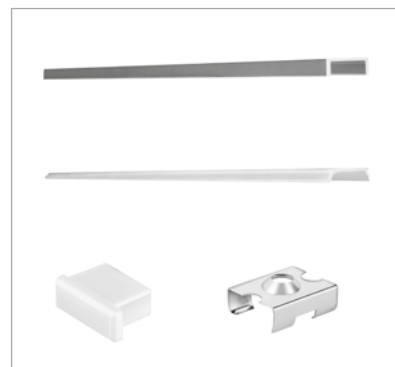
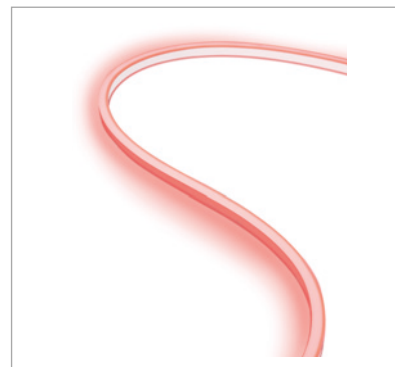




NEW!
LINEARLIGHT FLEX®
DIFFUSE AND
LINEARLIGHT FLEX®
RANGE FOR
SHOP LIGHTING



LEDVANCE

LEDVANCE.COM

Products of OSRAM GmbH,
distributed by LEDVANCE

Light is freedom of design

LINEARlight: Flexible complete systems for applications ranging from general illumination to decorative presentations

Light is OSRAM

OSRAM

Customized light for sophisticated tasks



"Re-Generationenhaus", Brandenburg/Havel, Germany

LINEARlight LED modules are the best choice when it comes to economic and design-oriented solutions for a broad range of possible lighting requirements and interior designs. To name just a few potential application areas: Shops can present their goods in the right light with cabinet and shelf lighting. Offices can find options for orientation lighting in corridors or general illumination in conference rooms. Hotel and hospitality businesses can illuminate corridors and conference zones, create the right atmosphere in ballrooms, provide soft indirect cove lighting in the guest rooms or simply shape a lasting colorful guest experience in restaurant and bar areas. LINEARlight LED modules can even be used in outdoor areas: Our outdoor modules accentuate façades with elegant lighting effects. Using LINEARlight Flex® LED modules, homogeneous and flexible lines of light are easily integrated into architecture, furniture or any other object.

Cover image: Design study flexible luminaire, OSRAM



SGL Carbon, Wiesbaden, Germany

In comparison to standard luminaires and T5 fluorescent tubes, the complete LINEARlight product range offers important advantages.

- **Low maintenance effort**
Highly durable LEDs with comparable efficiency
- **Convenient lighting solutions**
Plug & play and future-safe solutions thanks to LED technology and modular design
- **Optimum illumination level**
Also ideal for installations that are difficult to access or offer only little room
- **Durable technology**
Many flexible LED strips that are suitable for outdoor applications with a protection rating up to IP67
- **Scalable 24 V system**
Less driver complexity in comparison to T5 installations
- **More freedom of design in comparison to luminaires**
No separate driver required per LED module, expandable due to modular system design
- **Improved display and accentuation lighting**
Directional light via optics, no shadowing with rigid LED modules as it may occur with T5 fluorescent tubes
- **Wide application range**
LED modules with different shades of white light for general illumination and RGB versions for decorative lighting
- **Simple installation**
Safe due to 24 V, ready for connection
- **Wide range of accessories**
Combine dedicated aluminum profiles with fitting covers and other accessories

Features and benefits

- Up to 3 850 lm/m
- Tunable white (from warm to cold white), monochromatic and RGB
- Matching systems with suitable 24 V drivers
- Dimmable
- With or without IP protection
- Various lengths possible
- Wide range of accessories

LINEARlight Flex®



Rigid LINEARlight modules



INDIVIDUAL
CONFIGURATION
ACCORDING TO
MODULAR
PRINCIPLE

LINEARlight Flex®: Versatile use for brilliant lighting

LINEARlight Flex® LED modules help you create the desired lighting atmosphere in a building, set decorative accents or highlight products. The bendable and cuttable LINEARlight Flex® LED modules are easy to adjust and blend harmoniously into the architecture. They may draw attention to the bar, upgrade handrails to elegant orientation lights and guide customers to the right products in a shelf. When integrated into the architecture, they highlight the façade, create decorative lines of light or provide indirect cove lighting.

Common characteristics

- Flexible, cuttable LED strip
- Seamless light without shadowing
- Fine White Binning (3SDCM)
- Dimmable (PWM)
- Self-adhesive back for easy mounting
- Flexessories® – dedicated accessories for Flex modules – for quick installation and homogeneous light distribution
- 24V technology for easy dimensioning
- Recommended in system use with OPTOTRONIC® LED drivers
- Lifespan of up to 60 000 h (L70B50)
- 5-year guarantee*

LINEARlight Flex®

- Luminous flux of up to 3 850 lm/m



LINEARlight Flex®

LINEARlight Flex® Protect

- Minimalistic white design with hidden electronics
- IP67 protection rating
- High-performance silicone for extremely long lifespan and bendability
- Highly UV-resistant
- Salt-mist-proof
- Simple contacting due to pre-assembled connector
- Luminous flux of up to 3 000 lm/m



LINEARlight Flex® Protect

LINEARlight Flex® Diffuse

- Diffused light lines without visible spots
- IP67 protection with high-performance silicone
- Outdoor use possible: UV-resistant and salt-mist-proof
- Long operational length per single power feed possible (up to 6 m)
- Increased reliability due to single-piece reel-to-reel technology



LINEARlight Flex® Diffuse

VALUE Flex®

for private and semi-professional applications

- Simple contacting due to pre-assembled wires
- Many models with IP66 protection rating
- Fine White Binning (4SDCM)
- Lifespan of up to 35 000 h (L70B50)
- 3-year guarantee*



