/led-modules](http://www.osram.com/led-modules). All the technical parameters apply to the entire module. In view of the complex manufacturing process for light emitting diodes, the typical values given above for the technical LED parameters are merely statistical values that do not necessarily correspond to the actual technical parameters of an individual product; individual products may vary from the typical values.

Product characteristics

- Flexible cuttable LED strip
- Light emission parallel to the mounting surface
- LEDs with short pitch

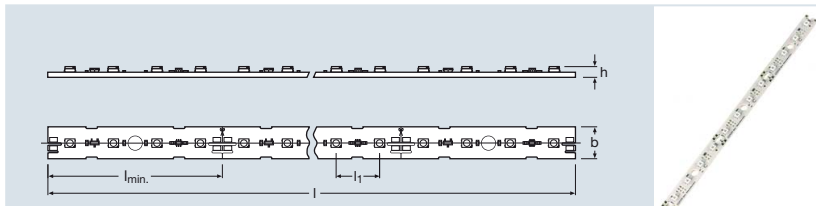
Applications

- Path lighting, contour accent lighting
- Signage (corona effect)

Accessories

- CONNECTsystem LM for simple installation without soldering

## LINEARlight 10 V



Product reference	Product number	COLOR		V	W		$\lambda$
LM01A-W3F-827 <sup>1)</sup>	4008321 <b>372390</b>	White	32	10	4	120	—
LM01A-W3F-830 <sup>1)</sup>	4008321 <b>342997</b>	White	32	10	4	120	—
LM01A-W3F-840 <sup>1)</sup>	4008321 <b>343413</b>	White	32	10	4	120	—
LM01A-W3F-854 <sup>1)</sup>	4008321 <b>387950</b>	White	32	10	4	120	—
LM01A-B2 <sup>1)</sup>	4008321 <b>313652</b>	Blue	32	10	4	120	470
LM01A-A1 <sup>1)</sup>	4050300 <b>887128</b>	Red	32	10	4	120	617
LM01A-O1 <sup>1)</sup>	4050300 <b>888040</b>	Orange	32	10	4	120	606
LM01A-T2 <sup>1)</sup>	4050300 <b>887845</b>	Green	32	10	4	120	525
LM01A-Y1 <sup>1)</sup>	4008321 <b>015969</b>	Yellow	32	10	4	120	587

Product reference	K	lm	$\frac{l}{[mm]}$	$\frac{l_{min}}{[mm]}$	$\frac{l_1}{[mm]}$	$\frac{b}{[mm]}$	$\frac{h}{[mm]}$	
LM01A-W3F-827 <sup>1)</sup>	2700	88	448	56	14	10	4	10
LM01A-W3F-830 <sup>1)</sup>	3000	111	448	56	14	10	4	10
LM01A-W3F-840 <sup>1)</sup>	4000	111	448	56	14	10	4	10
LM01A-W3F-854 <sup>1)</sup>	5400	111	448	56	14	10	4	10
LM01A-B2 <sup>1)</sup>	—	34	448	56	14	10	4	10
LM01A-A1 <sup>1)</sup>	—	78	448	56	14	10	4	10
LM01A-O1 <sup>1)</sup>	—	98	448	56	14	10	4	10
LM01A-T2 <sup>1)</sup>	—	57	448	56	14	10	4	10
LM01A-Y1 <sup>1)</sup>	—	69	448	56	14	10	4	10

<sup>1)</sup> Modules perfectly matched to 10 V OSRAM OPTOTRONIC® electronic control gear. For current photometric data and important safety, installation and application information go to [www.osram.com/led-modules](http://www.osram.com/led-modules). All the technical parameters apply to the entire module. In view of the complex manufacturing process for light emitting diodes, the typical values given above for the technical LED parameters are merely statistical values that do not necessarily correspond to the actual technical parameters of an individual product; individual products may vary from the typical values.

### Product characteristics

- Splittable LED board (smallest unit: 4 LEDs with a length of 56 mm)
- Mounting holes for secure fixing
- Dimmable

### Product benefits

- Very low thermal output despite low profile
- Serial connection of up to 3 modules
- Low maintenance costs thanks to a lifetime of up to 50,000 hours

### Applications

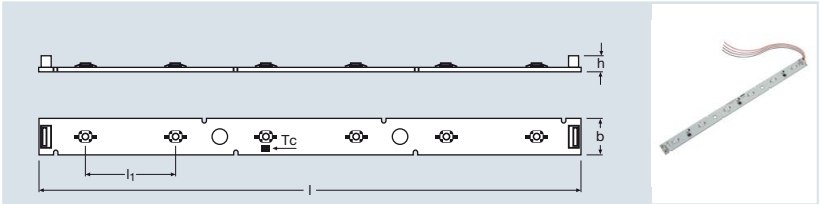
- Edge coupling
- Path lighting, contour accent lighting
- Orientation and safety lighting

### Accessories

- CONNECTsystem LM
- LINEARlight Track LT-H
- OP4x1 optics



# LINEARlight-DRAGON® PCB



Product reference	Product number	COLOR		V	W	
LD06B-W4F-830 <sup>1)</sup>	4008321 <b>395757</b>	White	6	24	12	170
LD06B-W4F-840 <sup>1)</sup>	4008321 <b>395870</b>	White	6	24	12	170
LD06B-W4F-854 <sup>1)</sup>	4008321 <b>395993</b>	White	6	24	12	170

Product reference	K	lm	 l [mm]	 l1 [mm]	 b [mm]	 h [mm]	
LD06B-W4F-830 <sup>1)</sup>	3000	630	300	50	20	8.5	6
LD06B-W4F-840 <sup>1)</sup>	4000	630	300	50	20	8.5	6
LD06B-W4F-854 <sup>1)</sup>	5400	630	300	50	20	8.5	6

<sup>1)</sup> Modules perfectly matched to 24V OSRAM OPTOTRONIC® electronic control gear. l For current photometric data and important safety, installation and application information go to [www.osram.com/led-modules](http://www.osram.com/led-modules). l All the technical parameters apply to the entire module. In view of the complex manufacturing process for light emitting diodes, the typical values given above for the technical LED parameters are merely statistical values that do not necessarily correspond to the actual technical parameters of an individual product; individual products may vary from the typical values.

### Product characteristics

- Metal core board with six high-power LEDs
- Mounting holes for secure fixing
- Dimmable

### Product benefits

- With mid-feed up to six modules can be operated on one control gear unit
- Low maintenance costs thanks to a lifetime of up to 70,000 hours

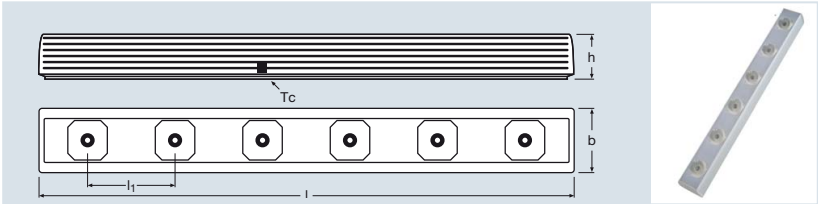
### Applications








- Cove lighting
- Shelf lighting, cupboard lighting

### Accessories

- CONNECTsystem LD
- OP1x1 optics

LINEARlight-DRAGON® complete module



Product reference	Product number	COLOR		V	W		
LD06B-W4F-830-L30 <sup>1)</sup>	4008321 <b>394491</b>	White	6	24	12	30	
LD06B-W4F-840-L30 <sup>1)</sup>	4008321 <b>394613</b>	White	6	24	12	30	
LD06B-W4F-854-L30 <sup>1)</sup>	4008321 <b>395290</b>	White	6	24	12	30	
Product reference	K	cd					
LD06B-W4F-830-L30 <sup>1)</sup>	3000	1350	307	50	36	25.8	6
LD06B-W4F-840-L30 <sup>1)</sup>	4000	1350	307	50	36	25.8	6
LD06B-W4F-854-L30 <sup>1)</sup>	5400	1350	307	50	36	25.8	6

<sup>1)</sup> Modules perfectly matched to 24V OSRAM OPTOTRONIC® electronic control gear. | For current photometric data and important safety, installation and application information go to [www.osram.com/led-modules](http://www.osram.com/led-modules). | All the technical parameters apply to the entire module. In view of the complex manufacturing process for light emitting diodes, the typical values given above for the technical LED parameters are merely statistical values that do not necessarily correspond to the actual technical parameters of an individual product; individual products may vary from the typical values.

Product characteristics

- High-quality batten fixture with 6 high-power LEDs
- Aluminum housing for adequate heat removal
- Mounting with M3 screws or brackets
- Dimmable

Product benefits

- With mid-feed up to six modules can be operated on one control gear unit
- Ready for connection with premounted feeder as a connection to the control gear
- Low maintenance costs thanks to a lifetime of up to 70,000 hours

Applications

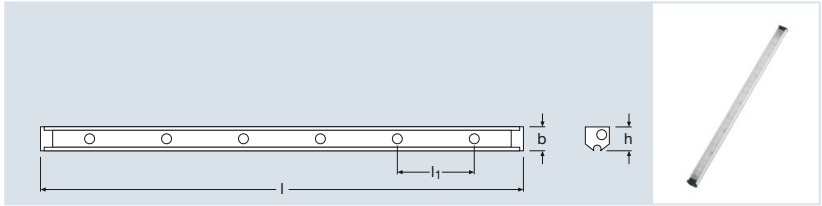
- Cove lighting
- Shelf lighting, cupboard lighting



Accessories






- CONNECTsystem LD
- Mounting brackets LD-MB



# LINEARlight-DRAGON® Slim



Product reference	Product number	COLOR		V	W	
LD06S-W4F-830 <sup>1)</sup>	4008321 <b>953308</b>	White	6	24	6.8	120
LD06S-W4F-840 <sup>1)</sup>	4008321 <b>953322</b>	White	6	24	6.8	120

Product reference	K	lm					
LD06S-W4F-830 <sup>1)</sup>	3000	240	305	50	16	16.2	6
LD06S-W4F-840 <sup>1)</sup>	4000	240	305	50	16	16.2	6

<sup>1)</sup> Modules perfectly matched to 24V OSRAM OPTOTRONIC® electronic control gear. | For current photometric data and important safety, installation and application information go to [www.osram.com/led-modules](http://www.osram.com/led-modules). | All the technical parameters apply to the entire module. In view of the complex manufacturing process for light emitting diodes, the typical values given above for the technical LED parameters are merely statistical values that do not necessarily correspond to the actual technical parameters of an individual product; individual products may vary from the typical values.

### Product characteristics

- Slim attractive batten fixture with six LEDs
- Aluminum housing for adequate heat removal
- Diffused cover
- Adjustable
- Dimmable

### Product benefits

- Serial operation of up to 5 modules on one control gear unit (can be connected in series with supplied adapter and connecting cable)
- Robust: coated board to protect against condensate
- Low maintenance costs thanks to a lifetime of up to 50,000 hours

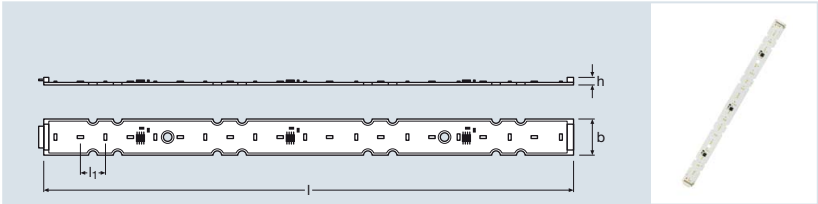
### Applications



- Shelf/furniture lighting
- Display lighting
- Small coving






### Accessories

- Mounting and connection systems included

LINEARlight POWER (PCB)



Product reference	Product number	COLOR		V	W	
LR21P-W2F-830 <sup>1)</sup>	4008321 <b>971470</b>	White	21	24	8	120
LR21P-W2F-840 <sup>1)</sup>	4008321 <b>971494</b>	White	21	24	8	120

Product reference	K	lm					
LR21P-W2F-830 <sup>1)</sup>	3000	630	280	13	20	3	8
LR21P-W2F-840 <sup>1)</sup>	4000	630	280	13	20	3	8

<sup>1)</sup> Modules perfectly matched to 24V OSRAM OPTOTRONIC® electronic control gear. | For current photometric data and important safety, installation and application information go to [www.osram.com/led-modules](http://www.osram.com/led-modules). | All the technical parameters apply to the entire module. In view of the complex manufacturing process for light emitting diodes, the typical values given above for the technical LED parameters are merely statistical values that do not necessarily correspond to the actual technical parameters of an individual product; individual products may vary from the typical values.

Product characteristics

- Metal core board equipped with 21 LEDs
- Luminous flux comparable with that of T5 HE fluorescent lamps
- Luminous flux of up to 2250 lm/m
- Integrated SMD plug connector (male/female) on both sides of the PCB
- Color rendering R<sub>a</sub> typ. 85
- Mounting holes for simple fixing
- Dimmable

Product benefits

- Modules can be joined together to make seamless strip lighting, without any further accessories
- Up to six modules connected in series on one control gear unit
- Module efficiency up to 88 lm/W
- Compatible with LINEARlight LR14A, LR14E
- Low maintenance costs thanks to a lifetime of up to 50,000 hours

Applications

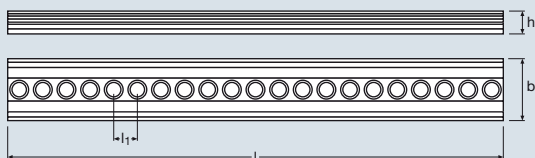
- Coving
- Shelf lighting, cupboard lighting

Accessories

- Can be expanded with optional accessories to create an individual complete module
- CONNECTsystem LR
- LINEARlight Track LT
- OPLR optics
- OTR optics tray



## LINEARlight POWER (complete module)



Product reference	Product number	COLOR		V	W	
LR21P-W2F-830-L30 <sup>1)</sup>	4008321971630	White	21	24	8	30
LR21P-W2F-840-L30 <sup>1)</sup>	4008321971654	White	21	24	8	30
LR21P-W2F-830-L80 <sup>1)</sup>	4008321978707	White	21	24	8	80
LR21P-W2F-840-L80 <sup>1)</sup>	4008321978721	White	21	24	8	80

Product reference	K	lm					
LR21P-W2F-830-L30 <sup>1)</sup>	3000	574	280	13	36	13	8
LR21P-W2F-840-L30 <sup>1)</sup>	4000	574	280	13	36	13	8
LR21P-W2F-830-L80 <sup>1)</sup>	3000	574	280	13	36	13	8
LR21P-W2F-840-L80 <sup>1)</sup>	4000	574	280	13	36	13	8

<sup>1)</sup> Modules perfectly matched to 24V OSRAM OPTOTRONIC® electronic control gear. | For current photometric data and important safety, installation and application information go to [www.osram.com/led-modules](http://www.osram.com/led-modules). | All the technical parameters apply to the entire module. In view of the complex manufacturing process for light emitting diodes, the typical values given above for the technical LED parameters are merely statistical values that do not necessarily correspond to the actual technical parameters of an individual product; individual products may vary from the typical values.

### Product characteristics

- High-quality designer batten fixture equipped with 21 LEDs
- Aluminum housing for adequate heat removal
- Luminous flux comparable with that of T5 HE fluorescent lamps
- Luminous flux of up to 2050 lm/m
- Integrated optics
- Simple mounting with M3 screws or brackets
- Color rendering R<sub>a</sub> typ. 85
- Dimmable

### Product benefits

- Modules can be joined together to make seamless strip lighting, without any further accessories
- Up to six modules connected in series on one control gear unit
- Overall module efficiency up to 76 lm/W
- Compatible with LINEARlight LR14A, LR14E
- Low maintenance costs thanks to a lifetime of up to 50,000 hours

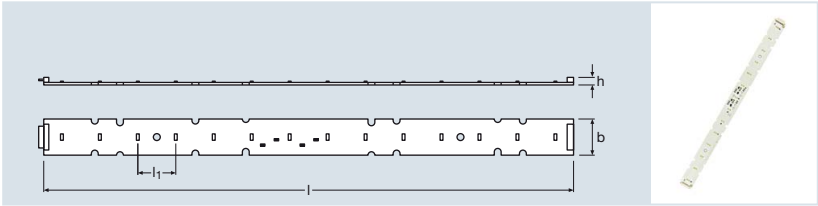
### Applications








- Cove lighting
- Shelf lighting, cupboard lighting

### Accessories

- CONNECTsystem LR
- Mounting brackets LD-MB

LINEARlight ADVANCED (PCB)



Product reference	Product number	COLOR		V	W		
LR14A-W2F-830 <sup>1)</sup>	4008321978400	White	14	24	4.7	120	
LR14A-W2F-840 <sup>1)</sup>	4008321971531	White	14	24	4.7	120	
Product reference	K	Im					
LR14A-W2F-830 <sup>1)</sup>	3000	400	280	20	20	3	8
LR14A-W2F-840 <sup>1)</sup>	4000	400	280	20	20	3	8

<sup>1)</sup> Modules perfectly matched to 24 V OSRAM OPTOTRONIC® electronic control gear. | For current photometric data and important safety, installation and application information go to [www.osram.com/led-modules](http://www.osram.com/led-modules). | All the technical parameters apply to the entire module. In view of the complex manufacturing process for light emitting diodes, the typical values given above for the technical LED parameters are merely statistical values that do not necessarily correspond to the actual technical parameters of an individual product; individual products may vary from the typical values.

