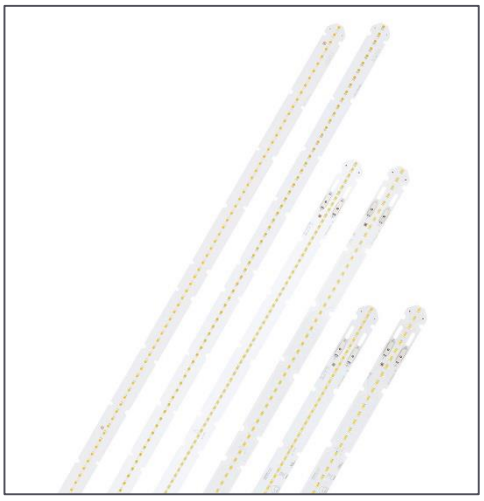
Light is OSRAM

PrevaLED® Linear G5

Dimension (l x w x h)
- 70 mm x 20 mm x 5 mm
- 280 mm x 20 mm x 5 mm
- 560 mm x 20 mm x 5 mm
- 1120 mm x 20 mm x 5 mm
- 1400 mm x 20 mm x 5 mm



Application
- Office
- Industry

Features
- Module efficacy: up to 193 lm/W
- CCT: 3000K, 4000K, 6500 K
- 20 mm module width - Luminous flux on
  - 70 mm: 275 lm
  - 280 mm: 1100, 2000 lm
  - 560 mm: 2200, 4000 lm
  - 1120 mm: 4400 lm
  - 1400 mm: 5500 lm
- Color rendering index CRI: > 80
- Initial color consistency: ≤ 3 SDCM
- Average lifetime (L80 B50): > 70.000 h at Tc = 50 °C
- Geometry according to Zhaga Book 7 L28W2 and L56W2
- ENEC, CE Certification

Benefits
- Adjustable luminous flux, efficacy and lifetime
- HV optimized for serial connection, LV optimized for parallel connection
- Wide range of light colors
- High homogeneity thanks to small LED pitch
- Cut out area for shadow-free wiring
- Slim luminaire design by small and flexible form factor

Typical technical data*

Product name	Flux (lm)	CCT (K)	CRI	SDCM	Uf (V)	If (mA)	P (W)	Efficacy (lm/W)
PL-LIN-Z5 275-830 70X20-LV	256	3000	> 80	3	23.5	62	1.5	174
PL-LIN-Z5 275-840 70X20-LV	271	4000	> 80	3	23.5	62	1.5	184
PL-LIN-Z5 1100-830 280X20-LV/HV	1027	3000	> 80	3	23.5	250	5.9	174
PL-LIN-Z5 1100-840 280X20-LV/HV	1084	4000	> 80	3	23.5	250	5.9	184
PL-LIN-Z5 1100-865 280X20-LV/HV	1084	6500	> 80	3	23.5	250	5.9	184
PL-LIN-Z5 2000-830 280X20-LV/HV	1963	3000	> 80	3	43.1	275	11.8	165
PL-LIN-Z5 2000-840 280X20-LV/HV	2072	4000	> 80	3	43.1	275	11.8	175
PL-LIN-Z5 2000-865 280X20-LV/HV	2072	6500	> 80	3	43.1	275	11.8	175
PL-LIN-Z5 2200-830 560X20-LV	2054	3000	> 80	3	23.5	500	11.8	174
PL-LIN-Z5 2200-840 560X20-LV	2168	4000	> 80	3	23.5	500	11.8	184
PL-LIN-Z5 2200-865 560X20-LV	2168	6500	> 80	3	23.5	500	11.8	184
PL-LIN-Z5 2200-830 560X20-HV	2054	3000	> 80	3	47.1	250	11.8	175
PL-LIN-Z5 2200-840 560X20-HV	2168	4000	> 80	3	47.1	250	11.8	184
PL-LIN-Z5 2200-865 560X20-HV	2168	6500	> 80	3	47.1	250	11.8	184
PL-LIN-Z5 4000-830 560X20-LV	3926	3000	> 80	3	43.1	550	23.7	165
PL-LIN-Z5 4000-840 560X20-LV	4156	4000	> 80	3	43.1	550	23.7	175
PL-LIN-Z5 4000-865 560X20-LV	4156	6500	> 80	3	43.1	550	23.7	175
PL-LIN-Z5 4000-830 560X20-HV	3926	3000	> 80	3	86.2	275	23.7	165
PL-LIN-Z5 4000-840 560X20-HV	4145	4000	> 80	3	86.2	275	23.7	175
PL-LIN-Z5 4000-865 560X20-HV	4145	6500	> 80	3	86.2	275	23.7	175
PL-LIN-Z5 4400-830 1120X20-HV	4107	3000	> 80	3	94.2	250	23.5	174
PL-LIN-Z5 4400-840 1120X20-HV	4355	4000	> 80	3	94.2	250	23.5	184
PL-LIN-Z5 5500-830 1400X20-HV	5134	3000	> 80	3	117.7	250	29.4	174
PL-LIN-Z5 5500-840 1400X20-HV	5419	4000	> 80	3	117.7	250	29.4	184