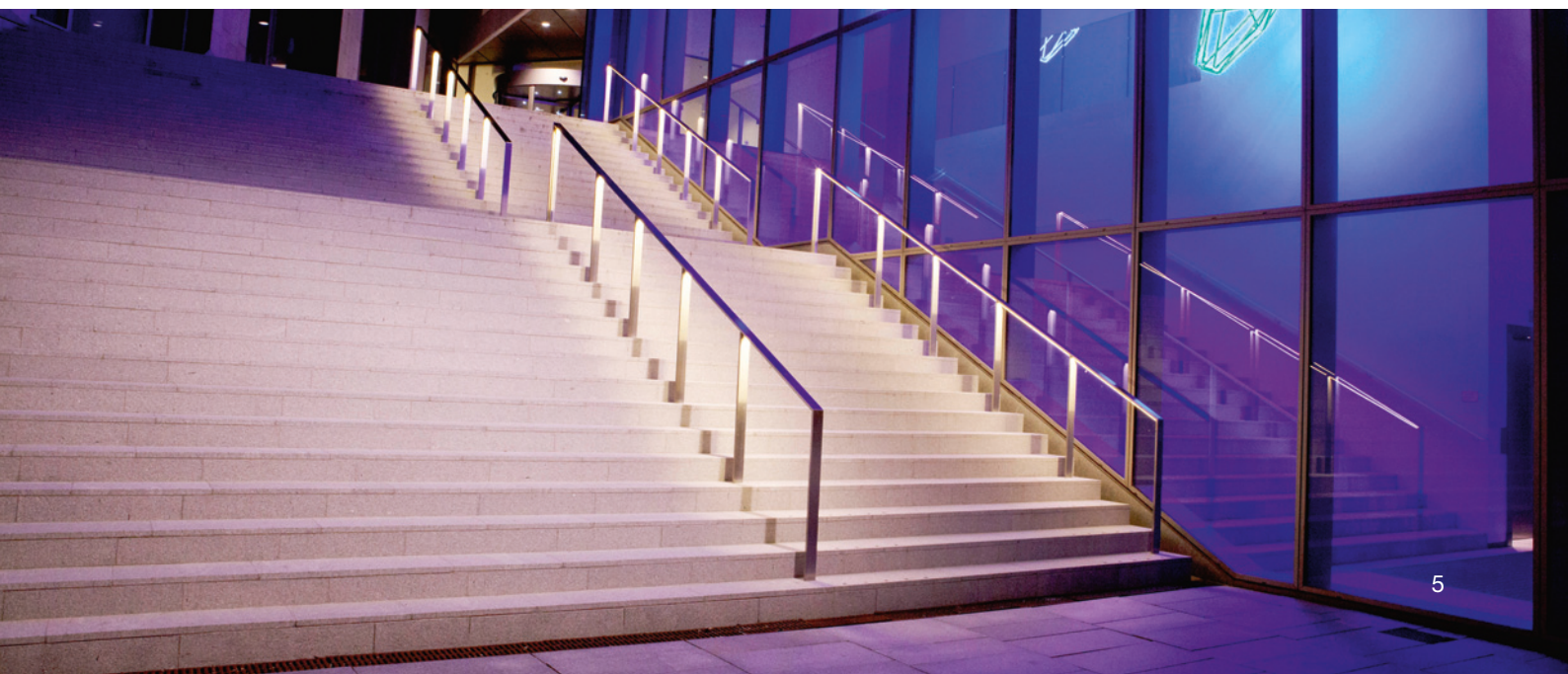
VALUE Flex®

Easy installation using Flexessories® (see compatibility table, page 14)



Together with OSRAM LED drivers, flexible LED modules from OSRAM make a perfect system match.

* For conditions and detailed information, see www.osram.com/guarantee.



LED drivers

OPTOTRONIC®

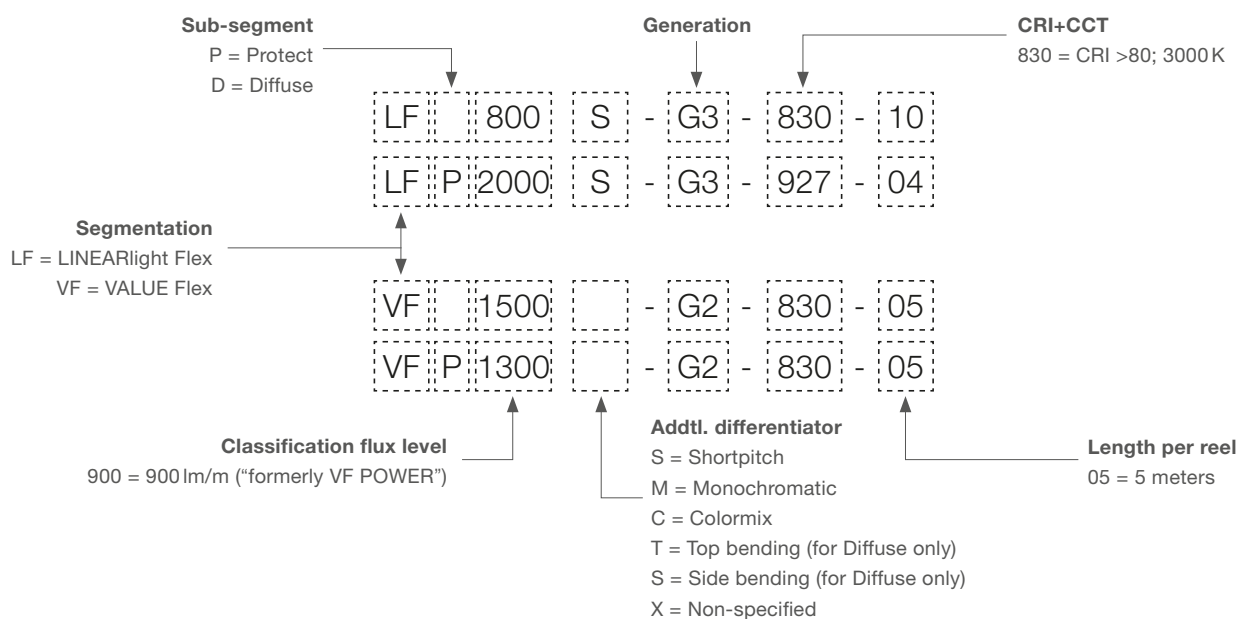
Product reference	Product number (EAN)	Interface for dimming	IP	Interface
OPTOTRONIC OT 6/200-240/24 CE	4008321113269		IP65	
OPTOTRONIC OT 8/200-240/24	4008321040169		IP20	
OPTOTRONIC OT 20/220-240/24	4050300618111		IP20	
OPTOTRONIC OT 30/220-240/24 P	4052899043497		IP66	
OPTOTRONIC OT 50/220-240/24	4052899905566		IP20	
OPTOTRONIC OT 50/220...240/24 P	4052899043510		IP66	
OPTOTRONIC OT 75/220-240/24	4050300817477		IP20	
OPTOTRONIC OT 75/220-240/24 E	4008321362476		IP64	
OPTOTRONIC OT 80/220-240/24 P	4008321981684		IP67	
OPTOTRONIC OT 120/220-240/24 P	4008321981707		IP67	
OPTOTRONIC OT 240/220-240/24 P	4008321981721		IP67	
OPTOTRONIC OT EASY 80	4008321808363	■	IP20	EASY
OPTOTRONIC OTi DALI 75/220-240/24 1-4 CH	4008321371560	■	IP20	DALI
OPTOTRONIC OTi DALI 50/220-240/24 TW ¹⁾	4052899490772	■	IP20	DALI
OPTOTRONIC OTi DALI 80/220-240/24 TW ¹⁾	4052899490758	■	IP20	DALI
OPTOTRONIC OT 80/220-240/24 DIM P	4008321981677	■	IP67	1-10 V
OPTOTRONIC OT 120/220-240/24 DIM P	4008321981691	■	IP67	1-10 V
OPTOTRONIC OT 240/220-240/24 DIM P	4008321981714	■	IP67	1-10 V
ELEMENT 30/220...240/24	4052899463776		IP20	
ELEMENT 60/220...240/24	4052899463790		IP20	
ELEMENT 90/220...240/24	4052899463813		IP20	

1) Expected to be available from July 2017

Flexible LINEARlight LED modules

Naming systematic

Learn about the logic behind the product reference code. This naming systematic is valid for all product launches 2016/2017 onwards and will be adapted for existing products in the course of updating.