Product characteristics

- Metal core board equipped with 14 LEDs
- Luminous flux comparable with that of T5 fluorescent lamps (8 W, 13 W)
- Luminous flux 1400 lm/m
- Integrated SMD plug connector (male/female) on both sides of the PCB
- Color rendering R<sub>a</sub> typ. 85
- Mounting holes for simple fixing
- Dimmable

Product benefits

- Modules can be joined together to make seamless strip lighting, without any further accessories
- Up to ten modules connected in series on one control gear unit
- Module efficiency up to 88 lm/W
- Compatible with LINEARlight LR21P, LR14E
- Low maintenance costs thanks to a lifetime of up to 50,000 hours

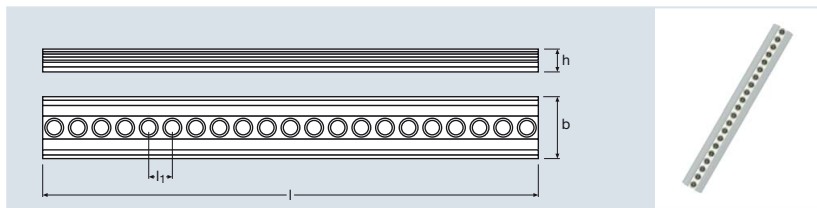
Applications



- Coving
- Shelf lighting, cupboard lighting






Accessories

- Can be expanded with optional accessories to create an individual complete module
- CONNECTsystem LR
- LINEARlight Track LT
- OPLR optics
- OTR optics tray

## LINEARlight ADVANCED (complete module)



Product reference	Product number	COLOR		V	W	
LR14A-W2F-830-L30 <sup>1)</sup>	4008321971678	White	14	24	4.7	30
LR14A-W2F-840-L30 <sup>1)</sup>	4008321971692	White	14	24	4.7	30
LR14A-W2F-830-L80 <sup>1)</sup>	4008321978424	White	14	24	4.7	80
LR14A-W2F-840-L80 <sup>1)</sup>	4008321978448	White	14	24	4.7	80

Product reference	K	lm					
LR14A-W2F-830-L30 <sup>1)</sup>	3000	350	280	20	36	13	8
LR14A-W2F-840-L30 <sup>1)</sup>	4000	350	280	20	36	13	8
LR14A-W2F-830-L80 <sup>1)</sup>	3000	350	280	20	36	13	8
LR14A-W2F-840-L80 <sup>1)</sup>	4000	350	280	20	36	13	8

<sup>1)</sup> Modules perfectly matched to 24V OSRAM OPTOTRONIC® electronic control gear. For current photometric data and important safety, installation and application information go to [www.osram.com/led-modules](http://www.osram.com/led-modules). All the technical parameters apply to the entire module. In view of the complex manufacturing process for light emitting diodes, the typical values given above for the technical LED parameters are merely statistical values that do not necessarily correspond to the actual technical parameters of an individual product; individual products may vary from the typical values.

### Product characteristics

- High-quality designer batten fixture equipped with 14 LEDs
- Aluminum housing for adequate heat removal
- Luminous flux comparable with that of T5 fluorescent lamps (8 W, 13 W)
- Luminous flux of up to 1250 lm/m
- Integrated optics
- Simple mounting with M3 screws or brackets
- Color rendering  $R_a$  typ. 85
- Dimmable

### Product benefits

- Modules can be joined together to make seamless strip lighting, without any further accessories
- Up to six modules connected in series on one control gear unit
- Overall module efficiency up to 76 lm/W
- Compatible with LINEARlight LR21P, LR14E
- Low maintenance costs thanks to a lifetime of up to 50,000 hours

### Applications

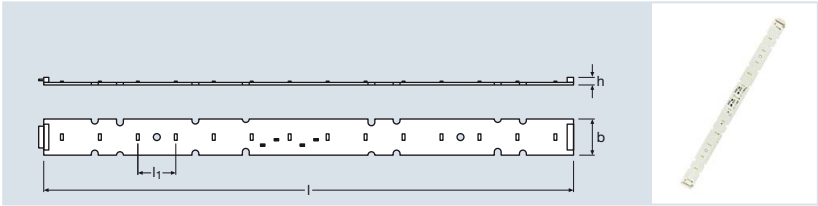
- Cove lighting
- Shelf lighting, cupboard lighting








### Accessories

- CONNECTsystem LR
- Mounting brackets LD-MB



LINEARlight ECO (PCB)



Product reference	Product number	COLOR		V	W		
LR14E-W2F-830 <sup>1)</sup>	4008321971555	White	14	24	2.3	120	
LR14E-W2F-840 <sup>1)</sup>	4008321971579	White	14	24	2.3	120	
Product reference	K	lm					
LR14E-W2F-830 <sup>1)</sup>	3000	200	280	20	20	3	8
LR14E-W2F-840 <sup>1)</sup>	4000	200	280	20	20	3	8

<sup>1)</sup> Modules perfectly matched to 24 V OSRAM OPTOTRONIC® electronic control gear. | For current photometric data and important safety, installation and application information go to [www.osram.com/led-modules](http://www.osram.com/led-modules). | All the technical parameters apply to the entire module. In view of the complex manufacturing process for light emitting diodes, the typical values given above for the technical LED parameters are merely statistical values that do not necessarily correspond to the actual technical parameters of an individual product; individual products may vary from the typical values.

Product characteristics

- Metal core board equipped with 14 LEDs
- Luminous flux 700 lm/m
- Integrated SMD-4 plug connector (male/female) on both sides of the PCB
- Color rendering R<sub>a</sub> typ. 85
- Mounting holes for simple fixing
- Dimmable

Product benefits

- Modules can be joined together in series to make seamless strip lighting, without any further accessories
- Module efficiency up to 96 lm/W
- Compatible with LINEARlight LR21P, LR14A
- Low maintenance costs thanks to a lifetime of up to 50,000 hours

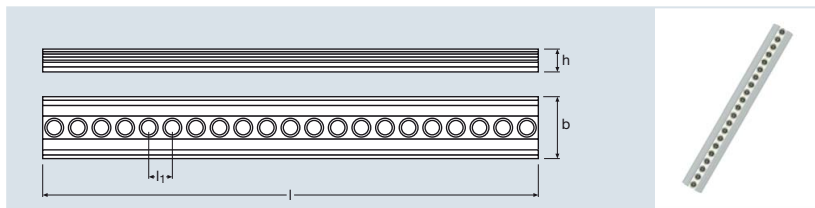
Applications

- Shelf lighting, cupboard lighting
- Background lighting

Accessories

- Can be expanded with optional accessories to create an individual complete module
- CONNECTSystem LR
- LINEARlight Track LT
- OPLR optics
- OTR optics tray

## LINEARlight ECO (complete module)



Product reference	Product number	COLOR		V	W	
LR14E-W2F-830-L30 <sup>1)</sup>	4008321971715	White	14	24	2.3	30
LR14E-W2F-840-L30 <sup>1)</sup>	4008321971739	White	14	24	2.3	30
LR14E-W2F-830-L80 <sup>1)</sup>	4008321978585	White	14	24	2.3	80
LR14E-W2F-840-L80 <sup>1)</sup>	4008321978608	White	14	24	2.3	80

Product reference	K	lm					
LR14E-W2F-830-L30 <sup>1)</sup>	3000	170	280	20	36	13	8
LR14E-W2F-840-L30 <sup>1)</sup>	4000	170	280	20	36	13	8
LR14E-W2F-830-L80 <sup>1)</sup>	3000	170	280	20	36	13	8
LR14E-W2F-840-L80 <sup>1)</sup>	4000	170	280	20	36	13	8

<sup>1)</sup> Modules perfectly matched to 24V OSRAM OPTOTRONIC® electronic control gear. | For current photometric data and important safety, installation and application information go to [www.osram.com/led-modules](http://www.osram.com/led-modules). | All the technical parameters apply to the entire module. In view of the complex manufacturing process for light emitting diodes, the typical values given above for the technical LED parameters are merely statistical values that do not necessarily correspond to the actual technical parameters of an individual product; individual products may vary from the typical values.

### Product characteristics

- High-quality designer batten fixture equipped with 14 LEDs
- Aluminum housing for adequate heat removal
- Luminous flux of up to 610 lm/m
- Integrated optics
- Simple mounting with M3 screws or brackets
- Color rendering R<sub>a</sub> typ. 85
- Dimmable

### Product benefits

- Modules can be joined together in series to make seamless strip lighting, without any further accessories
- Overall module efficiency up to 87 lm/W
- Compatible with LINEARlight LR21P, LR14A
- Low maintenance costs thanks to a lifetime of up to 50,000 hours

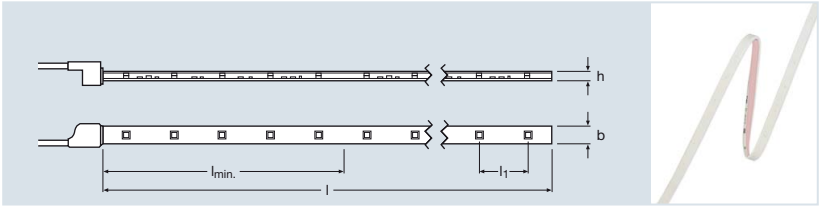
### Applications



- Shelf lighting, cupboard lighting
- Background lighting


### Accessories

- CONNECTsystem LR
- Mounting brackets LD-MB

# LINEARlight Colormix Flex Protect



Product reference	Product number	COLOR		V	W		$\lambda$
LF05CA-RGB3-P <sup>1)</sup>	4008321 <b>977205</b>	RGB	200	24	72	120	625/525/467
LF05CE-RGB1-P <sup>1)</sup>	4008321 <b>977182</b>	RGB	200	24	39	120	625/525/467

Product reference	K	lm	$\frac{l}{[mm]}$	$\frac{l_{min.}}{[mm]}$	$\frac{h}{[mm]}$	$\frac{b}{[mm]}$	$\frac{h}{[mm]}$	
LF05CA-RGB3-P <sup>1)</sup>	5500	1740	4000	100	20	11	4.5	8
LF05CE-RGB1-P <sup>1)</sup>	5500	1075	6000	150	30	11	4.5	8

<sup>1)</sup> Modules perfectly matched to 24 V OSRAM OPTOTRONIC® electronic control gear. <sup>1)</sup> For current photometric data and important safety, installation and application information go to [www.osram.com/led-modules](http://www.osram.com/led-modules). <sup>1)</sup> All the technical parameters apply to the entire module. In view of the complex manufacturing process for light emitting diodes, the typical values given above for the technical LED parameters are merely statistical values that do not necessarily correspond to the actual technical parameters of an individual product; individual products may vary from the typical values.

## Product characteristics

- IP66 protected flexible and cuttable LED strip with inline multichip RGB LEDs
- With pre-assembled feeder for simple connection

## Product benefits

- High-performance silicon for extremely long life and flexibility
- Stylish design
- Highly UV-resistant
- Salt mist proof
- Uniform color changing

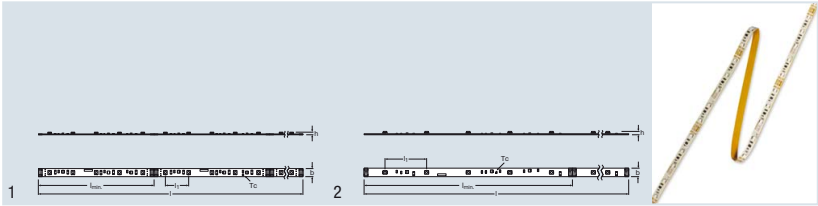
## Applications












- Facade accent lighting
- Effect lighting in architecture
- Edge coupling
- Path lighting

## Accessories

- IP67 protected CONNECTsystem LF-PROTECT for simple installation without soldering
- LINEARlight Track LT

# LINEARlight Colormix Flex



Product reference	Product number	COLOR		V	W			
LF05CA-RGB3 <sup>1)</sup>	4008321 <b>592644</b>	RGB	200	24	72	120	625/525/467	
LF05CE-RGB1 <sup>1)</sup>	4008321 <b>593375</b>	RGB	200	24	39	120	625/525/467	
Product reference								
LF05CA-RGB3 <sup>1)</sup>	1700	4000	100	20	8	2.2	8	1
LF05CE-RGB1 <sup>1)</sup>	1075	6000	150	30	8	2.2	8	2

1) Modules perfectly matched to 24V OSRAM OPTOTRONIC® electronic control gear. For current photometric data and important safety, installation and application information go to [www.osram.com/led-modules](http://www.osram.com/led-modules). All the technical parameters apply to the entire module. In view of the complex manufacturing process for light emitting diodes, the typical values given above for the technical LED parameters are merely statistical values that do not necessarily correspond to the actual technical parameters of an individual product; individual products may vary from the typical values.

### Product characteristics

- Flexible and splittable LED strip with inline multichip RGB LEDs

### Product benefits

- Uniform color changing with 3 chips in one package
- Toolless connection with the optional CONNECTsystem

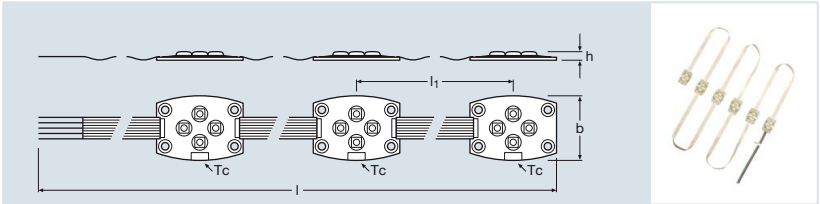
### Applications













- Effect lighting in architecture
- For injecting light into transparent and dispersing materials
- Dynamic effects in public zones

### Accessories

- CONNECTsystem LF for simple installation without soldering
- LINEARlight Track LT

**DRAGONchain® Colormix RGBW**



Product reference	Product number						
DC24B-RGBW <sup>1) 3)</sup>	4008321 <b>709219</b>	RGB, White	24	24	27	135	
Product reference							
DC24B-RGBW <sup>1) 3)</sup>	625/525/467	1200 <sup>2)</sup>	3000	500	39	6.2	6

1) Modules perfectly matched to 24 V OSRAM OPTOTRONIC® electronic control gear. | For current photometric data and important safety, installation and application information go to [www.osram.com/led-modules](http://www.osram.com/led-modules). | All the technical parameters apply to the entire module. In view of the complex manufacturing process for light emitting diodes, the typical values given above for the technical LED parameters are merely statistical values that do not necessarily correspond to the actual technical parameters of an individual product; individual products may vary from the typical values.

2) Depending on color temperature. Specified maximum value.

3) The power supply used must be short-circuit-proof.