Typical values valid for Tp = 50°C

Energy Efficiency Class according 2012/874/EC: A++

Due to the special conditions of the manufacturing processes of LED the typical data of technical parameters can only reflect statistical figures and do not necessarily correspond to the actual parameters of each single product which could differ from the typical data.
* Tolerance for optical and electrical data: +/-10

Maximum current*

Product name	Flux (lm)	CCT (K)	CRI	SDCM	Uf (V)	If (mA)	P (W)	Efficacy (lm/W)
PL-LIN-Z5 275-830 70X20-LV	490	3000	> 80	3	25.0	125	3.1	157
PL-LIN-Z5 275-840 70X20-LV	518	4000	> 80	3	25.0	125	3.1	166
PL-LIN-Z5 1100-830 280X20-LV/HV	1962	3000	> 80	3	25.0	500	12.5	157
PL-LIN-Z5 1100-840 280X20-LV/HV	2071	4000	> 80	3	25.0	500	12.5	166
PL-LIN-Z5 1100-865 280X20-LV/HV	2071	6500	> 80	3	25.0	500	12.5	166
PL-LIN-Z5 2000-830 280X20-LV/HV	2616	3000	> 80	3	44.4	375	16.6	157
PL-LIN-Z5 2000-840 280X20-LV/HV	2762	4000	> 80	3	44.4	375	16.6	166
PL-LIN-Z5 2000-865 280X20-LV/HV	2762	6500	> 80	3	44.4	375	16.6	166
PL-LIN-Z5 2200-830 560X20-LV	3925	3000	> 80	3	25.0	1000	25.0	157
PL-LIN-Z5 2200-840 560X20-LV	4143	4000	> 80	3	25.0	1000	25.0	166
PL-LIN-Z5 2200-865 560X20-LV	4143	6500	> 80	3	25.0	1000	25.0	166
PL-LIN-Z5 2200-830 560X20-HV	3925	3000	> 80	3	50.0	500	25.0	157
PL-LIN-Z5 2200-840 560X20-HV	4143	4000	> 80	3	50.0	500	25.0	166
PL-LIN-Z5 2200-865 560X20-HV	4143	6500	> 80	3	50.0	500	25.0	166
PL-LIN-Z5 4000-830 560X20-LV	5233	3000	> 80	3	44.4	750	33.3	157
PL-LIN-Z5 4000-840 560X20-LV	5524	4000	> 80	3	44.4	750	33.3	166
PL-LIN-Z5 4000-865 560X20-LV	5524	6500	> 80	3	44.4	750	33.3	166
PL-LIN-Z5 4000-830 560X20-HV	5233	3000	> 80	3	88.8	375	33.3	157
PL-LIN-Z5 4000-840 560X20-HV	5524	4000	> 80	3	88.8	375	33.3	166
PL-LIN-Z5 4000-865 560X20-HV	5524	6500	> 80	3	88.8	375	33.3	166
PL-LIN-Z5 4400-830 1120X20-HV	7849	3000	> 80	3	100.0	500	50.0	157
PL-LIN-Z5 4400-840 1120X20-HV	8285	4000	> 80	3	100.0	500	50.0	165
PL-LIN-Z5 5500-830 1400X20-HV	9812	3000	> 80	3	125.0	500	62.4	157
PL-LIN-Z5 5500-840 1400X20-HV	10357	4000	> 80	3	125.0	500	62.4	166

Operation point

Operation point	1100lm@840 2200lm@840	lm	lm/W
80% I-typ 200mA	Tc 25°	916	193
	Tc-nom 50°	877	189
	Tc max 75°	834	182
I-typ 250mA	Tc 25°	1132	188
	Tc-nom 50°	1084	184
	Tc max 75°	1030	177
I-max 500mA	Tc 25°	2164	170
	Tc-nom 50°	2071	166
	Tc max 75°	1968	159