LINEARlight Flex® Diffuse – the new integration-ready diffused light

Product reference	Product number (EAN)	COLOR	K	λ	V	W METER	lm METER	lm/W		L [mm]	I min. [mm]	W [mm]	h [mm]	 *
Top bending (LFD400T, LFD400MT)														
LFD400T-G1-827-06	4052899953512	White	2700 K		24	7.2	490	68	60	6000	50	14.1	10	A+
LFD400T-G1-830-06	4052899953529	White	3000 K		24	7.2	490	68	60	6000	50	14.1	10	A+
LFD400T-G1-840-06	4052899953536	White	4000 K		24	7.2	480	67	60	6000	50	14.1	10	A+
LFD400T-G1-865-06	4052899953543	White	6500 K		24	7.2	460	64	60	6000	50	14.1	10	A+
LFD400MT-G1-BL-06	4052899953550	Blue	457-467		24	12.0	60	5	60	6000	40	14.1	10	-
LFD400MT-G1-GR-06	4052899953567	Green	525-539		24	12.0	285	24	60	6000	40	14.1	10	-
LFD400MT-G1-GR-03	4052899450851	Green	525-539		24	12.0	285	24	30	3000	40	14.1	10	-
LFD400MT-G1-RE-06	4052899953574	Red	612-626		24	12.0	320	27	60	6000	40	14.1	10	-
LFD400MT-G1-YE-06	4052899953581	Yellow	586-594		24	12.0	162	14	60	6000	40	14.1	10	-
LFD400MT-G1-OR-06	4052899953598	Orange	603-611		24	12.0	175	15	60	6000	40	14.1	10	-

Side bending (LFD400S, LFD400MS)														
LFD400S-G1-827-06	4052899953611	White	2700 K		24	7.2	410	57	60	6000	50	10	14.1	A+
LFD400S-G1-830-06	4052899953628	White	3000 K		24	7.2	410	57	60	6000	50	10	14.1	A+
LFD400S-G1-840-06	4052899953635	White	4000 K		24	7.2	410	57	60	6000	50	10	14.1	A+
LFD400S-G1-865-06	4052899953642	White	6500 K		24	7.2	350	52	60	6000	50	10	14.1	A
LFD400MS-G1-BL-06	4052899953659	Blue	457-467		24	12.0	55	5	60	6000	40	10	14.1	-
LFD400MS-G1-GR-06	4052899953666	Green	525-539		24	12.0	260	22	60	6000	40	10	14.1	-
LFD400MS-G1-GR-03	4052899450882	Green	525-539		24	12.0	260	22	30	3000	40	10	14.1	-
LFD400MS-G1-RE-06	4052899953673	Red	612-626		24	12.0	240	20	60	6000	40	10	14.1	-
LFD400MS-G1-YE-06	4052899953680	Yellow	586-594		24	12.0	150	13	60	6000	40	10	14.1	-
LFD400MS-G1-OR-06	4052899953697	Orange	603-611		24	12.0	160	13	60	6000	40	10	14.1	-

LINEARlight Flex®

Product reference	Product number (EAN)	COLOR	K	V	W METER	lm METER	lm/W		L [mm]	I min. [mm]	W [mm]	h [mm]	 *
Power (LF4000)													
LF4000-G3-827-03	4052899952867	White	2700	24	28.9	3750	130	70	3000	100	8	1.4	A+
LF4000-G3-830-03	4052899952874	White	3000	24	28.9	3750	130	70	3000	100	8	1.4	A+
LF4000-G3-840-03	4052899952881	White	4000	24	28.9	3850	133	70	3000	100	8	1.4	A+
LF4000-G3-850-03	4052899952898	White	5000	24	28.9	3850	133	70	3000	100	8	1.4	A+
LF4000-G3-865-03	4052899952904	White	6500	24	28.9	3850	133	70	3000	100	8	1.4	A+
Power (LF3000)													
LF3000-G3-820-03	4052899952911	White	2000	24	28.9	2500	87	70	3000	100	8	1.4	A
LF3000-G3-824-03	4052899952928	White	2400	24	28.9	3000	104	70	3000	100	8	1.4	A+
LF3000-G3-827-03	4052899952935	White	2700	24	23.7	3000	127	70	3000	100	8	1.4	A+
LF3000-G3-830-03	4052899952942	White	3000	24	23.7	3000	127	70	3000	100	8	1.4	A+
LF3000-G3-840-03	4052899952959	White	4000	24	21.8	3000	138	70	3000	100	8	1.4	A++
LF3000-G3-850-03	4052899952966	White	5000	24	21.8	3000	138	70	3000	100	8	1.4	A++
LF3000-G3-865-03	4052899952973	White	6500	24	21.8	3000	138	70	3000	100	8	1.4	A++
LF3000-G3-927-03	4052899963948	White	2700	24	28.9	2700	93	70	3000	100	8	1.4	A+
LF3000-G3-930-03	4052899963955	White	3000	24	28.9	3000	104	70	3000	100	8	1.4	A+
LF3000-G3-940-03	4052899963962	White	4000	24	26.5	3000	113	70	3000	100	8	1.4	A+

CRI 90

CRI 90

CRI 90

*Based on measurements of a 500 mm module

Due to the complex manufacturing process of light-emitting diodes, the above-specified typical values of the technical LED parameters merely represent purely statistical variables. They do not necessarily correspond to the actual technical parameters of each individual product, which may deviate from typical values.

LINEARlight Flex®

Product reference	Product number (EAN)	COLOR	K	V	W METER	lm METER	lm/W	 METER	 (mm)	 min. (mm)	 (mm)	 h (mm)	 *
Power (LF2000)													
LF2000-G3-820-04	4052899952980	White	2000	24	17.9	1650	92	70	4500	100	8	1.4	A+
LF2000-G3-824-04	4052899952997	White	2400	24	17.9	2000	112	70	4500	100	8	1.4	A+
LF2000-G3-827-04	4052899953000	White	2700	24	15	2000	134	70	4500	100	8	1.4	A++
LF2000-G3-830-04	4052899953017	White	3000	24	15	2000	134	70	4500	100	8	1.4	A++
LF2000-G3-840-04	4052899953024	White	4000	24	13.6	2000	147	70	4500	100	8	1.4	A++
LF2000-G3-850-04	4052899953031	White	5000	24	13.6	2000	147	70	4500	100	8	1.4	A++
LF2000-G3-865-04	4052899953048	White	6500	24	13.6	2000	147	70	4500	100	8	1.4	A++
CRI 90 LF2000-G3-927-04	4052899963993	White	2700	24	17.9	1800	101	70	4500	100	8	1.4	A+
CRI 90 LF2000-G3-930-04	4052899964006	White	3000	24	17.9	2000	112	70	4500	100	8	1.4	A+
CRI 90 LF2000-G3-940-04	4052899964013	White	4000	24	16.3	2000	123	70	4500	100	8	1.4	A+
Power (LF1200)													
LF1200-G3-820-09	4052899953055	White	2000	24	10.6	1000	94	70	9000	100	8	1.4	A+
LF1200-G3-824-09	4052899953062	White	2400	24	10.6	1200	113	70	9000	100	8	1.4	A+
LF1200-G3-827-09	4052899953079	White	2700	24	8.9	1200	135	70	9000	100	8	1.4	A++
LF1200-G3-830-09	4052899953086	White	3000	24	8.9	1200	135	70	9000	100	8	1.4	A++
LF1200-G3-840-09	4052899953093	White	4000	24	8.1	1200	147	70	9000	100	8	1.4	A++
LF1200-G3-850-09	4052899953291	White	5000	24	8.1	1200	147	70	9000	100	8	1.4	A++
LF1200-G3-865-09	4052899953314	White	6500	24	8.1	1200	147	70	9000	100	8	1.4	A++
CRI 90 LF1200-G3-927-09	4052899953321	White	2700	24	10.6	1100	103	70	9000	100	8	1.4	A+
CRI 90 LF1200-G3-930-09	4052899953338	White	3000	24	10.6	1200	113	70	9000	100	8	1.4	A+
CRI 90 LF1200-G3-940-09	4052899953345	White	4000	24	10.0	1200	120	70	9000	100	8	1.4	A+
Power Tunable White (LFxxxx-TW)													
Set the right color temperature of white light to simulate natural daylight.													
LF4000TW-G3-82765-02	4052899953260	Dynamic	2700-6500	24	36.8	3800	103	160	2100	75	8	1.45	A+
LF3000TW-G3-82765-03	4052899953277	Dynamic	2700-6500	24	30	3000	100	160	3000	75	8	1.45	A+
LF2000TW-G3-82765-04	4052899953284	Dynamic	2700-6500	24	18.5	2000	108	160	4500	75	8	1.45	A+
LF1200TW-G3-82765-09	4052899953161	Dynamic	2700-6500	24	10.5	1200	114	160	9000	75	8	1.45	A+

*Based on measurements of a 500 mm module

Due to the complex manufacturing process of light-emitting diodes, the above-specified typical values of the technical LED parameters merely represent purely statistical variables. They do not necessarily correspond to the actual technical parameters of each individual product, which may deviate from typical values.