**Product characteristics**

- Flexible chain consisting of six LED modules each with four LEDs (red, green, blue, cold white)
- With protective coating (IPX5) for outdoor and high-humidity applications
- Electrically insulated back
- Simple fixing with M3 screws

**Product benefits**

- Dynamic color backlighting
- Broad color mixing palette, including pastel shades (in connection with light management systems)
- Extremely wide-angle optics for uniform backlighting of large surfaces
- Low maintenance costs thanks to a lifetime of up to 50,000 hours

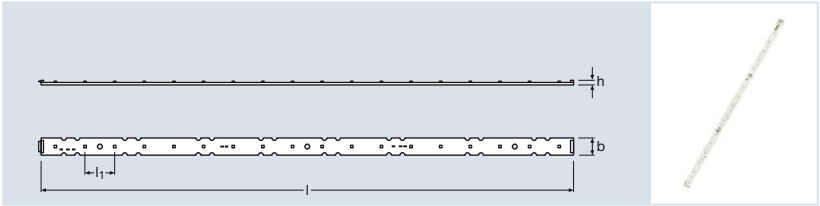
**Applications**

- Dynamic mood lighting
- Spa
- Shops, restaurants
- Trade fair lighting
- Alternative to colored fluorescent lamps

**Accessories**

- Heat sink DC24HS

# LINEARlight Colormix (PCB)



Product reference	Product number	COLOR		V	W
LR18CP <sup>1)</sup>	4008321971593	RGB	18	24	28
LR28CA <sup>1)</sup>	4008321978547	RGB	28	24	15
LR18CE <sup>1)</sup>	4008321971616	RGB	18	24	3

Product reference		lm					
LR18CP <sup>1)</sup>	120	670	560	31	20	3.5	8
LR28CA <sup>1)</sup>	120	360	560	20	20	3.5	8
LR18CE <sup>1)</sup>	120	140	560	31	20	3.5	8

1) Modules perfectly matched to 24V OSRAM OPTOTRONIC® electronic control gear. | For current photometric data and important safety, installation and application information go to [www.osram.com/led-modules](http://www.osram.com/led-modules). | All the technical parameters apply to the entire module. In view of the complex manufacturing process for light emitting diodes, the typical values given above for the technical LED parameters are merely statistical values that do not necessarily correspond to the actual technical parameters of an individual product; individual products may vary from the typical values.

### Product characteristics

- Metal core board equipped with 18 LEDs (LR18CP, LR18CE) or 28 LEDs (LR28CA)
- LR28CA, LR18CE: with multichip RGB LEDs
- LR18CP: with individual R-G-B LEDs
- Integrated SMD plug connector (male/female) on both sides of the PCB
- Mounting holes for simple fixing

### Product benefits

- Modules can be joined together in series to make seamless strip lighting, without any further accessories
- The modules are compatible with each other
- Low maintenance costs thanks to a lifetime of up to 50,000 hours

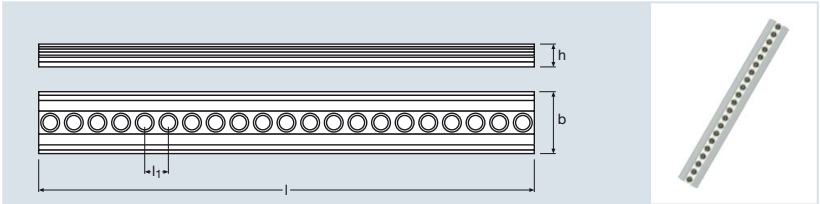
### Applications


- Restaurants
- Architainment
- Shops
- LR18CP: Mood lighting and wallwashers
- LR28CA: Effect lighting
- LR18CE: Background lighting







### Accessories

- Can be expanded with optional accessories to create an individual complete module
- CONNECTsystem LR
- LINEARlight Track LT
- OPLR optics
- OTR optics tray

# LINEARlight Colormix (complete module)



Product reference	Product number	COLOR		V	W
LR18CP-560 <sup>1)</sup>	4008321 <b>971753</b>	RGB	18	24	28
LR28CA-560 <sup>1)</sup>	4008321 <b>978561</b>	RGB	28	24	15
LR18CE-560 <sup>1)</sup>	4008321 <b>971777</b>	RGB	18	24	3

Product reference		lm	 l [mm]	 l <sub>1</sub> [mm]	 b [mm]	 h [mm]	
LR18CP-560 <sup>1)</sup>	20x50	<sup>2)</sup>	560	31	36	13	8
LR28CA-560 <sup>1)</sup>	20x50	<sup>2)</sup>	560	20	36	13	8
LR18CE-560 <sup>1)</sup>	20x50	<sup>2)</sup>	560	31	36	13	8

<sup>1)</sup> Modules perfectly matched to 24 V OSRAM OPTOTRONIC® electronic control gear. | For current photometric data and important safety, installation and application information go to [www.osram.com/led-modules](http://www.osram.com/led-modules). | All the technical parameters apply to the entire module. In view of the complex manufacturing process for light emitting diodes, the typical values given above for the technical LED parameters are merely statistical values that do not necessarily correspond to the actual technical parameters of an individual product; individual products may vary from the typical values.

<sup>2)</sup> Print data not available

### Product characteristics

- High-quality designer batten fixture
- Aluminum housing for adequate heat removal
- LR28CA, LR18CE: with multichip RGB LEDs
- LR18CP: with individual R-G-B LEDs
- Integrated SMD 4-pin plug connector (male/female) on both sides of the PCB
- Integrated optics
- Simple mounting with M3 screws or brackets

### Product benefits

- Modules can be joined together in series to make seamless strip lighting, without any further accessories
- The modules are compatible with each other
- Low maintenance costs thanks to a lifetime of up to 50,000 hours

### Applications

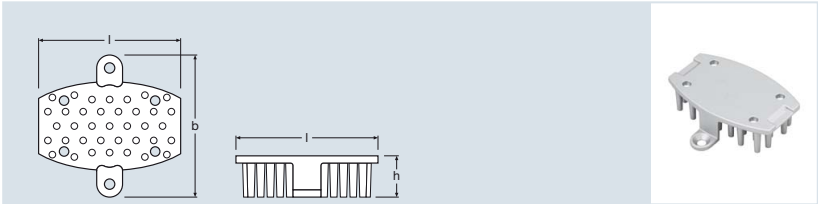
- Restaurants
- Archtainment
- Shops
- LR18CP: Mood lighting and wallwashers
- LR28CA: Effect lighting
- LR18CE: Background lighting

### Accessories

- CONNECTsystem LR
- Mounting brackets LD-MD



Heat sink for DRAGONchain DC24



Product reference	Product number	 l [mm]	 b [mm]	 h [mm]	
DC24HS <sup>1)</sup>	4008321657992	67	64	18.5	300
<sup>1)</sup> For important safety, installation and application information see <a href="http://www.osram.com/led-modules">www.osram.com/led-modules</a> .					

Product characteristics

- Fixing with screws

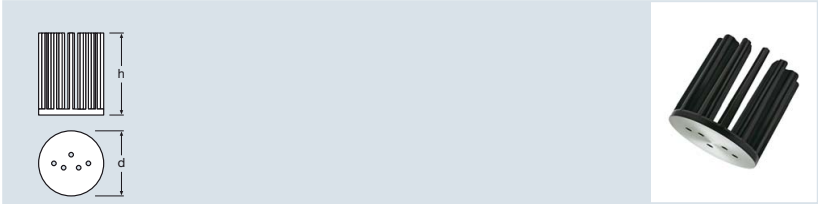
Product benefits




- Low profile

Applications

- For DRAGONchain Tunable White and DRAGONchain Colormix

Heat sink for DRAGONpuck DP35, DP51, COINlight Pro CP51



Product reference	Product number	 d [mm]	 h [mm]	
CPDPHS-51 <sup>1)</sup>	4008321975829	44.5	45	16
<sup>1)</sup> For important safety, installation and application information see <a href="http://www.osram.com/led-modules">www.osram.com/led-modules</a> .				

Product characteristics

- Fixing with M3 screws

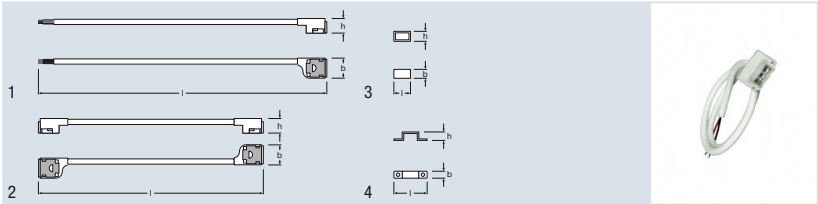
Product benefits

- Low profile

Applications

- For DRAGONpuck DP35, DP51 and COINlight Pro CP51 (8 W, 10 W)

CONNECTsystem for LINEARlight (POWER) Flex Protect



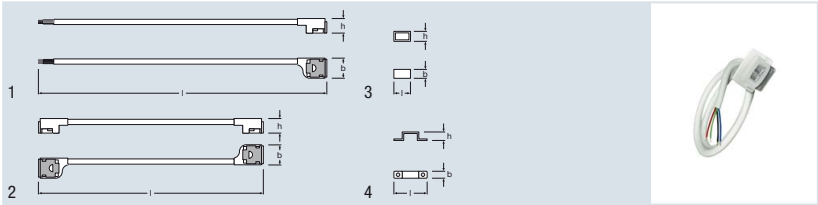
Product reference	Product number	Cable cross-section / AWG	Cable length (mm)	l (mm)	b (mm)	h (mm)		
LF-2PIN PROTECT <sup>1)</sup>	4008321977069	1.4	500	30	19.8	13.4	50	1
LF-2CONN PROTECT <sup>1)</sup>	4008321977083	1.4	120	30	19.8	13.4	50	2
LF-ENDCAP PROTECT <sup>1)</sup>	4008321977106	—	—	15	8.4	9.5	100	3
LF-CLIP FIXTURE PROTECT <sup>1)</sup>	4008321644749	—	—	27	6	5.7	500	4

<sup>1)</sup> For important safety, installation and application information see [www.osram.com/led-modules](http://www.osram.com/led-modules).

Product benefits

- IP67 protected plug system for simple fixing without tools and without soldering
- Short installation time

CONNECTsystem for LINEARlight Colormix Flex Protect



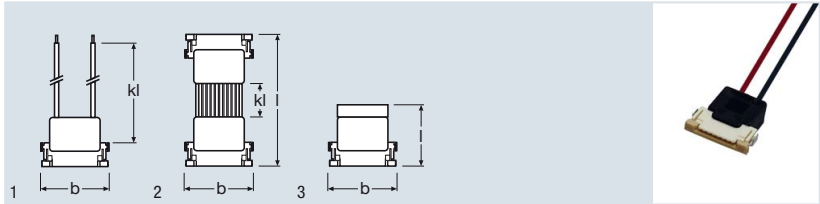
Product reference	Product number	Cable cross-section / AWG	Cable length (mm)	l (mm)	b (mm)	h (mm)		
LF-4PIN PROTECT <sup>1)</sup>	4008321977076	1.4	500	30	19.8	13.4	50	1
LF-4CONN PROTECT <sup>1)</sup>	4008321977090	1.4	120	30	19.8	13.4	50	2
LF-ENDCAP PROTECT <sup>1)</sup>	4008321977106	—	—	15	8.4	9.5	100	3
LF-CLIP FIXTURE PROTECT <sup>1)</sup>	4008321644749	—	—	27	6	5.7	500	4

<sup>1)</sup> For important safety, installation and application information see [www.osram.com/led-modules](http://www.osram.com/led-modules).

Product benefits

- IP67 protected plug system for simple fixing without tools and without soldering
- Short installation time

# CONNECTsystem for LINEARlight (POWER) Flex



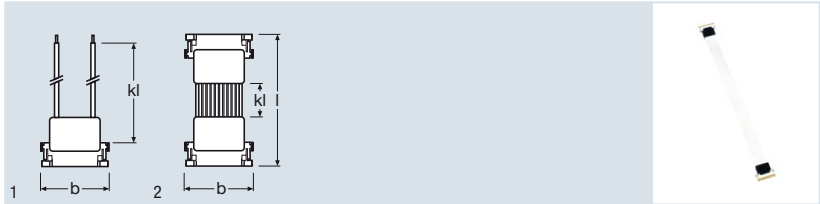
Product reference	Product number	Cable cross-section/ AWG	Cable length [mm]	l [mm]	b [mm]		
LF-2PIN FLEX <sup>1)</sup>	4008321 <b>955326</b>	0.14	500	13	14.5	100	1
LF-CONN-10 FLEX <sup>1)</sup>	4008321 <b>955333</b>	0.057	10	13	13.2	200	2
LF-CONN-150 FLEX <sup>1)</sup>	4008321 <b>955340</b>	0.057	150	13	13.2	100	2
LF-2TERM FLEX <sup>1)</sup>	4008321 <b>955357</b>	—	—	16	14.5	200	3

1) For important safety, installation and application information see [www.osram.com/led-modules](http://www.osram.com/led-modules).

## Product benefits

- Simple installation, no tools or soldering required
- Reduced installation time
- Low profile
- Extremely vibration-proof
- Permissible operating temperature perfectly matched to the module
- Can be connected to the front of the module or at the division points

# CONNECTsystem for LINEARlight Flex® SIDELED®



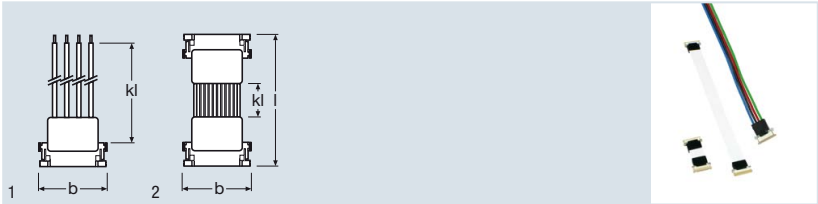
Product reference	Product number	Cable cross-section/ AWG	Cable length [mm]	l [mm]	b [mm]		
LM-2PIN FLEX <sup>1)</sup>	4008321 <b>916211</b>	0.14	500	13.1	16.3	100	1
LM-CONN-150 FLEX <sup>1)</sup>	4008321 <b>931375</b>	0.057	150	13.1	16.3	100	2
LM-CONN-10 FLEX <sup>1)</sup>	4008321 <b>916259</b>	0.057	10	13.1	16.3	200	2



1) For important safety, installation and application information see [www.osram.com/led-modules](http://www.osram.com/led-modules).

## Product benefits

- Simple installation, no tools or soldering required
- Reduced installation time
- Low profile
- Extremely vibration-proof
- Permissible operating temperature perfectly matched to the module
- Can be connected to the front of the module or at the division points

# CONNECTsystem for LINEARlight Colormix Flex



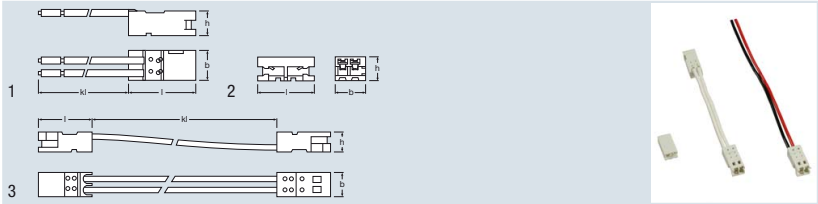
Product reference	Product number	Cable cross-section / AWG	Cable length [mm]	l [mm]	b [mm]		 No.
LF-4PIN <sup>1)</sup>	4008321514585	—	500	13	13.2	100	1
LF-CONN-10 FLEX <sup>1)</sup>	4008321955333	0.057	10	13	13.2	200	2
LF-CONN-150 FLEX <sup>1)</sup>	4008321955340	0.057	150	13	13.2	100	2



<sup>1)</sup> For important safety, installation and application information see [www.osram.com/led-modules](http://www.osram.com/led-modules).