Optical parameter

Product name	No. of LED	Pitch in mm
PL-LIN-Z5 275-8xx 70X20-LV	9	7.78
PL-LIN-Z5 1100-8xx 280X20-LV/HV	36	7.78
PL-LIN-Z5 2000-8xx 280X20-LV/HV	48	5.83
PL-LIN-Z5 2200-8xx 560X20-LV/HV	72	7.78
PL-LIN-Z5 4000-8xx 560X20-LV/HV	96	5.83
PL-LIN-Z5 4400-8xx 1120X20-HV	144	7.78
PL-LIN-Z5 5500-8xx 1400X20-HV	180	7.78

Temperature ratings

	50°C
Tc max (maximum temperature)	75°C
Ta (ambient temperature range)	-20°C < Ta < +75°C
Tstg (storage temperature range)	-30°C < Ta < +85°C

Mechanical parameter

Parameter in mm	Length			Width			Height w/ connector		
	Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.
PL-LIN-Z5 275-8xx 70X20-LV	69.3	69.5	69.7	19.8	20.0	20.6	5.1	5.5	6.0
PL-LIN-Z5 xxxx-8xx 280X20-LV/HV	279.3	279.5	279.7	19.8	20.0	20.6	5.1	5.5	6.0
PL-LIN-Z5 xxxx-8xx 560X20-XX	559.3	559.5	559.7	19.8	20.0	20.6	5.1	5.5	6.0
PL-LIN-Z5 4400-8xx 1120X20-HV	1119.2	1119.5	1119.8	19.8	20.0	20.6	5.1	5.5	6.0
PL-LIN-Z5 5500-8xx 1400X20-HV	1399.2	1399.5	1339.8	19.8	20.0	20.6	5.1	5.5	6.0

Lifetime Data

	LxBy						
	x	70		80		90	
	y	10	50	10	50	10	50
	[mA]	Lifetime [h]					
tp [°C] = 40	I rated	> 70.000	> 70.000	> 70.000	> 70.000	36.000	40.000
tp [°C] = 45	I rated	> 70.000	> 70.000	> 70.000	> 70.000	35.000	39.000
tp [°C] = 50	I rated	> 70.000	> 70.000	69.000	> 70.000	33.000	37.000
tp [°C] = 55	I rated	> 70.000	> 70.000	66.000	> 70.000	32.000	36.000
tp [°C] = 60	I rated	> 70.000	> 70.000	64.000	> 70.000	31.000	35.000
tp [°C] = 65	I rated	> 70.000	> 70.000	62.000	69.000	30.000	33.000
tp [°C] = 70	I rated	> 70.000	> 70.000	60.000	67.000	29.000	32.000
tp [°C] = 75	I rated	> 70.000	> 70.000	58.000	65.000	28.000	31.000

Modularity SELV

OTi DALI (wide window driver – SELV)
Dimmable

PrevaLED Linear G5 is designed to be operated by OTi DALI drivers in parallel connection. Current setting via Tuner4Tronic software and DALI magic.

				DALI SELV				DEXAL SELV	
	V	mA	W	OTI DALI35/220-240/700 LT2L G2	OTI DALI50/220-240/1A4 LT2L G2	OTI DALI 80/220-240/1A6 LT2 L	OTI DALI 80/220-240/2A1 LT2 L	OTI 30/120-277/1A0 DX L	OTI 50/120-277/1A4 DX L
1100-8xx 280x20-LV/HV	23,5	250	5,9	1-4 1-2s1-2p	4-8 1-2s3-5p	3-12 1-2s3-6p	6-12 1-2s4-8p	2-4 1-2s1-4p	3-8 1-2s3-5p
2000-8xx 280x20-LV/HV	43,1	275	11,8	1-2 1s1-2p	3-4 1s3-4p	3-5 1s3-5p	4-6 1s4-6p	1-2 1s1-2p	3-4 1s3-4p
2200-8xx 560x20-LV	23,5	500	11,8	1-2 1-2s1p	2-4 1-2s2p	2-6 1-2s2-3p	3-6 1-2s2-4p	1-2 1-2s1-2p	2-4 1-2s2p
4000-8xx 560x20-LV	43,1	550	23,7	1	2 1s2p	2 1s2p	2-3 1s2-3p	1	2 1s2p
4FT SELV (2 x 2200 lm)	23,5	1000	23,6		1-2 1-2s1p	1-2 1-2s1p	2 1-2s1-2p	1	1-2 1-2s1p
4FT SELV (2 x 4000 lm)	43,1	1100	47,2		1	1	1		1
5FT SELV (2 x 2200 lm + 1 x 1100 lm)	23,5	1250	29,5		1	1-2 1-2s1p	2 2s1p		1
5FT SELV (2 x 4000 lm + 1 x 2000 lm)	43,1	1350	53,3			1	1		
	parallel connection								

OT FIT CS (triple current driver – SELV)
Non-dimmable

PrevaLED Linear G5 is designed to be operated by OT FIT drivers in parallel connection. Current setting via cable bridge on primary side.