LINEARlight Flex®

Product reference	Product number (EAN)	COLOR	K, λ	V	W METER	lm METER	lm/W	 METER	 (mm)	 min. (mm)	 w (mm)	 h (mm)	 *
Shortpitch (LF800S)													
LF800S-G3-824-10	4052899953109	White	2400 K	24	8.9	800	90	120	10000	50	8	2.1	A+
LF800S-G3-827-10	4052899953116	White	2700 K	24	8.9	800	90	120	10000	50	8	2.1	A+
LF800S-G3-830-10	4052899953123	White	3000 K	24	8.3	800	96	120	10000	50	8	2.1	A+
LF800S-G3-840-10	4052899953130	White	4000 K	24	8.6	850	99	120	10000	50	8	2.1	A+
LF800S-G3-850-10	4052899953147	White	5000 K	24	8.6	850	99	120	10000	50	8	2.1	A+
LF800S-G3-865-10	4052899953154	White	6500 K	24	8.6	850	99	120	10000	50	8	2.1	A+
Advanced (LF06A)													
LF06A-W3F-824	4052899942783	White	2400 K	24	4.5	380	84	60	10000	100	8	2.1	A+
LF06A-W3F-827	4008321973986	White	2700 K	24	4.8	390	81	60	10000	100	8	2.1	A+
LF06A-W3F-830	4008321973993	White	3000 K	24	4.8	390	81	60	10000	100	8	2.1	A+
LF06A-W3F-840	4008321974006	White	4000 K	24	4.8	425	88	60	10000	100	8	2.1	A+
LF06A-W3F-850	4008321974013	White	5000 K	24	4.8	425	88	60	10000	100	8	2.1	A+
LF06A-W3F-865	4008321974020	White	6500 K	24	4.8	425	88	60	10000	100	8	2.1	A+
Advanced (LF05A2)													
LF05A2-B3	4052899924123	Blue	467	24	7.2	80	11	50	10000	100	8	2.4	-
LF05A2-R3	4052899924086	Red	625	24	8.3	120	14	50	10000	100	8	2.4	-
LF05A2-T3	4052899924116	Green	525	24	4.9	180	37	50	10000	100	8	2.4	-
LF05A2-Y3	4052899924109	Yellow	587	24	8.3	110	13	50	10000	100	8	2.4	-
LF05A2-O3	4052899924093	Orange	602	24	8.3	130	16	50	10000	100	8	2.4	-
Eco (LF05E2, LF05E)													
LF05E2-W2F-824	4052899942790	White	2400 K	24	3.0	220	73	50	10000	100	8	2.5	A+
LF05E2-W2F-827	4008321971357	White	2700 K	24	3.6	205	57	50	10000	100	8	2.5	A+
LF05E2-W2F-830	4052899928435	White	3000 K	24	3.6	220	61	50	10000	100	8	2.5	A+
LF05E2-W2F-840	4052899928442	White	4000 K	24	3.6	240	67	50	10000	100	8	2.5	A+
LF05E2-W2F-865	4008321971418	White	6500 K	24	3.6	220	61	50	10000	100	8	2.5	A+
LF05E-B2	4008321955425	Blue	470	24	4.1	40	10	33	6000	150	8	2.5	-
LF05E-R1	4008321955418	Red	625	24	6.0	80	13	33	6000	150	8	2.5	-
LF05E-T2	4008321955449	Green	525	24	4.1	120	29	33	6000	150	8	2.5	-
LF05E-Y1	4008321955432	Yellow	587	24	6.0	75	13	33	6000	150	8	2.5	-
Colormix (LF05CA2, LF05CE)													
LF05CA2-RGB3	4008321851536	RGB	625/525/467	24	18.0	470	26	50	4000	100	8	2.2	-
LF05CE-RGB1	4008321593375	RGB	625/525/467	24	6.5	180	28	33	6000	150	8	2.2	-

*Based on measurements of a 500 mm module

Due to the complex manufacturing process of light-emitting diodes, the above-specified typical values of the technical LED parameters merely represent purely statistical variables. They do not necessarily correspond to the actual technical parameters of each individual product, which may deviate from typical values.

LINEARlight Flex® Protect with IP67 protection rating

Product reference	Product number (EAN)	COLOR	K	V	W METER	Im METER	Im/W							*
Protect Power (LFP3000)														
LFP3000-G3-824-03 ¹⁾	4052899481299	White	2400	24	28.9	2800	97	70	3000	100	11	3.7	A+	
LFP3000-G3-827-03 ¹⁾	4052899481312	White	2700	24	28.9	3000	104	70	3000	100	11	3.7	A+	
LFP3000-G3-830-03 ¹⁾	4052899481336	White	3000	24	28.9	3000	104	70	3000	100	11	3.7	A+	
LFP3000-G3-840-03 ¹⁾	4052899481350	White	4000	24	23.7	3000	127	70	3000	100	11	3.7	A+	
LFP3000-G3-860-03 ¹⁾	4052899481374	White	6000	24	21.8	2800	128	70	3000	100	11	3.7	A+	
CRI 90 LFP3000-G3-930-03 ¹⁾	4052899481398	White	3300	24	28.9	2850	99	70	3000	100	11	3.7	A++	
CRI 90 LFP3000-G3-940-03 ¹⁾	4052899481411	White	3800	24	28.9	3000	104	70	3000	100	11	3.7	A+	
CRI 90 LFP3000-G3-960-03 ¹⁾	4052899481435	White	5800	24	26.5	3000	113	70	3000	100	11	3.7	A+	
Protect Power (LFP2000)														
LFP2000-G3-824-04 ¹⁾	4052899481138	White	2400	24	17.9	1800	101	70	4500	100	11	3.7	A+	
LFP2000-G3-827-04 ¹⁾	4052899481152	White	2700	24	17.9	1900	106	70	4500	100	11	3.7	A+	
LFP2000-G3-830-04 ¹⁾	4052899481176	White	3000	24	17.9	1900	106	70	4500	100	11	3.7	A+	
LFP2000-G3-840-04 ¹⁾	4052899481190	White	4000	24	15	1900	127	70	4500	100	11	3.7	A++	
LFP2000-G3-860-04 ¹⁾	4052899481213	White	6000	24	13.6	1800	132	70	4500	100	11	3.7	A++	
CRI 90 LFP2000-G3-930-04 ¹⁾	4052899481237	White	3300	24	17.9	1800	101	70	4500	100	11	3.7	A+	
CRI 90 LFP2000-G3-940-04 ¹⁾	4052899481251	White	3800	24	17.9	1900	106	70	4500	100	11	3.7	A+	
CRI 90 LFP2000-G3-960-04 ¹⁾	4052899481275	White	5800	24	16.3	1900	117	70	4500	100	11	3.7	A+	
Protect Power (LFP1200)														
LFP1200-G3-824-09 ¹⁾	4052899481640	White	2400	24	10.6	1100	104	70	9000	100	11	3.7	A+	
LFP1200-G3-827-09 ¹⁾	4052899481626	White	2700	24	10.6	1150	108	70	9000	100	11	3.7	A+	
LFP1200-G3-830-09 ¹⁾	4052899481664	White	3000	24	10.6	1200	113	70	9000	100	11	3.7	A+	
LFP1200-G3-840-09 ¹⁾	4052899481688	White	4000	24	8.9	1200	135	70	9000	100	11	3.7	A++	
LFP1200-G3-860-09 ²⁾	4052899481701	White	6000	24	8.1	1100	135	70	9000	100	11	3.7	A++	
CRI 90 LFP1200-G3-930-09 ²⁾	4052899481725	White	3300	24	10.6	1100	104	70	9000	100	11	3.7	A+	
CRI 90 LFP1200-G3-940-09 ²⁾	4052899481749	White	3800	24	10.6	1200	113	70	9000	100	11	3.7	A+	
CRI 90 LFP1200-G3-960-09 ²⁾	4052899481763	White	5800	24	10	1200	120	70	9000	100	11	3.7	A++	
Protect Power (LFP800)														
LFP800-G3-824-09 ¹⁾	4052899481565	White	2400	24	7.6	800	106	70	9000	100	11	3.7	A+	
LFP800-G3-827-09 ¹⁾	4052899481589	White	2700	24	7.1	800	113	70	9000	100	11	3.7	A++	