## Product benefits

- Simple installation, no tools or soldering required
- Reduced installation time
- Low profile
- Extremely vibration-proof
- Permissible operating temperature perfectly matched to the module
- Can be connected to the front of the module or at the division points

# CONNECTsystem for LINEARlight



Product reference	Product number	Cable cross-section / AWG	Cable length [mm]	l [mm]	b [mm]	h [mm]		 No.
LM-2PIN <sup>1)</sup>	4008321908629	0.31	500	14	6.1	5.0	500	1
LM-2CONN <sup>1)</sup>	4008321908643	—	—	11	6.1	4.6	500	2
LM-2CONN-50 <sup>1)</sup>	4008321908667	0.31	48	14	6.1	5.0	500	3
LR-4PIN-500 <sup>1)</sup>	4008321971852	<sup>2)</sup>	500	<sup>2)</sup>	<sup>2)</sup>	<sup>2)</sup>	<sup>2)</sup>	<sup>2)</sup>
LR-4CONN-45 <sup>1)</sup>	4008321971890	<sup>2)</sup>	45	<sup>2)</sup>	<sup>2)</sup>	<sup>2)</sup>	12 x 5	<sup>2)</sup>
LR-4CONN-250 <sup>1)</sup>	4008321971814	<sup>2)</sup>	250	<sup>2)</sup>	<sup>2)</sup>	<sup>2)</sup>	12 x 5	<sup>2)</sup>

<sup>1)</sup> For important safety, installation and application information see [www.osram.com/led-modules](http://www.osram.com/led-modules).  
<sup>2)</sup> Print data not available

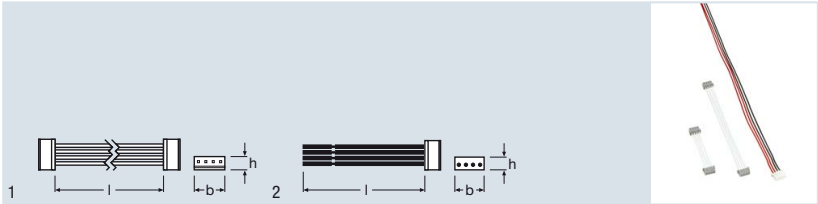
## Product benefits



- Simple fixing without tools and without soldering
- Short installation time
- Low profile
- Vibration-proof

## Applications

- LM... for LINEARlight 10 V
- LR... for LINEARlight 24 V

CONNECTsystem for LINEARlight-DRAGON®



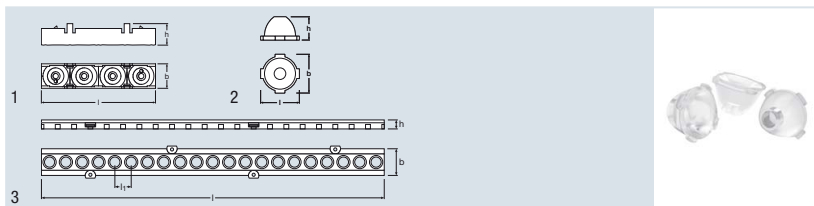
Product reference	Product number	Cable cross-section AWG	Cable length [mm]	l [mm]	b [mm]	h [mm]		 No.
LD-2CONN-100 <sup>1)</sup>	4008321 <b>182883</b>	0.13	100	5	10.0	4.3	500	1
LD-2CONN-40 <sup>1)</sup>	4008321 <b>182869</b>	0.13	40	5	10.0	4.3	500	1
LD-2PIN <sup>1)</sup>	4008321 <b>182845</b>	0.2	500	6	9.7	4.5	500	2







<sup>1)</sup> For important safety, installation and application information see [www.osram.com/led-modules](http://www.osram.com/led-modules).

Product benefits

- Simple fixing without tools and without soldering
- Short installation time
- Low profile
- Vibration-proof

## Optics for LINEARlight



Product reference	Product number						
OP4x1 <sup>1)</sup>	4008321 <b>908704</b>	20   26 <sup>2)</sup>	56	12	11	80	1
OPLR1x1-30 <sup>1)</sup>	4008321 <b>976000</b>	30	10	10	6	140	2
OPLR1x1-80 <sup>1)</sup>	4008321 <b>976024</b>	80	10	10	6	140	2
OPLR1x1-20x50 <sup>1)</sup>	4008321 <b>976048</b>	20x50	10	10	6	140	2
OTR-280-LR21P <sup>1)</sup>	4008321 <b>976062</b>	—	280	26.5	7.5	8	3
OTR-280-LR18CE/CP <sup>1)</sup>	4008321 <b>976086</b>	—	280	26.5	7.5	8	3
OTR-280-LR14A/E/LR28CA <sup>1)</sup>	4008321 <b>994448</b>	—	280	26.5	7.5	8	3

<sup>1)</sup> For current photometric data and important safety, installation and application information see [www.osram.com/led-modules](http://www.osram.com/led-modules).

<sup>2)</sup> White 26°

### Product characteristics

- OP...: Optics
- OTR: Optics tray

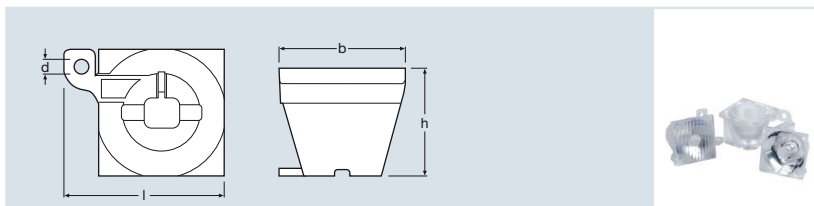
### Product benefits






- High optical efficiency

### Applications

- OP 4x1 for mounting on LINEARlight 10 V (PCB)
- OPLR for mounting on optics carrier
- OTR (LINEARlight 24 V)

## Optics for LINEARlight-DRAGON®



Product reference	Product number					
OP1x1-10 <sup>1)</sup>	4008321 <b>909893</b>	10	25	25.0	22.0	150
OP1x1-30 <sup>1)</sup>	4008321 <b>909770</b>	30	25	25.0	22.0	150
OP1x1-14x22 <sup>1)</sup>	4008321 <b>909787</b>	14 x22	25	25.0	22.0	150

<sup>1)</sup> For current photometric data and important safety, installation and application information see [www.osram.com/led-modules](http://www.osram.com/led-modules).

### Product characteristics

- Simple fixing with screw

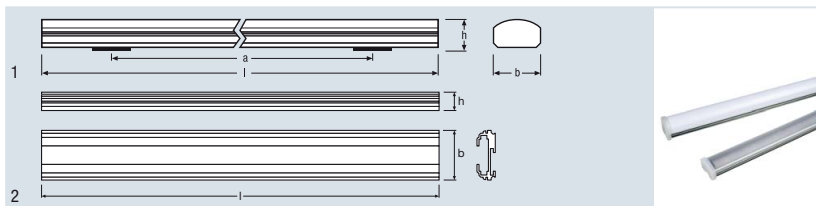
### Product benefits



- High optical efficiency

### Applications

- LINEARlight-DRAGON® (PCB)

## LINEARlight Track



Product reference	Product number	$\frac{l}{[mm]}$	$\frac{b}{[mm]}$	$\frac{h}{[mm]}$		
LT-H047-S <sup>1)</sup>	4008321256805	464 <sup>2)</sup>	35.5 <sup>2)</sup>	37.5 <sup>2)</sup>	10	1
LT-H143-S <sup>1)</sup>	4008321256829	1424 <sup>2)</sup>	35.5 <sup>2)</sup>	37.5 <sup>2)</sup>	6	1
LT-H047-P <sup>1)</sup>	4008321239563	464	35.5	26.5	10	1
LT-H143-P <sup>1)</sup>	4008321239587	1424	35.5	26.5	6	1
LT-280 <sup>1)</sup>	4008321975973	280	<sup>3)</sup>	<sup>3)</sup>	8	2
LT-560 <sup>1)</sup>	4008321975997	560	<sup>3)</sup>	<sup>3)</sup>	8	2
LT-ENDCAP <sup>1)</sup>	4008321976116	<sup>3)</sup>	<sup>3)</sup>	<sup>3)</sup>	16	<sup>3)</sup>

<sup>1)</sup> For important safety, installation and application information see [www.osram.com/led-modules](http://www.osram.com/led-modules).

<sup>2)</sup> Without end cap

<sup>3)</sup> Print data not available

### Product characteristics

- Lightweight universal aluminum track casing
- LT-H047-S, LT-H143-S: Diffused version for direct uniform illumination
- LT-H047-P, LT-H143-P: Prismatic version for indirect illumination

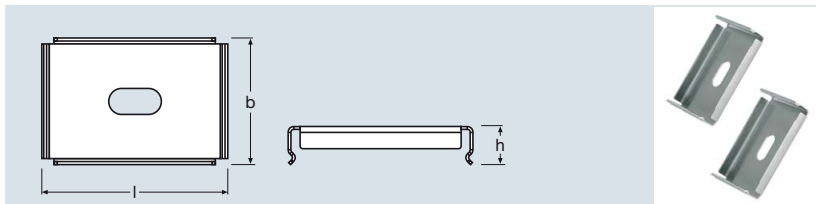
### Applications


- LT-H047..., LT-H143... for OSRAM LINEARlight LM... 10 V and LINEARlight...Flex...LF 24 V
- LT-280, LT-560, LT-ENDCAP for LINEARlight LR...24 V

### Accessories

- Optiks OPL... and optics carrier OTR... for LINEARlight LR...24 V

## Mounting bracket, LINEARlight-DRAGON®, LINEARlight LR... (24 V)



Product reference	Product number	$\frac{l}{[mm]}$	$\frac{b}{[mm]}$	$\frac{h}{[mm]}$	
LD-MB <sup>1)</sup>	4008321225672	32	22.0	6.6	12 x 5 x 5

<sup>1)</sup> For important safety, installation and application information see [www.osram.com/led-modules](http://www.osram.com/led-modules).

### Product characteristics

- Fixing with M3 screw

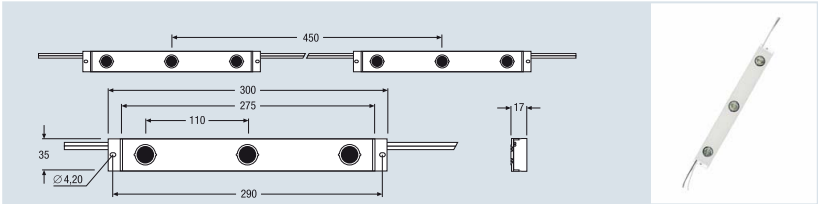
### Product benefits



- Allows linear adjustment of the batten fixture

### Applications

- LINEARlight-DRAGON® (complete module)
- LINEARlight LR...24 V (complete module)

# BoxLED® Side



Product reference	Product number	COLOR	V	W CHAIN	W MODULE
BX03SA-W4F-765 <sup>1)</sup>	4008321641427	White	12	60.0	7.5
BX03SA-W4F-840 <sup>1)</sup>	4008321693365	White	12	60.0	7.5
BX03SA-W4F-830 <sup>1)</sup>	4008321693204	White	12	60.0	7.5
Product reference		K	Im CHAIN	Im MODULE	
BX03SA-W4F-765 <sup>1)</sup>	12 x65	6500	3932	491.5	1
BX03SA-W4F-840 <sup>1)</sup>	12 x65	4000	3276	409.5	1
BX03SA-W4F-830 <sup>1)</sup>	12 x65	3000	3108	388.5	1

<sup>1)</sup> Modules perfectly matched to 12 V OSRAM OPTOTRONIC® electronic control gear. | For current photometric data and important safety, installation and application information go to [www.osram.com/signage](http://www.osram.com/signage). In view of the complex manufacturing process for light emitting diodes, the typical values given above for the technical LED parameters are merely statistical values that do not necessarily correspond to the actual technical parameters of an individual product; individual products may vary from the typical values.

## Product characteristics

- Chain of 8 linear LED modules with 3 LEDs each, connected with flexible cable
- The maximum length of a chain is 3.60 m
- The modules are compatible with the BoxLED® mounting profile
- IP66 protection for the LED modules
- Four different OPTOTRONIC® 12 V units available

## Product benefits

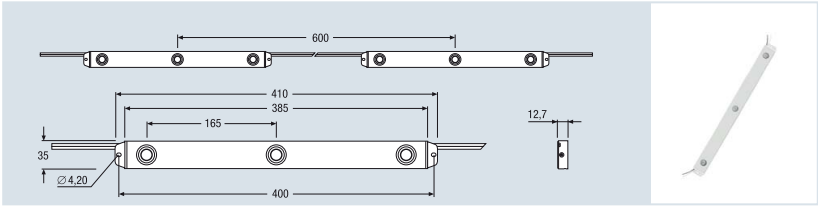
- Optimized elliptical lenses ensure uniform illumination through diffused reflection
- Several options for quick and simple mounting: bolting, adhesion, snap-in
- Special robust encapsulation for permanent outdoor use in enclosed light boxes
- Outstanding module efficiency
- Fully integrated heat sink
- Extremely long lifetime

## Applications

- Signage (advertising and lettering)
- Backlighting of single-sided and double-sided light boxes (illumination from the side)
- Wallwashing and backlighting in general and architectural lighting



BoxLED® Back



Product reference	Product number	COLOR	V	W CHAIN	W MODULE
BX03BA-W4F-765 <sup>1)</sup>	4008321641519	White	12	60.0	3.75
Product reference		K	lm CHAIN	lm MODULE	
BX03BA-W4F-765 <sup>1)</sup>	155	6500	4680	292.5	1

1) Modules perfectly matched to 12V OSRAM OPTOTRONIC® electronic control gear. | For current photometric data and important safety, installation and application information go to [www.osram.com/signage](http://www.osram.com/signage). In view of the complex manufacturing process for light emitting diodes, the typical values given above for the technical LED parameters are merely statistical values that do not necessarily correspond to the actual technical parameters of an individual product; individual products may vary from the typical values.

Product characteristics

- Chain of 16 linear LED modules with 3 LEDs each, connected with flexible cable
- The maximum length of a chain is 9.60 m
- The modules are compatible with the BoxLED® mounting profile
- IP66 protection for the LED modules
- Four different OPTOTRONIC® 12 V units available

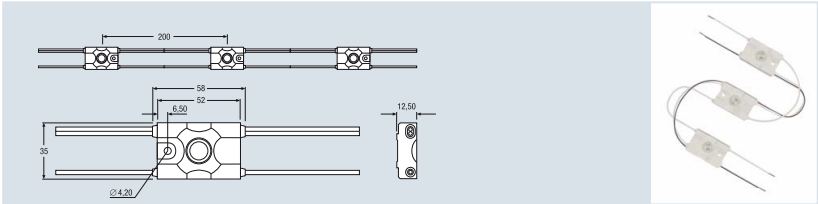
Product benefits



- Flat Ray technology ensures uniform illumination for large LED spacing
- Much better application efficiency compared with systems without lenses
- Several options for quick and simple mounting: bolting, adhesion, snap-in
- Special robust encapsulation for permanent outdoor use in enclosed light boxes
- Outstanding module efficiency
- Fully integrated heat sink
- Extremely long lifetime

Applications

- Signage (advertising and lettering)
- Backlighting of single-sided and double-sided light boxes (illumination from the back)

BackLED L



Product reference	Product number	COLOR	V	W CHAIN	W MODULE
BA01LA-W4F-765 <sup>1)</sup>	4008321641182	White	12	60.0	1.25
BA01LA-W4F-840 <sup>1)</sup>	4008321693808	White	12	60.0	1.25
BA01LA-W4F-830 <sup>1)</sup>	4008321641267	White	12	60.0	1.25
Product reference		K	Im CHAIN	Im MODULE	
BA01LA-W4F-765 <sup>1)</sup>	155	6500	4680	97.5	1
BA01LA-W4F-840 <sup>1)</sup>	155	4000	3960	82.5	1
BA01LA-W4F-830 <sup>1)</sup>	155	3000	3600	75.0	1

<sup>1)</sup> Modules perfectly matched to 12 V OSRAM OPTOTRONIC® electronic control gear. | For current photometric data and important safety, installation and application information go to [www.osram.com/signage](http://www.osram.com/signage). In view of the complex manufacturing process for light emitting diodes, the typical values given above for the technical LED parameters are merely statistical values that do not necessarily correspond to the actual technical parameters of an individual product; individual products may vary from the typical values.

Product characteristics

- Chain of 48 LED modules with 1 LED each, connected with flexible cable
- The maximum length of a chain is 9.60 m
- The modules are compatible with the BoxLED® mounting profile
- IP66 protection for the LED modules
- Four different OPTOTRONIC® 12 V units available

Product benefits

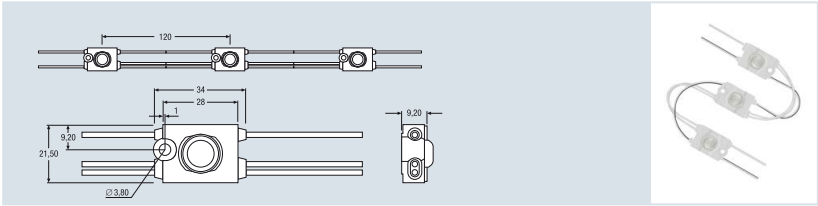
- Flat Ray technology ensures uniform illumination for large LED spacing
- Much better application efficiency compared with systems without lenses
- Several options for quick and simple mounting: bolting, adhesion, snap-in
- Special robust encapsulation for permanent outdoor use in enclosed light boxes or profile lettering
- Outstanding module efficiency
- Fully integrated heat sink
- Extremely long lifetime




Applications

- Signage (advertising and lettering)
- Backlighting of single-sided and double-sided light boxes (illumination from the back)
- Backlighting of large and/or deep profile lettering
- Indirect lighting and backlighting in general and architectural lighting



# BackLED M



Product reference	Product number	COLOR	V	W CHAIN	W MODULE	
BA01MA-W4F-765 <sup>1)</sup>	4008321640901	White	12	30.0	0.5	155
BA01MA-W4F-830 <sup>1)</sup>	4008321641021	White	12	30.0	0.5	155
BA01MA-R2 <sup>1)</sup>	4008321641144	Red	12	30.0	0.5	155
BA01MA-B2 <sup>1)</sup>	4008321641168	Blue	12	30.0	0.5	155
Product reference			K	Im CHAIN	Im MODULE	
BA01MA-W4F-765 <sup>1)</sup>		–	6500	1866	31.1	1
BA01MA-W4F-830 <sup>1)</sup>		–	3000	1386	23.1	1
BA01MA-R2 <sup>1)</sup>		623	–	972	16.2	1
BA01MA-B2 <sup>1)</sup>		468	–	414	6.9	1

<sup>1)</sup> Modules perfectly matched to 12 V OSRAM OPTOTRONIC® electronic control gear. | For current photometric data and important safety, installation and application information go to [www.osram.com/signage](http://www.osram.com/signage). In view of the complex manufacturing process for light emitting diodes, the typical values given above for the technical LED parameters are merely statistical values that do not necessarily correspond to the actual technical parameters of an individual product; individual products may vary from the typical values.