* Based on measurements of a 500 mm module 1) Expected to be available from May 2017 2) Expected to be available from July 2017

Due to the complex manufacturing process of light-emitting diodes, the above-specified typical values of the technical LED parameters merely represent purely statistical variables. They do not necessarily correspond to the actual technical parameters of each individual product, which may deviate from typical values.

LINEARlight Flex® Protect with IP67 protection rating

Product reference	Product number (EAN)	COLOR	K, λ	V	W METER	lm METER	lm/W		L [mm]	I min. [mm]	W [mm]	h [mm]	 *
Protect Shortpitch (LFP800S)													
LFP800S-G3-830-10	4052899953352	White	3000 K	24	8.3	760	92	120	10000	50	11	3.7	A+
LFP800S-G3-840-10	4052899953369	White	4000 K	24	7.7	760	99	120	10000	50	11	3.7	A+
LFP800S-G3-856-10	4052899953376	White	5600 K	24	8.3	810	98	120	10000	50	11	3.7	A+
LFP800S-G3-880-10	4052899953383	White	8000 K	24	8.3	810	98	120	10000	50	11	3.7	A+
Protect Advanced (LF06A-P)													
LF06A-W3F-830-P	4008321789983	White	3000 K	24	5.0	350	70	60	10000	100	11	3.7	A+
LF06A-W3F-840-P	4008321790125	White	4000 K	24	5.0	390	78	60	10000	100	11	3.7	A+
LF06A-W3F-870-P	4008321790149	White	7000 K	24	5.0	390	78	60	10000	100	11	3.7	A+
LF05A-B3-P	4008321617804	Blue	467	24	7.3	85	-	50	9900	100	11	4.5	-
Protect Eco (LF06E-P/LF05E-P)													
LF06E-830-P ¹⁾	4052899475724	White	3000 K	24	2.0	200	100	60	10000	100	11	3.7	A
LF06E-840-P ¹⁾	4052899475809	White	4000 K	24	2.0	200	100	60	10000	100	11	3.7	A
LF06E-880-P ¹⁾	4052899475847	White	8000 K	24	2.0	190	95	60	10000	100	11	3.7	A
LF05E-B2-P	4008321616913	Blue	467	24	4.1	40	-	33	6000	150	11	4.5	-
LF05E-R1-P	4008321616937	Red	625	24	6.0	80	-	33	6000	150	11	4.5	-
LF05E-T2-P	4008321616951	Green	522	24	4.1	120	-	33	6000	150	11	4.5	-
LF05E-Y1-P	4008321616975	Yellow	587	24	6.0	75	-	33	6000	150	11	4.5	-
Protect Colormix (LF05CA-P, LF05CE-P)													
LF05CA-RGB3-P	4008321977205	RGB	625/525/467	24	18.0	435	-	50	4000	100	11	4.5	-
LF05CE-RGB1-P	4008321977182	RGB	625/525/467	24	6.5	180	-	33	6000	150	11	4.5	-

* Based on measurements of a 500 mm module 1) Expected to be available from July 2017

Due to the complex manufacturing process of light-emitting diodes, the above-specified typical values of the technical LED parameters merely represent purely statistical variables. They do not necessarily correspond to the actual technical parameters of each individual product, which may deviate from typical values.

VALUE Flex®

Product reference	Product number (EAN)	COLOR	K	V	W METER	Im METER	Im/W		I [mm]	I min. [mm]	w [mm]	h [mm]	 *
VALUE Flex (VF1500)													
VF1500-G1-827-05	4052899316546	White	2700	24	16.7	1500	90	44	4990	138.33	8	1.8	A+
VF1500-G1-830-05	4052899316560	White	3000	24	16.7	1500	90	44	4990	138.33	8	1.8	A+
VF1500-G1-840-05	4052899316584	White	4000	24	16.7	1650	99	44	4990	138.33	8	1.8	A+
VF1500-G1-865-05	4052899316607	White	6500	24	16.7	1650	99	44	4990	138.33	8	1.8	A+
VALUE Flex (VF900)													
VF900-G2-827-05	4052899316379	White	2700	24	12.2	950	78	54	4945	109	8	1.8	A+
VF900-G2-830-05	4052899316409	White	3000	24	12.2	950	78	54	4945	109	8	1.8	A+
VF900-G2-840-05	4052899316423	White	4000	24	12.2	1100	90	54	4945	109	8	1.8	A+
VF900-G2-865-05	4052899316447	White	6500	24	12.2	1100	90	54	4945	109	8	1.8	A+
VALUE Flex (VF600)													
VF600-G2-827-06	4052899316706	White	2700	24	7.7	600	78	36	5998	166	8	1.8	A+
VF600-G2-830-06	4052899316720	White	3000	24	7.7	600	78	36	5998	166	8	1.8	A+
VF600-G2-840-06	4052899316744	White	4000	24	7.7	700	91	36	5998	166	8	1.8	A+
VF600-G2-865-06	4052899316768	White	6500	24	7.7	700	91	36	5998	166	8	1.8	A+
VALUE Flex Eco (VFEG1)													
VFEG1-FLX-300-827-10000-DC	4052899085176	White	2700	24	4.2	300	72	42	9939	144	8	1.7	A++
VFEG1-FLX-300-830-10000-DC	4052899085275	White	3000	24	4.2	330	80	42	9939	144	8	1.7	A++
VFEG1-FLX-300-865-10000-DC	4052899085350	White	6500	24	4.2	340	82	42	9939	144	8	1.7	A++

VALUE Flex® IP with IP66 protection rating

Product reference	Product number (EAN)	COLOR	K	V	W METER	Im METER	Im/W		I [mm]	I min. [mm]	w [mm]	h [mm]	 *
VALUE Flex Protect (VFP1300)													
VFP1300-G1-827-05	4052899316621	White	2700	24	16.7	1300	78	44	5010	138.33	12	5.8	A
VFP1300-G1-830-05	4052899316645	White	3000	24	16.7	1300	78	44	5010	138.33	12	5.8	A
VFP1300-G1-840-05	4052899316669	White	4000	24	16.7	1400	84	44	5010	138.33	12	5.8	A+
VFP1300-G1-865-05	4052899316683	White	6500	24	16.7	1400	84	44	5010	138.33	12	5.8	A+
VALUE Flex Protect (VFP900)													
VFP900-G2-827-05	4052899316461	White	2700	24	12.2	850	69	55	4965	109	12	5.8	A
VFP900-G2-830-05	4052899316485	White	3000	24	12.2	850	69	55	4965	109	12	5.8	A
VFP900-G2-840-05	4052899316508	White	4000	24	12.2	900	74	55	4965	109	12	5.8	A+
VFP900-G2-865-05	4052899316522	White	6500	24	12.2	900	74	55	4965	109	12	5.8	A+
VALUE Flex Protect (VFP600)													
VFP600-G2-827-06	4052899316782	White	2700	24	7.7	575	75	36	6018	166	12	5.8	A+
VFP600-G2-830-06	4052899316829	White	3000	24	7.7	575	75	36	6018	166	12	5.8	A+
VFP600-G2-840-06	4052899316805	White	4000	24	7.7	600	78	36	6018	166	12	5.8	A+
VFP600-G2-865-06	4052899316843	White	6500	24	7.7	600	78	36	6018	166	12	5.8	A+
VALUE Flex Protect Eco (VFEPG1)													
VFEPG1-FLX-300-830-6000-DC	4052899084971	White	3000-3500	24	4.2	250	60	42	6051	144	11	4	A++
VFEPG1-FLX-300-860-6000-DC	4052899085077	White	6000	24	4.2	280	67	42	6051	144	11	4	A++