## Product characteristics

- Chain of 60 LED modules with 1 LED each, connected with flexible cable
- The maximum length of a chain is 7.20 m
- IP66 protection for the LED modules
- Four different OPTOTRONIC® 12 V units available

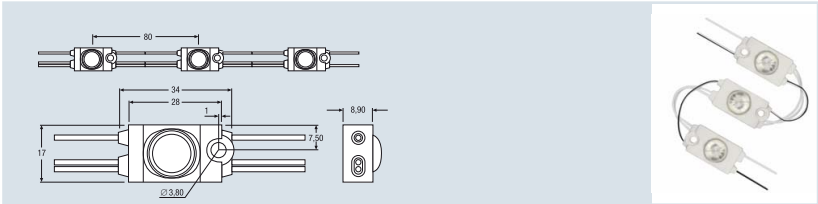
## Product benefits




- Flat Ray technology ensures uniform illumination for large LED spacing
- Much better application efficiency compared with systems without lenses
- Quick and easy mounting with screws or adhesive
- Special robust encapsulation for permanent outdoor use in enclosed profile lettering
- Outstanding module efficiency
- Fully integrated heat sink
- Extremely long lifetime

## Applications

- Signage (advertising and lettering)
- Backlighting of medium-size profile lettering
- Indirect lighting and backlighting in general and architectural lighting

# BackLED S



Product reference	Product number	COLOR	V	W CHAIN	W MODULE	
BA01SA-W4F-765 <sup>1)</sup>	4008321640666	White	12	15.0	0.17	155
BA01SA-W4F-830 <sup>1)</sup>	4008321640741	White	12	15.0	0.17	155
BA01SA-R2 <sup>1)</sup>	4008321640826	Red	12	15.0	0.17	155
BA01SA-O2 <sup>1)</sup>	4008321640840	Orange	12	15.0	0.17	155
BA01SA-G2 <sup>1)</sup>	4008321640864	Green	12	15.0	0.17	155
BA01SA-B2 <sup>1)</sup>	4008321640888	Blue	12	15.0	0.17	155
Product reference			K	lm CHAIN	lm MODULE	
BA01SA-W4F-765 <sup>1)</sup>	—	—	6500	1341	14.9	1
BA01SA-W4F-830 <sup>1)</sup>	—	—	3000	1134	12.6	1
BA01SA-R2 <sup>1)</sup>	625	—	—	432	4.8	1
BA01SA-O2 <sup>1)</sup>	603	—	—	513	5.7	1
BA01SA-G2 <sup>1)</sup>	522	—	—	549	6.1	1
BA01SA-B2 <sup>1)</sup>	467	—	—	162	1.8	1

<sup>1)</sup> Modules perfectly matched to 12V OSRAM OPTOTRONIC® electronic control gear. For current photometric data and important safety, installation and application information go to [www.osram.com/signage](http://www.osram.com/signage). In view of the complex manufacturing process for light emitting diodes, the typical values given above for the technical LED parameters are merely statistical values that do not necessarily correspond to the actual technical parameters of an individual product; individual products may vary from the typical values.

### Product characteristics

- Chain of 90 LED modules with 1 LED each, connected with flexible cable
- The maximum length of a chain is 7.20 m
- IP66 protection for the LED modules
- Four different OPTOTRONIC® 12 V units available

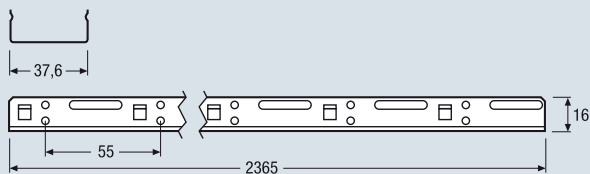
### Product benefits

- Flat Ray technology ensures uniform illumination for maximum LED spacing
- Much better application efficiency compared with systems without lenses
- Quick and easy mounting with screws or adhesive
- Special robust encapsulation for permanent outdoor use in enclosed profile lettering
- Outstanding module efficiency
- Fully integrated heat sink
- Extremely long lifetime

### Applications

- Signage (advertising and lettering)
- Backlighting of small and/or low-profile lettering
- Indirect lighting and backlighting in general and architectural lighting

## Mounting profile for BoxLED® and BackLED



**Product  
reference**

BX-MP <sup>1)</sup>

**Product  
number**

4008321981110



24

<sup>1)</sup> For current data and important safety, installation and application information see [www.osram.com/signage](http://www.osram.com/signage).

### Product characteristics

- Universal mounting profile for single-sided and double-sided light boxes
- Suitable for BoxLED® Side, BoxLED® Back and BackLED L
- Overall length 2365 mm – can be easily shortened to any length

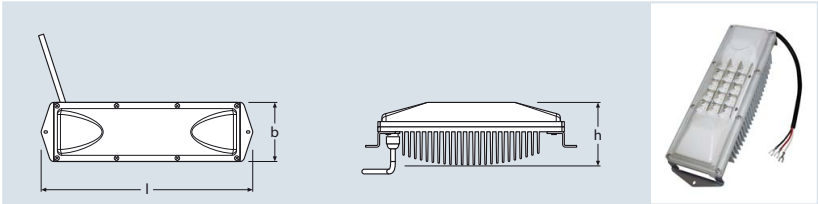
### Product benefits


- Quick and simple mounting of the profile using self-tapping screws or blind rivets
- Click & Play Quick and simple snap-in fixing of the LED modules – no tools required
- Anodized aluminum profile: robust and corrosion-proof
- Integrated 55 mm mounting grid for simple positioning of the LED modules
- Integrated fixing option for cables

### Applications







- Signage (advertising and lettering)
- Backlighting of single-sided and double-sided light boxes

# STREETlight Protect



Product reference	Product number	V	W		K
SLP1-W4F-830-L75x130 <sup>1)</sup>	4008321 <b>964724</b>	24	23.0	75 x130	3000
SLP1-W4F-840-L75x130 <sup>1)</sup>	4008321 <b>964731</b>	24	23.0	75 x130	4000
SLP1-W4F-854-L75x130 <sup>1)</sup>	4008321 <b>964748</b>	24	23.0	75 x130	5400
SLP1-W4F-765-L75x130 <sup>1)</sup>	4008321 <b>964755</b>	24	23.0	75 x130	6500

Product reference						
SLP1-W4F-830-L75x130 <sup>1)</sup>	1050	600	250	70.0	73.7	4
SLP1-W4F-840-L75x130 <sup>1)</sup>	1050	600	250	70.0	73.7	4
SLP1-W4F-854-L75x130 <sup>1)</sup>	1050	600	250	70.0	73.7	4
SLP1-W4F-765-L75x130 <sup>1)</sup>	1430	650	250	70.0	73.7	4

<sup>1)</sup> For current photometric data and important safety installation and application information see [www.osram.com/streetlight](http://www.osram.com/streetlight). | All the technical parameters apply to the entire module. In view of the complex manufacturing process for light emitting diodes, the typical values given above for the technical LED parameters are merely statistical values that do not necessarily correspond to the actual technical parameters of an individual product; individual products may vary from the typical values.

### Product characteristics

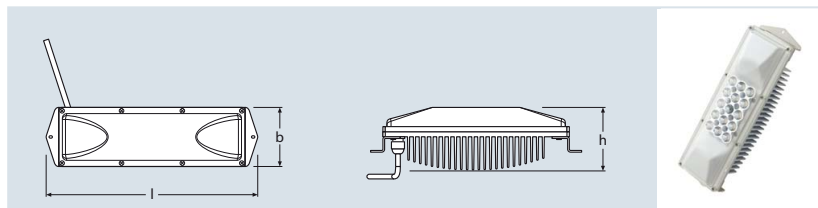
- Integrated lens/reflector system with a 75°x130° beam angle
- Choice of four color temperatures
- Type of protection IP66 to IEC 60529


### Product benefits

- Rapid design-in as optics and heat sinks are included or completely encapsulated
- Simple replacement of the LED module by means of M3 screws


### Applications

- LED module for technical and decorative street lighting



Product reference	Product number	A	W		K
HPML CC-W4-765 L75X130 <sup>1)</sup>	4008321 <b>660893</b>	0.4	18	75x130	6500
HPML CC-W4F-840 L75X130 <sup>1)</sup>	4008321 <b>579485</b>	0.4	18	75x130	4000
HPML CC-W4F-830 L75X130 <sup>1)</sup>	4008321 <b>579362</b>	0.4	18	75x130	3000
HPML CC-W4-765 L60X60 <sup>1)</sup>	4008321 <b>660831</b>	0.4	18	60x60	6500
HPML CC-W4F-840 L60X60 <sup>1)</sup>	4008321 <b>630629</b>	0.4	18	60x60	4000
HPML CC-W4F-830 L60X60 <sup>1)</sup>	4008321 <b>630506</b>	0.4	18	60x60	3000
HPML CC-W4-765 L30X30 <sup>1)</sup>	4008321 <b>660763</b>	0.4	18	30x30	6500
HPML CC-W4F-840 L30X30 <sup>1)</sup>	4008321 <b>630261</b>	0.4	18	30x30	4000
HPML CC-W4F-830 L30X30 <sup>1)</sup>	4008321 <b>630148</b>	0.4	18	30x30	3000

Product reference	lm	Cable length (mm)	l (mm)	b (mm)	h (mm)	
HPML CC-W4-765 L75X130 <sup>1)</sup>	1500	500	220	70	74	4
HPML CC-W4F-840 L75X130 <sup>1)</sup>	1010	500	220	70	74	4
HPML CC-W4F-830 L75X130 <sup>1)</sup>	1010	500	220	70	74	4
HPML CC-W4-765 L60X60 <sup>1)</sup>	1500	500	220	70	74	4
HPML CC-W4F-840 L60X60 <sup>1)</sup>	1010	500	220	70	74	4
HPML CC-W4F-830 L60X60 <sup>1)</sup>	1010	500	220	70	74	4
HPML CC-W4-765 L30X30 <sup>1)</sup>	1500	500	220	70	74	4
HPML CC-W4F-840 L30X30 <sup>1)</sup>	1010	500	220	70	74	4
HPML CC-W4F-830 L30X30 <sup>1)</sup>	1010	500	220	70	74	4

<sup>1)</sup> For current photometric data and important safety installation and application information see [www.osram.com/streetlight](http://www.osram.com/streetlight). All the technical parameters apply to the entire module. In view of the complex manufacturing process for light emitting diodes, the typical values given above for the technical LED parameters are merely statistical values that do not necessarily correspond to the actual technical parameters of an individual product; individual products may vary from the typical values.

## Product characteristics

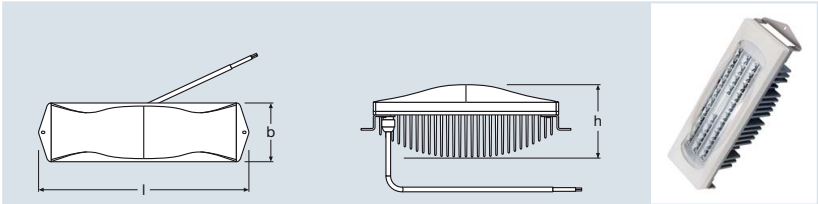
- High optical efficiency of 92 %
- Integrated lens/reflector system with beam angles of 75° x 130°, 60° x 60° or 30° x 30°
- Choice of three color temperatures
- Type of protection IP66 to IEC 60529


## Product benefits

- Rapid design-in because optics and heat sinks are included or completely encapsulated
- Constant-current control maximizes system efficiency
- Permissible input current 350-700 mA enables a balance to be made between system efficiency and costs
- Module design enables space-saving arrangement of multiple modules
- Simple replacement of the LED module by means of two M3 screws


## Applications

- Technical and decorative street lighting
- Flood lighting
- High and low-bay lighting



Product reference	Product number	A	W		K
HPML AD-W4F-830 L60X60 46V <sup>1)</sup>	4008321642875	0.4	36	60x60	3000
HPML AD-W4F-740 L60X60 46V <sup>1)</sup>	4008321643308	0.4	36	60x60	4000
HPML AD-W4F-765 L60X60 46V <sup>1)</sup>	4008321643124	0.4	36	60x60	6500
HPML AD-W4-765 L130X50 46V <sup>1)</sup>	4008321643063	0.4	36	130x50	6500

Product reference	lm	Cable length (mm)	l [mm]	b [mm]	h (mm)	
HPML AD-W4F-830 L60X60 46V <sup>1)</sup>	1860	500	220	70	87	4
HPML AD-W4F-740 L60X60 46V <sup>1)</sup>	1860	500	220	70	87	4
HPML AD-W4F-765 L60X60 46V <sup>1)</sup>	2500	500	220	70	87	4
HPML AD-W4-765 L130X50 46V <sup>1)</sup>	2500	500	220	70	87	4

<sup>1)</sup> For current photometric data and important safety, installation and application information see [www.osram.com/streetlight](http://www.osram.com/streetlight). | All the technical parameters apply to the entire module. In view of the complex manufacturing process for light emitting diodes, the typical values given above for the technical LED parameters are merely statistical values that do not necessarily correspond to the actual technical parameters of an individual product; individual products may vary from the typical values.

Product characteristics

- High optical efficiency of 92 %
- Integrated lens/reflector system with a beam angle of 60° x 60° (50° x 130° in preparation)
- Choice of three color temperatures
- Type of protection IP66 to IEC 60529

Product benefits

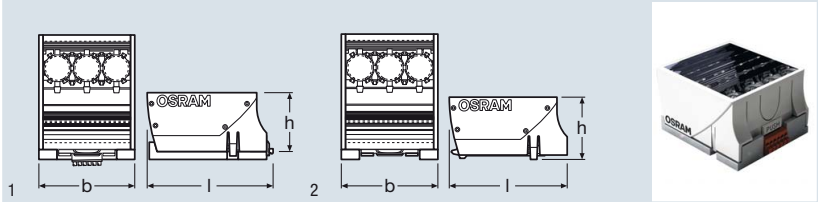
- Rapid design-in because optics and heat sinks are included or completely encapsulated
- Constant-current control maximizes system efficiency
- Permissible input current 350-700 mA enables a balance to be made between system efficiency and costs
- Module design enables space-saving arrangement of multiple modules
- Simple replacement of the LED module by means of two M3 screws


Applications

- Flood lighting
- High and low-bay lighting
- (Street lighting in preparation)








# STREETlight Advanced



Product reference	Product number	V	W		K
SLA1-SL-105-830-L80x140 <sup>1)</sup>	4008321960085	24	29.0	80 x140	3000
SLA1-SL-123-742-L80x140 <sup>1)</sup>	4008321965981	24	29.0	80 x140	4200
SLA1-SL-143-760-L80x140 <sup>1)</sup>	4008321960061	24	29.0	80 x140	6000
SLA1-L-105-830-L80x140 <sup>2)</sup>	4008321958877	24	29.0	80 x140	3000
SLA1-L-123-742-L80x140 <sup>2)</sup>	4008321965967	24	29.0	80 x140	4200
SLA1-L-143-760-L80x140 <sup>2)</sup>	4008321958853	24	29.0	80 x140	6000

Product reference	lm					
SLA1-SL-105-830-L80x140 <sup>1)</sup>	1050	98	72.0	50.8	20	1
SLA1-SL-123-742-L80x140 <sup>1)</sup>	1230	98	72.0	50.8	20	1
SLA1-SL-143-760-L80x140 <sup>1)</sup>	1430	98	72.0	50.8	20	1
SLA1-L-105-830-L80x140 <sup>2)</sup>	1050	98	72.0	44.8	20	2
SLA1-L-123-742-L80x140 <sup>2)</sup>	1230	98	72.0	44.8	20	2
SLA1-L-143-760-L80x140 <sup>2)</sup>	1430	98	72.0	44.8	20	2

1) For current photometric data and important safety, installation and application information see [www.osram.com/streetlight](http://www.osram.com/streetlight). I All the technical parameters apply to the entire module. In view of the complex manufacturing process for light emitting diodes, the typical values given above for the technical LED parameters are merely statistical values that do not necessarily correspond to the actual technical parameters of an individual product; individual products may vary from the typical values.

2) L version without base (spare part)

## Product characteristics

- Integrated lens/reflector system with an 80° x 140° beam angle
- Choice of three color temperatures

## Product benefits

- Rapid design-in as streetlighting optics are included
- Extremely simple replacement of the LED module – no tools required
- Uniform appropriately limited street lighting with no scattered light, in compliance with EN 13201
- Extremely compact dimensions – also fits in existing fixtures

## Applications

- LED module for technical and decorative street lighting

# The PrevaLED® light engine concept

## What is the difference between a light engine and an LED module?

Compared to a normal LED module the light engine concept aims to keep certain parameters constant across several product generations. The most important parameters are as follows:

- Mechanical: The geometry and fixing points of the module remain constant
- Optical: The lumen packages and beam characteristics remain constant

The PrevaLED® light engine concept from OSRAM also includes the development of perfectly matched components. For each LED module there are dedicated control gear and connecting cables available.



### PrevaLED® LED modules

PrevaLED® LED modules are available in different versions for different lumen outputs and color rendering.



### OPTOTRONIC® control gear

OPTOTRONIC® units provide the basis for the optimum use of PrevaLED® LED modules.



### Connecting cable

Used for correct polarity connection of the individual PrevaLED® LED modules with the control gear.

## What are the benefits?

Light engines are powerful and highly efficient and offer enormous freedom for fixture designers. Thanks to defined interfaces they are the ideal platform for future-proof developments. On the one hand they reduce the complexity of the LED luminaires thanks to their constant parameters, and on the other hand their perfectly matched components ensure fault-free operation.

The geometry and luminous flux of the individual light engines remain constant, and advances in LED technology lead to improvements in the efficiency of the system or to cost reductions. A luminaire that has been designed on the basis of a particular light engine therefore automatically benefits from development progress without the need for any costly modifications to the basic design.

## Background information: Standardization of LED light engines

The Zhaga consortium is an international cooperation of luminaire manufacturers, lamp manufacturers, producers of LED modules and suppliers in the lighting industry. The Zhaga consortium was set up to standardize LED light sources (LED light engines).



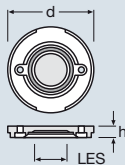
Interchangeability of LED light engines is achieved by defining the important parameters for the interfaces, while retaining freedom for further innovations in LED and driver technology. The Zhaga interface specifications cover the physical dimensions as well as the photometric, electrical and thermal properties of the different LED light engines.

The Zhaga consortium was established in February 2010 and now includes more than 160 companies. OSRAM AG is a full member. The members meet regularly in different regions of the world. Large parts of the new PrevaLED® Core portfolio cover the Zhaga Specification Book 3 for "Spot LED Light Engine with Separate Electronic Control Gear".

For more information go to [www.zhagastandard.org](http://www.zhagastandard.org)

[www.osram.com/prevaled](http://www.osram.com/prevaled)

# PrevaLED® Core – CRI >90







LES - Light Emitting Surface



Product reference	Product number	W	lm	lm/W	W <sub>SYSTEM</sub>	lm/W <sub>SYSTEM</sub>
LEP-3000-930-HD-C <sup>1)</sup>	4008321 <b>966070</b>	39	3000	77	43	70
LEP-3000-840-HD-C <sup>1)</sup>	4008321 <b>966094</b>	39	3000	77	43	70
LEP-2100-930-HD-C <sup>1)</sup>	4008321 <b>963352</b>	25	2100	84	28	75
LEP-2100-840-HD-C <sup>1)</sup>	4008321 <b>963369</b>	25	2100	84	28	75
LEP-1500-930-HD-C <sup>1)</sup>	4008321 <b>644466</b>	19	1500	84	16	75
LEP-1500-840-HD-C <sup>1)</sup>	4008321 <b>644480</b>	19	1500	84	16	75
LEP-800-930-HD-C <sup>1)</sup>	4008321 <b>963390</b>	9	800	88	11	75
LEP-800-840-HD-C <sup>1)</sup>	4008321 <b>963406</b>	9	800	88	11	75
LEP-3000-927-C-Z2 <sup>1)</sup>	4008321 <b>993861</b>	36	3000	84	41	72
LEP-3000-930-C-Z2 <sup>1)</sup>	4008321 <b>993885</b>	33	3000	90	38	79
LEP-3000-935-C-Z2 <sup>1)</sup>	4008321 <b>993908</b>	33	3000	90	37	82
LEP-3000-940-C-Z2 <sup>1)</sup>	4008321 <b>990273</b>	32	3000	93	37	82
LEP-2000-927-C-Z2 <sup>1)</sup>	4008321 <b>990297</b>	22	2000	90	26	78
LEP-2000-930-C-Z2 <sup>1)</sup>	4008321 <b>990310</b>	21	2000	97	24	84
LEP-2000-935-C-Z2 <sup>1)</sup>	4008321 <b>990334</b>	20	2000	100	23	87
LEP-2000-940-C-Z2 <sup>1)</sup>	4008321 <b>990358</b>	20	2000	101	23	88
LEP-1500-927-C-Z2 <sup>1)</sup>	4008321 <b>990372</b>	21	1500	72	24	62
LEP-1500-930-C-Z2 <sup>1)</sup>	4008321 <b>990396</b>	19	1500	80	23	65
LEP-1500-935-C-Z2 <sup>1)</sup>	4008321 <b>990419</b>	19	1500	80	22	68
LEP-1500-940-C-Z2 <sup>1)</sup>	4008321 <b>990433</b>	19	1500	80	22	68
LEP-800-927-C-Z2 <sup>1)</sup>	4008321 <b>990457</b>	11	800	73	13	61
LEP-800-930-C-Z2 <sup>1)</sup>	4008321 <b>990471</b>	11	800	73	13	61
LEP-800-935-C-Z2 <sup>1)</sup>	4008321 <b>990495</b>	11	800	73	13	61
LEP-800-940-C-Z2 <sup>1)</sup>	4008321 <b>990518</b>	11	800	73	13	61

<sup>1)</sup> Modules perfectly matched to OSRAM OPTOTRONIC® electronic control gear (see relevant table). <sup>1</sup> For current photometric data and important safety, installation and application information go to [www.osram.com/prevalled](http://www.osram.com/prevalled). All the technical parameters apply to the entire module. In view of the complex manufacturing process for light emitting diodes, the specified typical values for the technical LED parameters are merely statistical values that do not necessarily correspond to the actual technical parameters of an individual product; individual products may vary from the typical values.

Product reference	K	Ra		Initial SDCM	 d [mm]	 h [mm]	
LEP-3000-930-HD-C <sup>1)</sup>	3000	>90	>130	<3	50	8,6	20
LEP-3000-840-HD-C <sup>1)</sup>	4000	>85	>130	<3	50	8,6	20
LEP-2100-930-HD-C <sup>1)</sup>	3000	>90	>130	<3	50	8,6	20
LEP-2100-840-HD-C <sup>1)</sup>	4000	>85	>130	<3	50	8,6	20
LEP-1500-930-HD-C <sup>1)</sup>	3000	>90	>130	<3	50	8,6	20
LEP-1500-840-HD-C <sup>1)</sup>	4000	>85	>130	<3	50	8,6	20
LEP-800-930-HD-C <sup>1)</sup>	3000	>90	>130	<3	50	8,6	20
LEP-800-840-HD-C <sup>1)</sup>	4000	>85	>130	<3	50	8,6	20
LEP-3000-927-C-Z2 <sup>1)</sup>	2700	>90	120	<3	50	7,2	20
LEP-3000-930-C-Z2 <sup>1)</sup>	3000	>90	120	<3	50	7,2	20
LEP-3000-935-C-Z2 <sup>1)</sup>	3500	>90	120	<3	50	7,2	20
LEP-3000-940-C-Z2 <sup>1)</sup>	4000	>90	120	<3	50	7,2	20
LEP-2000-927-C-Z2 <sup>1)</sup>	2700	>90	120	<3	50	7,2	20
LEP-2000-930-C-Z2 <sup>1)</sup>	3000	>90	120	<3	50	7,2	20
LEP-2000-935-C-Z2 <sup>1)</sup>	3500	>90	120	<3	50	7,2	20
LEP-2000-940-C-Z2 <sup>1)</sup>	4000	>90	120	<3	50	7,2	20
LEP-1500-927-C-Z2 <sup>1)</sup>	2700	>90	120	<3	50	7,2	20
LEP-1500-930-C-Z2 <sup>1)</sup>	3000	>90	120	<3	50	7,2	20
LEP-1500-935-C-Z2 <sup>1)</sup>	3500	>90	120	<3	50	7,2	20
LEP-1500-940-C-Z2 <sup>1)</sup>	4000	>90	120	<3	50	7,2	20
LEP-800-927-C-Z2 <sup>1)</sup>	2700	>90	120	<3	50	7,2	20
LEP-800-930-C-Z2 <sup>1)</sup>	3000	>90	120	<3	50	7,2	20
LEP-800-935-C-Z2 <sup>1)</sup>	3500	>90	120	<3	50	7,2	20
LEP-800-940-C-Z2 <sup>1)</sup>	4000	>90	120	<3	50	7,2	20

<sup>1)</sup> Modules perfectly matched to OSRAM OPTOTRONIC® electronic control gear (see relevant table). | For current photometric data and important safety, installation and application information go to [www.osram.com/prevaled](http://www.osram.com/prevaled). All the technical parameters apply to the entire module. In view of the complex manufacturing process for light emitting diodes, the specified typical values for the technical LED parameters are merely statistical values that do not necessarily correspond to the actual technical parameters of an individual product; individual products may vary from the typical values.

PrevaLED® Core light engines are offered as a system comprising perfectly matched standardized LED modules, ECGs and connecting cables.

### Product characteristics

- Z2 types comply with the standards of the Zhaga consortium for spotlight modules with a diameter of 50 mm
- Z2 types have an extremely uniform luminance distribution (Zhaga Uniformity U > 0.9)
- Light-emitting surface as per Zhaga Book 3: LES 9 for LEP-800, LES 19 for LEP-1500 and LEP-2000 and LES 23 for LEP-3000
- Available with lumen packages of 800 lm to 3000 lm in light colors from 2700 K to 4000 K
- Module efficiency of up to 101 lm/W, system efficiency incl. ECG and temperature losses up to 88 lm/W
- CRI > 90 for Z2 types
- Same dimensions for the light engine irrespective of the lumen package
- Use with OPTOTRONIC® OTp ECG
- Connection with prepared cable
- No UV radiation
- No heat (IR) emitted in the direction of the light
- Life of up to 50,000 hours (L70/B50) and 5-year system guarantee



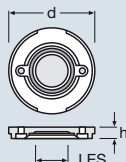
### Product benefits

- Fixed interfaces and dimensions provide the basis for future-proof designs with reduced fixture development costs
- Platform with fixed lumen packages enable the modules to be replaced at a later date
- Great freedom of design thanks to maximum optical performance and flexibility
- High quality of light with high CRI (> 90 for Z2 types) at full system efficiency
- Optimized uniformity of light thanks to PreMix accessory (for HD types only)
- Reduction in UV-related and IR-related deterioration
- Enhanced safety thanks to hot strike (the LED module is automatically switched back on by the ECG after a power outage)
- Reduced maintenance costs thanks to long life and system guarantee

### Applications

- Ideal for spotlight applications in retail outlets
- Downlights in corridors and offices

PrevaLED® Core – CRI 80







LES - Light Emitting Surface



Product reference	Product number	W	lm	lm/W	W SYSTEM	lm/W SYSTEM
LEP-5000-830-C-Z2 <sup>1)</sup>	4008321 <b>993649</b>	58	5000	86	67	75
LEP-5000-835-C-Z2 <sup>1)</sup>	4008321 <b>993663</b>	57	5000	87	66	76
LEP-5000-840-C-Z2 <sup>1)</sup>	4008321 <b>993687</b>	56	5000	89	65	77
LEP-4000-827-C-Z2 <sup>1)</sup>	4008321 <b>993700</b>	46	4000	87	54	74
LEP-4000-830-C-Z2 <sup>1)</sup>	4008321 <b>993724</b>	42	4000	96	49	82
LEP-4000-835-C-Z2 <sup>1)</sup>	4008321 <b>993748</b>	41	4000	97	48	83
LEP-4000-840-C-Z2 <sup>1)</sup>	4008321 <b>993762</b>	40	4000	99	48	84
LEP-3000-827-C-Z2 <sup>1)</sup>	4008321 <b>993786</b>	31	3000	97	36	84
LEP-3000-830-C-Z2 <sup>1)</sup>	4008321 <b>993809</b>	29	3000	104	33	90
LEP-3000-835-C-Z2 <sup>1)</sup>	4008321 <b>993823</b>	29	3000	107	32	93
LEP-3000-840-C-Z2 <sup>1)</sup>	4008321 <b>993847</b>	28	3000	108	32	94
LEP-2000-827-C-Z2 <sup>1)</sup>	4008321 <b>745422</b>	28	2000	72	32	62
LEP-2000-830-C-Z2 <sup>1)</sup>	4008321 <b>745361</b>	25	2000	79	29	68
LEP-2000-835-C-Z2 <sup>1)</sup>	4008321 <b>745446</b>	25	2000	81	29	70
LEP-2000-840-C-Z2 <sup>1)</sup>	4008321 <b>745408</b>	24	2000	82	28	71
LEP-1500-827-C-Z2 <sup>1)</sup>	4008321 <b>745545</b>	19	1500	80	22	67
LEP-1500-830-C-Z2 <sup>1)</sup>	4008321 <b>745569</b>	17	1500	87	21	73
LEP-1500-835-C-Z2 <sup>1)</sup>	4008321 <b>745583</b>	17	1500	89	20	74
LEP-1500-840-C-Z2 <sup>1)</sup>	4008321 <b>745606</b>	17	1500	90	20	75
LEP-800-827-C-Z2 <sup>1)</sup>	4008321 <b>745460</b>	10	800	79	12	65
LEP-800-830-C-Z2 <sup>1)</sup>	4008321 <b>745484</b>	10	800	79	12	65
LEP-800-835-C-Z2 <sup>1)</sup>	4008321 <b>745507</b>	10	800	79	12	65
LEP-800-840-C-Z2 <sup>1)</sup>	4008321 <b>745521</b>	10	800	84	12	69

<sup>1)</sup> Modules perfectly matched to OSRAM OPTOTRONIC® electronic control gear (see relevant table). | For current photometric data and important safety, installation and application information go to [www.osram.com/prevaled](http://www.osram.com/prevaled). All the technical parameters apply to the entire module. In view of the complex manufacturing process for light emitting diodes, the specified typical values for the technical LED parameters are merely statistical values that do not necessarily correspond to the actual technical parameters of an individual product; individual products may vary from the typical values.