* Relative to the smallest operable unit

Due to the complex manufacturing process of light-emitting diodes, the above-specified typical values of the technical LED parameters merely represent purely statistical variables. They do not necessarily correspond to the actual technical parameters of each individual product, which may deviate from typical values.

Flexessories®

To support the installation of Flex LED modules, a whole range of Flexessories® – dedicated accessories for Flex LED modules – are available. Our new extended range of Flexessories® facilitate a quick and easy installation.



Aluminum profiles are designed to facilitate compact applications such as furniture, interior design and industrial design. Combine them with covers and other accessories to obtain a homogeneous light distribution.

A complete and matching system

LED modules



LINEARlight Flex®

LED drivers



OPTOTRONIC®



Flexessories®



Track



Cover



End cap



Mounting bracket

			LINEARlight					Flex (unprotected)				Flex Protect				VALUE Flex			
			LF06A, LF05A2	LF800S, LF1200	LF05E2, LF05E	LF05CA2	LF05CE	LF1200-TW	LF2000-TW	LF3000-TW	LF4000-TW	LF2000 *, LF2000SW, LF1200MW, LF1200MWR, LF2000VW	LF3000 *, LF3000SW, LF2000MW, LF2000MWR, LF2000VW	LF06P2-P, LF06A-P, LFP800S	LF05A-P	LF05E-P, LF06E-P	LF05CA-P, LF05CE-P	VF1500, VF900, VF600, VFEG1	VFP1300, VFP900, VFP600, VFEPG1
■ = Combination options between Flex LED modules and accessories																			
□ = Additionally required accessories, see data sheets for detailed information																			
● = Combination possible only without cover																			
● = Full compatibility, tested in recessed conditions including cover at T _{amb} = 25 °C																			
○ = Compatibility in free-air conditions including cover at T _{amb} = 25 °C																			
Ordering code	Short description	Product number (EAN)																	
SLIM TRACK System																			
LF-LTS-2100	Slim track	4008321978981	●	●	●	●	●	●	○			○		●	●	●	●	●	●
LF-LTS-MB ²⁾	Mounting bracket	4008321979025	□	□	□	□	□	□				□		□	□	□	□	□	□
LF-LTS	Cover diffuse	4008321979001	■	■	■	■	■	■				■		■	■	■	■	■	■
LF-LTS ³⁾	End cap	4008321979049	□	□	□	□	□	□				□		□	□	□	□	□	□
LF-LTS	Cover C (clear)	4008321790187	■	■	■	■	■	■				■		■	■	■	■	■	■
LF-LTS	Cover S (shortpitch-diff)	4008321790200	■	■	■	■	■	■				■		■	■	■	■	■	■
QUICK MOUNTING TRACKS																			
FX-QMS-G1-TU15H6-300	Slim track	4052899448865	●	●	●	●	●	●	○			○		●	●	●	●		
FX-QMS-G1-TU15H6W3-300	Slim track	4052899448889	●	●	●	●	●	●	○			○		●	●	●	●		
FX-QMS-G1-TU16H12-300	Slim track	4052899448964	●	●	●	●	●	●	○			○		●	●	●	●		
FX-QMS-G1-TU16H12W3-300	Slim track	4052899448988	●	●	●	●	●	●	○			○		●	●	●	●		
FX-QMS-G1-TR19H16-300	Slim track	4052899449008	●	●	●	●	●	●	○			○		●	●	●	●		
FX-QMS-G1-TU16H12LS	Slim track	4052899449046	●	●	●	●	●	●	○			○		●	●	●	●		
FX-QMS-G1-T45D19H19-300	Slim track	4052899448667	●	●	●	●	●	●	○			○		●	●	●	●		
FX-QMH-G1-TU15H23W4-105	Handrail track	4052899449022	●	●	●	●	●	●	○			○		●	●	●	●		
FX-QMW-G1-TK30D46H27-300	Wide track	4052899448827	●	●	●	●	●	●				●		●	●	●	●		
FX-QMW-G1-TU26H25W10-300	Wide track	4052899448773	●	●	●	●	●	●	●	○		●	○	●	●	●	●		
FX-QMW-G1-TU26H8-300	Wide track	4052899448643	●	●	●	●	●	●						●	●	●	●		
FX-QMW-G1-TU26H25W2-300	Wide track	4052899448841	●	●	●	●	●	●	●	○		●	○	●	●	●	●		
FX-QMW-G1-TU26H25-300	Wide track	4052899448803	●	●	●	●	●	●	●	○		●	○	●	●	●	●		
FX-QME-G1-T6G10H25-300	Edge lighting track	4052899448711	●	●	●	●	●	●											
FX-QME-G1-T810G12H25-300	Edge lighting track	4052899448759	●	●	●	●	●	●											
VALUE TRACK System																			
VF-TR1000	Track	4008321867636	■	■	■	■	■	■										■	
VI-TR1000	Track	4008321893789	■	■	■	■	■	■						■	■	■	■	■	■
SLIMCONNECTsystem Flex G2 (Generation 2)																			
FX-SC08-G2-CT2PF-0500	2-pin feeder	4052899464735	■	■								■	■						
FX-SC08-G2-CT2PF-1000 ¹⁾	2-pin feeder	4052899464766	■	■								■	■						
FX-SC08-G2-CT3PF-0500HF ¹⁾	3-pin feeder	4052899482999						■	■	■	■								
FX-SC08-G2-CT3PFE-0500HF ¹⁾	3-pin feeder	4052899483026						■	■	■	■								
FX-SC08-G2-CT4PF-0500	4-pin feeder	4052899464797				■													
FX-SC08-G2-CT4PF-1000 ¹⁾	4-pin feeder	4052899464827				■													
FX-SC08-G2-CT4PJ	4-pin jumper	4052899464858	■	■		■		■	■	■	■	■	■	□	□				
FX-SC08-G1-FW4P-LIN-0030	Extension wire 30 mm	4008321875587	■	■	■	■		■	■	■	■	■	■						
FX-SC08-G1-FW4P-LIN-0150	Extension wire 150 mm	4008321875563	■	■	■	■		■	■	■	■	■	■						
FX-SC08-G2-C2PF-IP54-0500	2-pin feeder IP54	4052899464889												■	■				
FX-SC08-G2-BTJ-IP54 ¹⁾	Silicone boot for jumper to add IP54 protection	4052899464919												■	■				

For a full overview on Flexessories®, please visit www.osram.com/flexessories

Dedicated tracks for LINEARlight Flex® Diffuse are available summer 2017.

* LF4000 has the same CONNECTsystem as LF2000 and LF3000.