Product reference	K	Ra		Initial SDCM	 d [mm]	 h [mm]	
LEP-5000-830-C-Z2 <sup>1)</sup>	3000	83	120	<3	50	7.2	20
LEP-5000-835-C-Z2 <sup>1)</sup>	3500	83	120	<3	50	7.2	20
LEP-5000-840-C-Z2 <sup>1)</sup>	4000	83	120	<3	50	7.2	20
LEP-4000-827-C-Z2 <sup>1)</sup>	2700	83	120	<3	50	7.2	20
LEP-4000-830-C-Z2 <sup>1)</sup>	3000	83	120	<3	50	7.2	20
LEP-4000-835-C-Z2 <sup>1)</sup>	3500	83	120	<3	50	7.2	20
LEP-4000-840-C-Z2 <sup>1)</sup>	4000	83	120	<3	50	7.2	20
LEP-3000-827-C-Z2 <sup>1)</sup>	2700	83	120	<3	50	7.2	20
LEP-3000-830-C-Z2 <sup>1)</sup>	3000	83	120	<3	50	7.2	20
LEP-3000-835-C-Z2 <sup>1)</sup>	3500	83	120	<3	50	7.2	20
LEP-3000-840-C-Z2 <sup>1)</sup>	4000	83	120	<3	50	7.2	20
LEP-2000-827-C-Z2 <sup>1)</sup>	2700	83	120	<3	50	7.2	20
LEP-2000-830-C-Z2 <sup>1)</sup>	3000	83	120	<3	50	7.2	20
LEP-2000-835-C-Z2 <sup>1)</sup>	3500	83	120	<3	50	7.2	20
LEP-2000-840-C-Z2 <sup>1)</sup>	4000	83	120	<3	50	7.2	20
LEP-1500-827-C-Z2 <sup>1)</sup>	2700	83	120	<3	50	7.2	20
LEP-1500-830-C-Z2 <sup>1)</sup>	3000	83	120	<3	50	7.2	20
LEP-1500-835-C-Z2 <sup>1)</sup>	3500	83	120	<3	50	7.2	20
LEP-1500-840-C-Z2 <sup>1)</sup>	4000	83	120	<3	50	7.2	20
LEP-800-827-C-Z2 <sup>1)</sup>	2700	83	120	<3	50	7.2	20
LEP-800-830-C-Z2 <sup>1)</sup>	3000	83	120	<3	50	7.2	20
LEP-800-835-C-Z2 <sup>1)</sup>	3500	83	120	<3	50	7.2	20
LEP-800-840-C-Z2 <sup>1)</sup>	4000	83	120	<3	50	7.2	20

<sup>1)</sup> Modules perfectly matched to OSRAM OPTOTRONIC® electronic control gear (see relevant table). † For current photometric data and important safety, installation and application information go to [www.osram.com/prevald](http://www.osram.com/prevald). All the technical parameters apply to the entire module. In view of the complex manufacturing process for light emitting diodes, the specified typical values for the technical LED parameters are merely statistical values that do not necessarily correspond to the actual technical parameters of an individual product; individual products may vary from the typical values.



PrevaLED® Core light engines are offered as a system comprising perfectly matched standardized LED modules, ECGs and connecting cables.

#### Product characteristics

- Z2 types comply with the standards of the Zhaga consortium for spotlight modules with a diameter of 50 mm
- Z2 types have an extremely uniform luminance distribution (Zhaga Uniformity U > 0.9)
- Light-emitting surface as per Zhaga Book 3: LES 9 for LEP-800, LES 19 for LEP-1500 and LEP-2000 and LES 23 for LEP-3000, LEP-4000 and LEP-5000
- Available with lumen packages of 800 lm to 5000 lm in light colors from 2700 K to 4000 K
- Module efficiency of 72-108 lm/W, system efficiency incl. ECG and temperature losses up to 94 lm/W
- Use with OPTOTRONIC® OTp ECG
- Connection with prepared cable
- No UV radiation
- No heat (IR) emitted in the direction of the light
- Life of up to 50,000 hours (L70/B50) and 5-year system guarantee



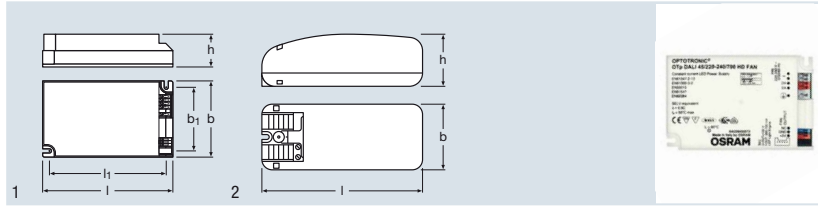
#### Product benefits

- Even more efficient fixtures can be developed for additional energy savings
- Simple interchangeability thanks to the same dimensions and constant lumen packages
- Wide variety of fixture designs thanks to a broad portfolio
- Smaller light emission surface and positioning close to the reflector enables better optical handling
- Level light emission surface and excellent uniformity thanks to CoB (Chip on Board) technology
- No diffuser (e.g. LEP PreMix) necessary
- Reduction in UV-related and IR-related deterioration
- Enhanced safety thanks to hot restrike (the LED module is automatically switched back on by the ECG after a power outage)
- Reduced maintenance costs thanks to long life and system guarantee

#### Applications

- Ideal for spotlight applications in retail outlets
- Downlights in corridors and offices

# OPTOTRONIC® control gear for PrevaLED® Core



Product reference	Product number	W	CONTROL	V/V AUXILIARY OUTPUT
OTp 60/220-240/2000 FAN	4008321990532	60	—	12/1
OTp DALI 45/220-240/700 HD FAN	4008321659880	45	DALI	5/1
OTp 45/220-240/700 HD FAN	4008321633705	45	—	5/1
OTp 45/220-240/700 HD	4008321966117	45	—	—
OTp DALI 35/220-240/700 HD	4008321963413	35	DALI	—
OTp 35/220-240/700 HD	4008321963420	35	—	—
OTp 35/220-240/700	4008321962218	35	—	—
OTp 15/220-240/700 HD	4008321962225	15	—	—

Product reference	T <sub>a</sub>	l [mm]	b [mm]	h [mm]		No.
OTp 60/220-240/2000 FAN	-20...50	148	60	35	20	—
OTp DALI 45/220-240/700 HD FAN	-20...50	123	79	33	20	1
OTp 45/220-240/700 HD FAN	-20...50	123	79	33	20	1
OTp 45/220-240/700 HD	-20...50	123	79	33	20	1
OTp DALI 35/220-240/700 HD	-20...50	123	79	33	20	1
OTp 35/220-240/700 HD	-20...50	123	79	33	20	1
OTp 35/220-240/700	-20...50	123	79	33	20	1
OTp 15/220-240/700 HD	-20...50	109	50	35	20	2

## Product characteristics

- DALI versions available
- Auxiliary supply for active cooling, 5 V for OTp 45 FAN and 12 V for OTp 60
- Optional cable clamp for strain relief

## Product benefits

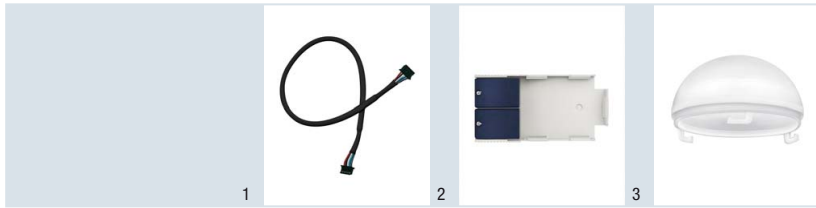
- Dedicated ECG for PrevaLED® Core light engine



Light engine / control gear combination for PrevaLED® Core	OTp 60 FAN	OTp DALI 45 HD Fan	OTp 45 HD Fan	OTp 45 HD	OTp DALI 35 HD	OTp 35 HD	OTp 35	OTp 15 HD
PrevaLED® Core – CRI >90								
LEP-3000-xxx-HD-C	×	●	●	●	×	×	×	×
LEP-3000-xxx-C-Z2	×	●	●	●	×	×	×	×
LEP-2100-xxx-HD-C	×	○	○	○	●	●	×	×
LEP-2000-xxx-C-Z2	×	●	●	●	●	●	●	×
LEP-1500-xxx-HD-C	×	○	○	○	●	●	×	×
LEP-1500-xxx-C-Z2	×	●	●	●	●	●	●	×
LEP-800-xxx-HD-C	×	○	○	○	○	○	×	●
LEP-800-xxx-C-Z2	×	○	○	○	●	●	×	○
PrevaLED® Core – CRI 80								
LEP-5000-8xx-C-Z2	●	×	×	×	×	×	×	×
LEP-4000-8xx-C-Z2	●	×	×	×	×	×	×	×
LEP-3000-8xx-C-Z2	×	●	●	●	×	×	×	×
LEP-2000-8xx-C-Z2	×	●	●	●	●	●	●	×
LEP-1500-8xx-C-Z2	×	●	●	●	●	●	●	×
LEP-800-8xx-C-Z2	×	○	○	○	●	●	×	○

● Recommended combination  
 ○ Possible combination  
 × Not possible

ECG and light engine function 1:1

## Accessories for PrevaLED® Core



Product reference	Product number		
OTp cable 400mm <sup>1)</sup>	4008321966131	20	1
OTp cable 800mm <sup>1)</sup>	4008321590565	20	1
OTp cable Z2 400mm <sup>1)</sup>	4008321679543	20	1
OTp cable Z2 800mm <sup>1)</sup>	4008321679512	20	1
OTp cable Z2 OW 800mm	4008321991676	20	1
Cable clamp OTp 45, OTp 35 <sup>1)</sup>	4008321966155	10	2
LEP PreMix <sup>1)</sup>	4008321674982	10	3

<sup>1)</sup> For current data and important safety, installation and application information see [www.osram.com/prevaled](http://www.osram.com/prevaled).

Light engine/accessory combination for PrevaLED® Core	OTp cable 400mm	OTp cable 800mm	OTp cable Z2 400mm	OTp cable Z2 800mm	OTp cable Z2 OW 800mm	LEP PreMix	Cable clamp
OTp types							
OTp 60 <sup>1)</sup>	×	×	×	×	●	×	×
OTp 45 HD types <sup>1)</sup>	●	●	●	●	×	×	optional
OTp 35 HD types <sup>1)</sup>	●	●	●	●	×	×	optional
OTp 35 <sup>1)</sup>	●	●	●	●	×	×	optional
OTp 15 HD <sup>1)</sup>	●	●	●	●	×	×	×
PrevaLED Core® – CRI >90							
LEP-xxxx-xxx-HD-C <sup>1)</sup>	●	●	×	×	×	optional	×
LEP-800-3000-xxx-C-Z2 <sup>1)</sup>	×	×	●	●	●	×	×
PrevaLED Core® – CRI 80							
LEP-800-3000-xxx-C-Z2 <sup>1)</sup>	×	×	●	●	●	×	×

● Recommended combination  
 × Not possible

<sup>1)</sup> For current data and important safety, installation and application information see [www.osram.com/prevaled](http://www.osram.com/prevaled).

### Cables

- In two lengths according to the fixture design
- Protected against reverse voltage
- Connects the individual PrevaLED® Core light engine to the power supply

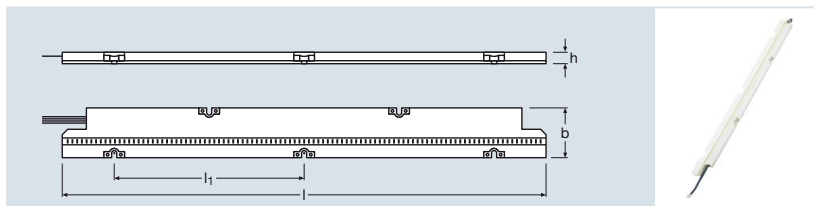
### Cable clamp (optional)

- No need for external strain relief
- ECG with strain relief suitable for separate installation
- ECG is clicked in

### LEP PreMix

- Tailored for HD types
- Diffuse interior and structured outer surface
- Durable glass construction
- No impact on module lifetime
- Optimized light homogeneity for reflector-based applications
- Reduces color fringes and multiple shadows
- Snap mounting in module locking ring
- Additional protection for the module against touching





Product reference	Product number	W	lm	lm/W	W <sub>SYSTEM</sub>	lm/W <sub>SYSTEM</sub>	K
LEP-1000-830-L <sup>1)</sup>	4008321975638	9 <sup>2)</sup>	1000 <sup>2)</sup>	118 <sup>2)</sup>	10 <sup>2)</sup>	100 <sup>2)</sup>	3000
LEP-1000-840-L <sup>1)</sup>	4008321971944	9 <sup>2)</sup>	1000 <sup>2)</sup>	118 <sup>2)</sup>	10 <sup>2)</sup>	100 <sup>2)</sup>	4000
LEP-1000-850-L <sup>1)</sup>	4008321975652	9 <sup>2)</sup>	1000 <sup>2)</sup>	118 <sup>2)</sup>	10 <sup>2)</sup>	100 <sup>2)</sup>	5000
LEP-2000-830-L <sup>1)</sup>	4008321975690	18 <sup>2)</sup>	2000 <sup>2)</sup>	118 <sup>2)</sup>	20 <sup>2)</sup>	100 <sup>2)</sup>	3000
LEP-2000-840-L <sup>1)</sup>	4008321975676	18 <sup>2)</sup>	2000 <sup>2)</sup>	118 <sup>2)</sup>	20 <sup>2)</sup>	100 <sup>2)</sup>	4000
LEP-2000-850-L <sup>1)</sup>	4008321975713	18 <sup>2)</sup>	2000 <sup>2)</sup>	118 <sup>2)</sup>	20 <sup>2)</sup>	100 <sup>2)</sup>	5000

Product reference	R <sub>a</sub>	∠°	Initial SDCM	l [mm]	h [mm]	b [mm]	h [mm]	
LEP-1000-830-L <sup>1)</sup>	>80	120	<3	280	110	28	6.6	12
LEP-1000-840-L <sup>1)</sup>	>80	120	<3	280	110	28	6.6	12
LEP-1000-850-L <sup>1)</sup>	>80	120	<3	280	110	28	6.6	12
LEP-2000-830-L <sup>1)</sup>	>80	120	<3	280	110	28	6.6	12
LEP-2000-840-L <sup>1)</sup>	>80	120	<3	280	110	28	6.6	12
LEP-2000-850-L <sup>1)</sup>	>80	120	<3	280	110	28	6.6	12

<sup>1)</sup> Modules perfectly matched to OSRAM OPTOTRONIC® electronic control gear (see relevant table). <sup>1</sup> For current photometric data and important safety, installation and application information go to [www.osram.com/prevaled-linear](http://www.osram.com/prevaled-linear). All the technical parameters apply to the entire module. In view of the complex manufacturing process for light emitting diodes, the specified typical values for the technical LED parameters are merely statistical values that do not necessarily correspond to the actual technical parameters of an individual product; individual products may vary from the typical values.

<sup>2)</sup> Tolerance due to LED bin

## Product characteristics

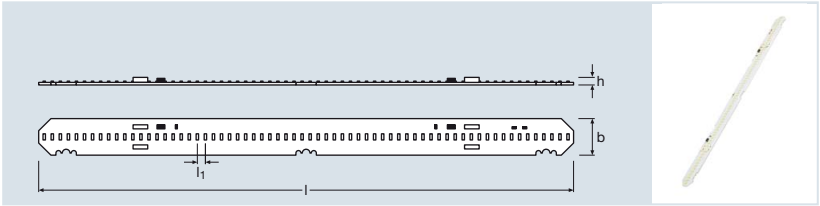
- SELV system
- Automatic detection of the number of LED modules
- OTp 40 L compatible with 2x2000 lm or 4x1000 lm modules
- Module cover with integrated reflector
- T<sub>c</sub> = 65°C
- Lifetime (L80 B50): 50,000 h
- Accessories included (end cap, flexible bridge)

## Product benefits

- Efficiency: up to 100 lm/W (system), up to 118 lm/W (module)
- Uniform distribution of light thanks to 3.7 mm LED pitches
- Consistent white light < 3 SDCM
- Seamless: no shadows between the modules
- Different mounting options for good thermal dissipation
- SELV concept for luminaires with high safety requests

## Applications

- Industry (warehouses, stockrooms, retail outlets, etc.)
- Offices (corridors etc.)