1) Expected to be available from May 2017 2) Successor product: 4052899381018 3) Successor product: 4052899387591

- = Combination options between Flex LED modules and accessories
□ = Additionally required accessories, see data sheets for detailed information

			LINEARlight	Flex (un-protected)			Flex Protect			VALUE Flex	Flex Diffuse		
				LF06A, LF05A2	LF05E2, LF05E	LF05CE	LF06P2-P, LF06A-P, LFP800S	LF05A-P	LF05E-P, LF06E-P	LF05CA-P, LF05CE-P	VF1500, VF900, VF600, VFEG1 VFP1300, VFP900, VFP600, VFEPG1	LFD400T, LFD400MT	LFD400S, LFD400MS
■ = Combination options between Flex LED modules and accessories													
□ = Additionally required accessories, see data sheets for detailed information													
Ordering code	Short description	Product number (EAN)											
CONNECTsystem Flex													
LF-2PIN FLEX	2-pin feeder	4008321955326	■	■									
LF-4PIN FLEX	4-pin feeder	4008321514585			■								
LF-CONN-10 FLEX	Bridge 10 mm	4008321955333	■	■	■								
LF-CONN-150 FLEX	Bridge 150 mm	4008321955340	■	■	■								
LF-2TERM FLEX	2-pin terminal	4008321955357	■										
CONNECTsystem Flex IP67 LP (low profile)													
LF-ENDCAP IP67 LP	End cap IP67 LP	4052899902565					■				Optional VALUE Flex® SLIMCONNECTsystem IP54 available, please check data sheet for information		
LF-2CONN IP67 LP	2-pin jumper IP67 LP	4052899125735					■						
LF-2PIN IP67 LP	2-pin feeder IP67 LP	4052899125711					■						
CONNECTsystem Flex IP67													
LF-ENDCAP-PROTECT	End cap IP67	4008321977106						■	■	■			
LF-CLIP FIXTURE PROTECT	Mounting clip IP67	4008321644749						■	■	■			
LF-2PIN-PROTECT	2-pin feeder IP67	4008321977069						■	■				
LF-4PIN-PROTECT	4-pin feeder IP67	4008321977076						■		■			
LF-2CONN-PROTECT	2-pin jumper IP67	4008321977083							□	■			
LF-4CONN-PROTECT	4-pin jumper IP67	4008321977090								■			
CONNECTsystem Diffuse (top bending)													
FX-DCS-G1-CM2PF-IP67-0500-X5	Middle power feeder	4052899451971										■	
FX-DCS-G1-CM2PJ-IP67-0190-X5	Module-to-module middle jumper	4052899452039										■	
FX-DCS-G1-CM2PF-IP67-TOPKIT5	Feeder kit with end caps & glue	4052899451995										■	
FX-DCS-G1-CM2PJ-IP67-TOPKIT5	Jumper kit with end caps & glue	4052899452053										■	
FX-DCS-G1-ECT-KIT20	End caps & glue	4052899452107										■	
FX-DCS-G1-EHT-KIT20	Double-sided end caps & glue	4052899452176										■	
FX-DCS-G1-GL-25	Silicone glue 25 g	4052899452244										■	
CONNECTsystem Diffuse (side bending)													
FX-DCS-G1-CM2PF-IP67-0500-X5	Middle power feeder	4052899451971											■
FX-DCS-G1-CM2PJ-IP67-0190-X5	Module-to-module middle jumper	4052899452039											■
FX-DCS-G1-CM2PF-IP67-SIDEKIT5	Feeder kit with end caps & glue	4052899452015											■
FX-DCS-G1-CM2PJ-IP67-SIDEKIT5	Jumper kit with end caps & glue	4052899452077											■
FX-DCS-G1-ECS-KIT20	End caps & glue	4052899452121											■
FX-DCS-G1-EHS-KIT20	Double-sided end caps & glue	4052899452206											■
FX-DCS-G1-GL-25	Silicone glue 25 g	4052899452244											■
Diffuse Mounting System													
FX-LFDM-G1-BT-17H11	Mounting bracket	4052899452480										■	
FX-LFDM-G1-BTL-17H11E9	Mounting bracket with additional wing	4052899452510										■	
FX-LFDM-G1-BS-12H13	Mounting bracket	4052899452541											■
FX-LFDM-G1-BSL-12H13E9	Mounting bracket with additional wing	4052899452572											■

Optional VALUE Flex® SLIMCONNECTsystem IP54 available, please check data sheet for information

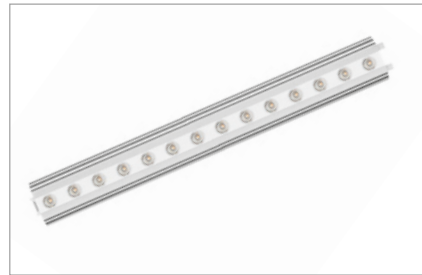
Rigid LINEARlight LED modules: Matching systems for your application

With rigid LINEARlight LED modules, you can illuminate linear structures such as shelving or coves with seamless, interconnectable continuous light. Illumination is homogeneous, without shadows and even with directional light through the use of optics. Thanks to their long lifespan, LINEARlight LED modules require only little maintenance effort – a significant advantage especially when installed in applications that are difficult to access. Applications with long operating hours benefit the most from the long lifespan – e.g. in retail stores, office buildings and hotels. The pre-installed overall modules provide efficient plug-&-play solutions for simple, rapid on-site mounting. The LEDs are already equipped with suitable optics, connectors and an elegant aluminum casing that serves as a heat sink.

LINEARlight overall LED module 24 V

Common characteristics

- Attractive design with total height of only 13 mm
- Seamless light without shadowing
- Fine White Binning (3SDCM)
- Dimmable (PWM)
- Lifespan of up to 50 000 h (L70B50)
- Integral cooling via elegant aluminum profile
- Various brand optics available
- IP20-protected electronics
- VDE-certified
- On-board SMD connector for simple installation of continuous light



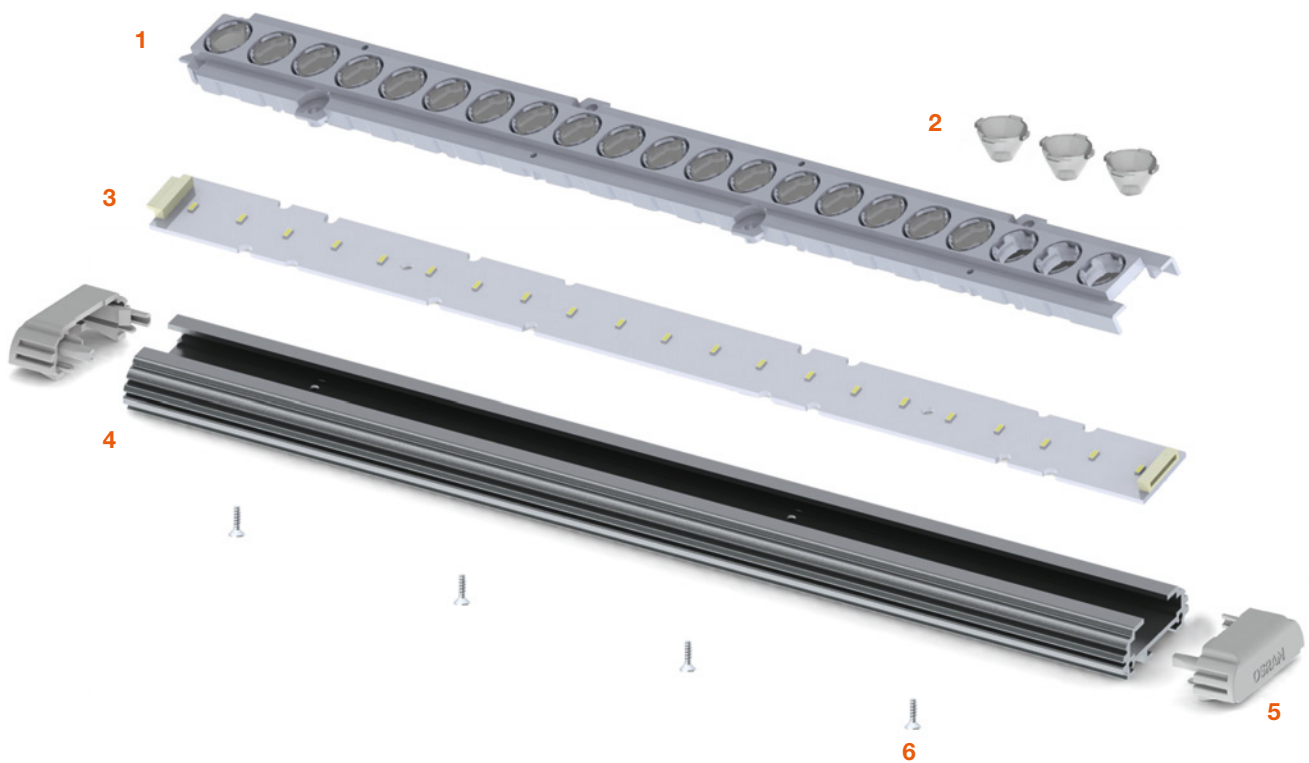
LINEARlight POWER

- Luminous flux: up to 570 lm/280 mm (up to 2 250 lm/m)
- 21 LEDs
- Alternative to T5 fluorescent lamps
- Main application: General illumination, coves

Rigid LINEARlight LED modules can be combined to create highly efficient complete systems by using our accessories. The modular design means that single components can be rapidly and simply combined to create continuous lines. This results in ready-to-use overall modules and convenient, time-saving installations.



Assemble your individual overall LED modules



OSRAM provides you with all components needed for efficient and durable continuous lighting. Choose and combine the components that match your installation. Based on the required length of continuous light, you can select the desired light intensity, suitable optics and suitable connection accessories. This gives you a completely customizable total package with high quality, which optimally fulfills your specifications.

Our module components

- 1 Optics tray**
- 2 Optics**
- 3 Module PCB with SMD connector**
- 4 LINEARlight Track 280/560 mm**
- 5 LINEARlight Track end cap**
- 6 M3 screws**
- Mounting bracket (no image)**

Rigid LINEARlight LED modules



Rigid LINEARlight LED modules

Product reference	Product number (EAN)													
LINEARlight POWER LED modules														
LR21P-W2F-830	4008321971470	3000	24	2250	21	7.8	630	120	280	20	2	3.2	13.3	A+
LR21P-W2F-840	4008321971494	4000	24	2250	21	7.8	630	120	280	20	2	3.2	13.3	A+
LINEARlight Advanced LED modules														
LR14A-W2F-830	4008321978400	3000	24	1400	14	4.7	400	120	280	20	2	3.2	20	A+
LR14A-W2F-840	4008321971531	4000	24	1400	14	4.7	400	120	280	20	2	3.2	20	A+
LINEARlight POWER overall LED modules														
LR21P-W2F-830-L30	4008321971630	3000	24	2050	21	7.8	570	30	280	36	13	-	13.3	A
LR21P-W2F-830-L70	4008321978707	3000	24	2050	21	7.8	570	70	280	36	13	-	13.3	A
LR21P-W2F-840-L30	4008321971654	4000	24	2050	21	7.8	570	30	280	36	13	-	13.3	A
LR21P-W2F-840-L70	4008321978721	4000	24	2050	21	7.8	570	70	280	36	13	-	13.3	A
LINEARlight Advanced overall LED modules														
LR14A-W2F-830-L30	4008321971678	3000	24	1250	14	2.3	350	30	285	30	12	-	20	A+
LR14A-W2F-830-L70	4008321978424	3000	24	1250	14	2.3	350	70	285	36	13	-	20	A+
LR14A-W2F-840-L30	4008321971692	4000	24	1250	14	2.3	350	30	285	36	13	-	20	A+
LR14A-W2F-840-L70	4008321978448	4000	24	1250	14	2.3	350	70	285	36	13	-	20	A+

Product reference	Product number (EAN)													
LINEARlight Colormix LED modules														
LR28CA	4008321978547	RGB	24	640	28	10.1	360	120	560	20	2	3.2	31	
LR18CP	4008321971593	RGB	24	1420	18	19.1	800	150	560	20	2	3.2	31	
LINEARlight Colormix overall LED modules														
LR28CA 560-L2050	4008321978561	RGB	24	600	28	10.1	380	20x50	560	36	13	-	31	
LR18CP 560-L2050	4008321971753	RGB	24	1300	18	19.1	730	20x50	560	36	13	-	31	

Due to the complex manufacturing process of light-emitting diodes, the above-specified typical values of the technical LED parameters merely represent purely statistical variables. They do not necessarily correspond to the actual technical parameters of each individual product, which may deviate from typical values.

Accessories



Accessories

■ = Combination options between rigid LINEARlight LED modules and accessories

Description	Product reference	Product number (EAN)	LINEARlight POWER LED modules (LR21P)	LINEARlight Colormix LED modules (LR18CP)	LINEARlight overall LED modules (POWER, Colormix)
Plug	LR-4PIN-500	4008321971852	■	■	■
Connector	LR-4CONN-250	4008321994400	■	■	■
Connector	LR-4CONN-45	4008321971814	■	■	■
Aluminum rail	LT-280	4008321975973	■		
Aluminum rail	LT-560	4008321975997	■	■	
End cap	LT-ENDCAP-G2	4052899076358	■	■	■
Mounting clip	LD-MB	4008321225672	■	■	■
Optics tray	OTR-280-LR21P	4008321976062	■		
Optics tray	OTR-280-LR14A/E/LR28CA	4008321994448		■	
Optics	OPLR1x1-20X50	4008321976048	■	■	
Optics	OPLR1x1-30	4008321976000	■	■	
Optics	OPLR1x1-70	4008321976024	■	■	



OPTOTRONIC®

Product reference	Product number (EAN)	Interface for dimming	IP	Interface
OPTOTRONIC OT 8/200-240/24	4008321040169		IP20	
OPTOTRONIC OT 20/220-240/24	4050300618111		IP20	
OPTOTRONIC OT 50/220-240/24	4052899905566		IP20	
OPTOTRONIC OT 75/220-240/24	4050300817477		IP20	
OPTOTRONIC OTi DALI 75/220-240/24	4008321371560	■	IP20	DALI
OPTOTRONIC OT EASY 80/220-240/24 RGB	4008321808363	■	IP20	EASY

White 830/840 LED modules – possible combinations

Product family	Wattage	OT 8	OT 20 (S)	OT 50	OT 75	OTi DALI 75
		200-240/24	220-240/24	220-240/24	220-240/24	220-240/24
LINEARlight POWER	7.8 W	1 LED module	1-2 LED modules	1-5 LED modules	1-6 LED modules	1-6 LED modules

Colormix LED modules – possible combinations

Product family	Wattage	OT EASY 80
		220-240/24 RGB
LINEARlight POWER Colormix	19.1 W	3-4 LED modules

Symbols

 COLOR	Color		Number of LED modules per meter
 K	Color temperature in Kelvin		Length in mm
 V	Voltage in volts		Height in mm
 W	Watts		Beam angle
 λ	Power factor/wavelength		Width in mm
 $\frac{W}{\text{METER}}$	Watts per meter		Minimum length in mm
 $\frac{\text{lm}}{\text{METER}}$	Lumens per meter		Length l_1 in mm
 $\frac{\text{lm}}{W}$	Lumens per watt		Diameter in mm
 lm	Lumens		

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