Product reference	Product number	W	lm	lm/W	W <sub>SYSTEM</sub>	lm/W <sub>SYSTEM</sub>	K
LEP-630-830-LS <sup>1)</sup>	4008321978844	5.6 <sup>2)</sup>	630 <sup>2)</sup>	112 <sup>2)</sup>	6.3 <sup>2)</sup>	100 <sup>2)</sup>	3000
LEP-630-840-LS <sup>1)</sup>	4008321978820	5.4 <sup>2)</sup>	630 <sup>2)</sup>	117 <sup>2)</sup>	6.1 <sup>2)</sup>	103 <sup>2)</sup>	4000
LEP-1000-830-LS <sup>1)</sup>	4008321978882	10.5 <sup>2)</sup>	1000 <sup>2)</sup>	95 <sup>2)</sup>	11.9 <sup>2)</sup>	84 <sup>2)</sup>	3000
LEP-1000-840-LS <sup>1)</sup>	4008321978868	8.9 <sup>2)</sup>	1000 <sup>2)</sup>	112 <sup>2)</sup>	10 <sup>2)</sup>	100 <sup>2)</sup>	4000
LEP-2000-830-LS <sup>1)</sup>	4008321978929	17.7 <sup>2)</sup>	2000 <sup>2)</sup>	113 <sup>2)</sup>	20 <sup>2)</sup>	100 <sup>2)</sup>	3000
LEP-2000-840-LS <sup>1)</sup>	4008321978905	17.4 <sup>2)</sup>	2000 <sup>2)</sup>	115 <sup>2)</sup>	19.8 <sup>2)</sup>	101 <sup>2)</sup>	4000

Product reference	R <sub>a</sub>		Initial SDCM	l [mm]	h [mm]	b [mm]	h [mm]	
LEP-630-840-LS <sup>1)</sup>	>80	120	< 3	279.4	125	20	5.7	16
LEP-630-830-LS <sup>1)</sup>	>80	120	< 3	279.4	125	20	5.7	16
LEP-1000-840-LS <sup>1)</sup>	>80	120	< 3	279.4	125	20	5.7	16
LEP-1000-830-LS <sup>1)</sup>	>80	120	< 3	279.4	125	20	5.7	16
LEP-2000-840-LS <sup>1)</sup>	>80	120	< 3	279.4	125	20	5.7	16
LEP-2000-830-LS <sup>1)</sup>	>80	120	< 3	279.4	125	20	5.7	16

<sup>1)</sup> Modules perfectly matched to OSRAM OPTOTRONIC® electronic control gear (see relevant table). I For current photometric data and important safety, installation and application information go to [www.osram.com/prevald-linear](http://www.osram.com/prevald-linear). All the technical parameters apply to the entire module. In view of the complex manufacturing process for light emitting diodes, the specified typical values for the technical LED parameters are merely statistical values that do not necessarily correspond to the actual technical parameters of an individual product; individual products may vary from the typical values.  
<sup>2)</sup> Tolerance due to LED bin

Product characteristics

- Minimized geometry of the control gear thanks to non-SELV concept
- Automatic detection of the number of LED modules
- OTp 45 DALI LS compatible with 2x2000 lm, 5x1000 lm or 8x630 lm modules
- Module cover with integrated reflector
- T<sub>c</sub> = 65°C
- Lifetime (L80 B50): 50,000 h
- AWG 20 IDC connectors for automatic wiring

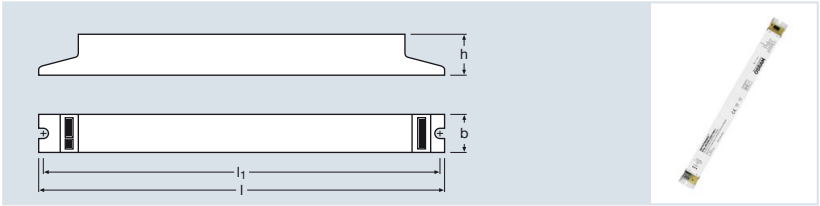
Benefits

- Efficiency: up to 100 lm/W (system), up to 118 lm/W (module)
- Uniform distribution of light thanks to 4.2 mm LED pitches
- Consistent white light < 3 SDCM
- Seamless: no shadows between the modules
- Compact control gear thanks to non-SELV system

Applications

- Offices (workplace lighting, corridors etc.)
- Industry (warehouses, stockrooms, retail outlets, etc.)

# OPTOTRONIC® control gear for PrevaLED® Linear and PrevaLED® Linear Slim



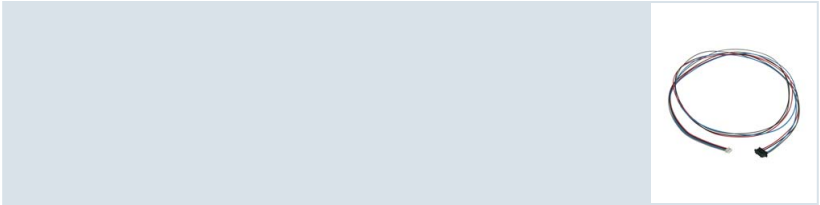
Product reference	Product number	W	CONTROL	T <sub>a</sub>
OTp 40/220-240/700 L	4008321975737	40	-	-20...50
OTp DALI 45/220-240/400 LS <sup>1)</sup>	4008321975751	45	DALI	-20...50
Product reference	l [mm]	b [mm]	h [mm]	
OTp 40/220-240/700 L	360	30	21	20
OTp DALI 45/220-240/400 LS <sup>1)</sup>	360	30	21	20

<sup>1)</sup> PrevaLED® Linear Slim

### Product characteristics

- OTp 40 L compatible with up to 2x2000 lm or 4x1000 lm
- OTp 45 DALI LS compatible with up to 2x2000 lm, 5x1000 lm or 8x630 lm modules
- Power factor 0.9
- Minimized geometry of the control gear

## Accessories for PrevaLED® Linear



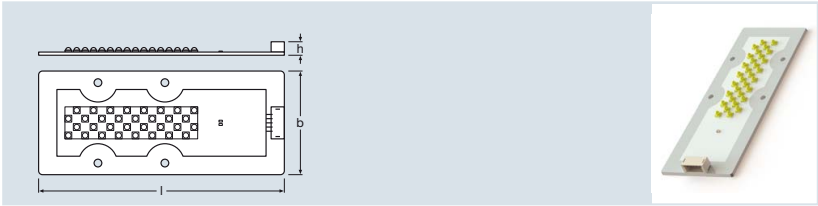
Product reference	Product number	Cable length [mm]	
OTp cable L 800mm <sup>1)</sup>	4008321978967	800	20

<sup>1)</sup> For current data and important safety, installation and application information see [www.osram.com/prevaled-linear](http://www.osram.com/prevaled-linear).

### Product characteristics

- Protected against reverse voltage
- Connects the individual PrevaLED® Linear module to the power supply

# PrevaLED® Compact



Product reference	Product number	W	lm	lm/W	K
LEP-2500-740-CT <sup>1) 2)</sup>	4008321 <b>989017</b>	22	2500	112	4000
LEP-4000-740-CT <sup>1) 2)</sup>	4008321 <b>989093</b>	32	4000	124	4000
LEP-4000-657-CT <sup>1) 2)</sup>	4008321 <b>989109</b>	31	4000	127	5700
LEP-6000-740-CT <sup>1) 2)</sup>	4008321 <b>989116</b>	56	6000	107	4000
LEP-6000-657-CT <sup>1) 2)</sup>	4008321 <b>989123</b>	50	6000	120	5700
Product reference	R <sub>a</sub>	l [mm]	b [mm]	h [mm]	
LEP-2500-740-CT <sup>1) 2)</sup>	70	95	39	8	20
LEP-4000-740-CT <sup>1) 2)</sup>	70	110	46	8	20
LEP-4000-657-CT <sup>1) 2)</sup>	65	110	46	8	20
LEP-6000-740-CT <sup>1) 2)</sup>	70	110	46	8	20
LEP-6000-657-CT <sup>1) 2)</sup>	65	110	46	8	20

<sup>1)</sup> 1100 (even more compact dimensions), 8000 and 10,000 lm, 3000 K and color rendering > 80 in preparation or on request  
<sup>2)</sup> Modules perfectly matched to OSRAM OPTOTRONIC® electronic control gear (see relevant table). I For current photometric data and important safety, installation and application information go to [www.osram.com/prevaled](http://www.osram.com/prevaled). All the technical parameters apply to the entire module. In view of the complex manufacturing process for light emitting diodes, the specified typical values for the technical LED parameters are merely statistical values that do not necessarily correspond to the actual technical parameters of an individual product; individual products may vary from the typical values.

### Product characteristics

- OSRAM is committed to comply with the Zhaga standard for the LED module above
- High lumen packages
- Highly efficient: up to 127 lm/W
- Extremely compact module with Lambertian distribution of light

### Product benefits

- Lower update costs and shorter development times thanks to standardization
- Compact module design for a wide range of applications in a wide variety of luminaire concepts
- Small light emission surface and positioning close to the reflector enables better optical handling
- Enhanced safety thanks to hot restrike (the LED module is automatically switched back on by the ECG after a power outage)
- Dimmable, full instant light, hot restrike and long life open up new applications and reduce lifecycle costs
- No overheating when operated on an appropriate OSRAM ECG thanks to a temperature sensor in the module

### Applications

- Outdoor lighting (streets, spotlights, etc.)
- Industrial lighting
- Uplighters

## OPTOTRONIC® control gear for PrevaLED® Compact

Light engine / control gear combination for PrevaLED® Compact	OT 50/ 220-240/ 700 3DIMLT E	OT 50/ 220-240/ 700 LT E	OT 90/ 220-240/ 700 3DIMLT E	OT 90/ 220-240/ 700 LT E	OT 150/ 220-240/ 700 3DIMLT E	OT 150/ 220-240/ 700 LT E	OT 45/ 220-240/ 700 LTCS	OT 35/ 220-240/ 700 LTCS
LEP-2500-740-CT	●	●	●	●	<sup>1)</sup>	<sup>1)</sup>	●	●
LEP-4000-740-CT	●	●	●	●	<sup>1)</sup>	<sup>1)</sup>	●	●
LEP-4000-657-CT	●	●	●	●	<sup>1)</sup>	<sup>1)</sup>	×	●
LEP-6000-740-CT	×	×	●	●	<sup>1)</sup>	<sup>1)</sup>	×	×
LEP-6000-657-CT	×	×	●	●	<sup>1)</sup>	<sup>1)</sup>	×	×

● Recommended combination  
× Not possible

<sup>1)</sup> In preparation

For technical data on the OPTOTRONIC® units go to pages 9.69 and 9.72

## Four letters that signify the evolution of light

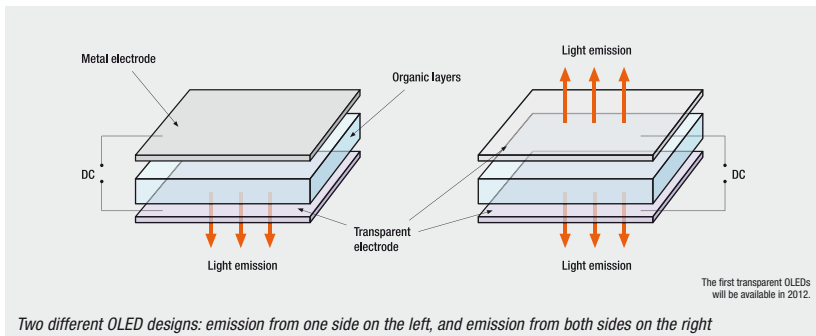


The organic light-emitting diode (OLED) is an innovation that will reshape the future of lighting. This is the opinion of experts and users alike. Thanks to this new technology, additional heat sinks, reflectors, lenses and prisms for interior lighting design will be elements of the past.

OLED components are only around 2 mm thick so they will give designers enormous freedom to create new design objects, high-end luminaires and high-quality furniture. Whether in diffuse or reflective versions, OLED light modules will provide the basis for unique aesthetic applications.

### Structure of an OLED

An organic light-emitting diode consists of several organic semiconductor layers between two electrodes, at least one of which is transparent. The diagram shows two different types of OLEDs: a component emitting on one side only (left) and a transparent component emitting light both upwards and downwards (right). The manufacture of an OLED involves placing organic layers one after the other on a conducting substrate, followed by a conducting electrode. A widely used structure is based on a glass substrate coated with indium tin oxide (ITO) as the transparent anode and a thin non-translucent metal layer as the cathode. The organic stack including the electrodes is generally less than 1  $\mu\text{m}$  thick.



### Outstanding properties of OLED technology

Because of its special properties, OLED technology offers many product benefits that have never before been possible in this combination. They include the following:

- They are glare-free uniform area light sources that have either a mirror-like or milky appearance when they are switched off.
- They are very thin and therefore extremely lightweight.
- They offer good color rendering and high-quality instant-on light.
- Their warm white light color creates a very pleasant atmosphere.
- They have the potential to match and even surpass the efficiency and lifetime of fluorescent lamps, and are completely mercury-free and RoHS compliant.
- They do not emit any UV or IR radiation and are therefore ideal for illuminating particularly sensitive objects.
- Future products based on OLED technology could be malleable or flexible.

### Applications of OLED technology

Thanks to their aesthetic appearance and high-quality light, OLEDs are now being used above all in applications where design and atmosphere are the major factors. OLED light modules have already been used successfully in designer luminaires and in shop lighting. The technology is also perfect for all kinds of decorative and mood lighting, and for applications that call for embedded light in furniture and in the office, hospitality and museum lighting sectors.

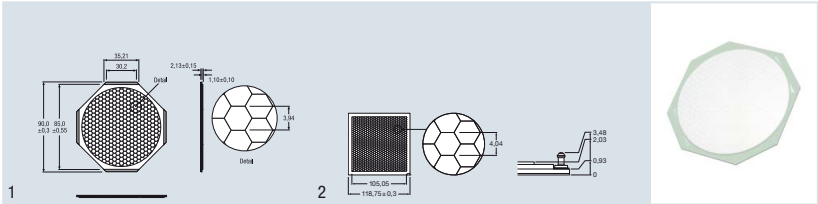
With ORBEOS, OSRAM has launched the world's first serialproduction OLED light source. As a leader in lighting innovation, and continuing to build on this technological success, the company's unique pilot production line and substantial investments in research and development will assure the advancement of OLED technology. OLED modules from OSRAM are a compelling way to provide light and will become a lasting element in lighting design for future generations.



*OSRAM OLED Airabesc design luminaire, awarded with the reddot Product Design Award 2011 as well as the GOOD Design Award 2011 and the Interior Innovation Award 2012.*

[www.osram.com/oled](http://www.osram.com/oled)

OLED components



Product reference	Product number	BIN	V	A	cd/cm <sup>2</sup>
ORBEOS CDW-030 <sup>1)</sup>	2)	41-43	6.3	0.11	2000
ORBEOS SDW-058 <sup>1)</sup>	2)	41-43	6.3	0.26	2000

Product reference	Im	Ra	K	COLOR	lm/W	No.
ORBEOS CDW-030 <sup>1)</sup>	28	80	3300	warm	40	1
ORBEOS SDW-058 <sup>1)</sup>	67	80	3300	warm	40	2

1) All the technical parameters apply to the entire component. In view of the complex manufacturing process for organic light emitting diodes, the specified typical values for the technical OLED parameters are merely statistical values that do not necessarily correspond to the actual technical parameters of an individual product; individual products may vary from the typical values. For more information please refer to [www.osram.com/oled](http://www.osram.com/oled).  
2) Data not available at time of going to press

Product characteristics

- Diffuse, glare-free area light source
- High luminous efficacy
- Low DC voltage
- Mercury-free and RoHS compliant

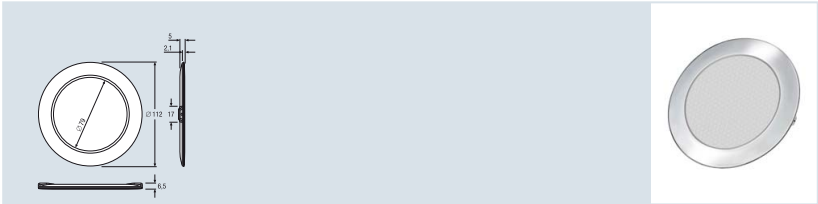
Product benefits

- High-quality warm white light for high-end applications
- Thin, lightweight and aesthetic design
- Ideal for filgree lighting applications as additional thermal management is not required

Applications

- Object illumination and integration in furniture
- Mood lighting
- Shop lighting
- Architainment

OLED module



<b>Product reference</b>	<b>Product number</b>	<b>BIN</b>	<b>V</b>	<b>A</b>	<b>cd/cm²</b>
ORBEOS DANCE <sup>1)</sup>	4008321 <b>981097</b>	25-33	3.7	0.27	900
<b>Product reference</b>	<b>lm</b>	<b>R<sub>a</sub></b>	<b>K</b>	<b>COLOR</b>	<b>lm/W</b>
ORBEOS DANCE <sup>1)</sup>	13	85	2900	Warm white	14

1) All the technical parameters apply to the entire component. In view of the complex manufacturing process for organic light emitting diodes, the specified typical values for the technical OLED parameters are merely statistical values that do not necessarily correspond to the actual technical parameters of an individual product; individual products may vary from the typical values. For more information please refer to [www.osram.com/oled](http://www.osram.com/oled).

Product characteristics

- Glare-free warm white area light source with a reflective surface
- Stylish low-profile design in a round form with high-quality synthetic ring with metallic look
- Mercury-free and RoHS compliant

Product benefits

- Plug-&-play installation and easy replacement possible
- Rotatable installation enables complex designs
- High-quality ambient lighting thanks to high-quality light and good color rendering
- No UV or IR radiation, therefore ideal for illuminating sensitive items

Applications

- Home applications in designer luminaires, furniture and home accessories
- Eye catcher, design element and mood light for shops
- Can be used in the office sector as desk lights, for reception counters and as desktop accessories