				On/off			On / Off NFC		
				OT FIT 35/220-240/700 CS L G2	OT FIT 55/220-240/1A0 CS L G2	OT FIT 75/220-240/1A4 CS L G2	OT FIT 35 NFC L	OT FIT 55 NFC L	OT FIT 75 NFC L
	V	mA	W	27-54V	27-54V	27-54V	20-54V	20-54V	20-54V
1100-8xx 280x20-LV/HV	23,5	250	5,9	4 2s2p	8 2s4p	10 2s5p	4 2s2p	6-8 2s3-4p	5-10 1-2s3-5p
2000-8xx 280x20-LV/HV	43,1	275	11,8	2 1s2p	3 1s3p	4-5 1s4-5p	2 1s2p	3 1s3p	3-5 1s3-5p
2200-8xx 560x20-LV	23,5	500	11,8	2 2s1p	4 2s2p	4 2s2p	2 2s1p	4 2s2p	4 2s2p
4000-8xx 560x20-LV	43,1	550	23,7	1	1	2 1s2p	1		2 1s2p
4FT SELV (2 x 2200 lm)	23,5	1000	23,6		2 2s1p			2 2s1p	2 2s1p
4FT SELV (2 x 4000 lm)	43,1	1100	47,2			1			1
5FT SELV (2 x 2200 lm + 1 x 1100 lm)	23,5	1250	29,5			2 2s1p			1-2 1-2s1p
5FT SELV (2 x 4000 lm + 1 x 2000 lm)	43,1	1350	53,3			1			1
	parallel connection								

Wiring scheme SELV

LV Type – SELV driver
Parallel connection

Modularity Non-isolated

OTi (wide window driver – Non-isolated)

PrevaLED Linear G5 is designed to be operated by OTi and OTi DALI drivers in serial or combined serial- parallel connection. Current setting of OTi via resistor coding (LEDset) and OTi DALI via Tuner4Tronic software and DALI magic.

				Ultraflat		LEDset			
				OTI DALI 35/220-240/400D LT2UFL	OTI DALI 75/220-240/700D LT2UFL	OTI DALI 35/220-240/400D LT2L	OTI DALI 60/220-240/550D LT2L	OTI DALI 90/220-240/700D LT2L	OTI DALI 90/220-240/1A0 LT2L
	V	mA	W						
1100-8xx 280x20-LV/HV	23,5	250	5,9	3-6 3-6s1p	3-12 3-10s1-2p	3-6 3-6s1p	3-10 3-10s1-2p	3-14 3-10s1-2p	3-14 3-10s1-4p
2000-8xx 280x20-LV/HV	42,1	275	11,8	2-3 2-3s1p	2-6 2-5s1-2p	2-3 2-3s1p	2-5 2-5s1-2p	2-6 2-5s1-2p	2-6 2-5s1-3p
2200-8xx 560x20-HV	47,1	250	11,8	1-3 2-3s1p	2-6 2-5s1-2p	2-3 2-3s1p	2-5 2-5s1-2p	2-6 2-5s1-2p	2-6 2-5s1-4p
4000-8xx 560x20-HV	86,2	275	23,7	1	1-2 1-2s1-2p	1	1-2 1-2s1-2p	1-2 1-2s1-2p	1-3 1-2s1-3p
4FT non-SELV (2 x 2200 lm)	94,2	250	23,6	1	1-2 1-2s1-2p	1	1-2 1-2s1-2p	1-2 1-2s1-2p	1-3 1-2s1-3p
4FT non-SELV (2 x 4000 lm)	172,4	275	47,4		1		1	1	1
5FT non-SELV (2 x 2200 lm + 1 x 1100 lm)	117,7	250	29,5	1	1-2 1-2s1-2p	1	1-2 1-2s1-2p	1-2 1-2s1-2p	1-3 1-2s1-3p
5FT non-SELV (2 x 4000 lm + 1 x 2000 lm)	214,5	275	59,2		1		1	1	1
	serial and combined serial-parallel connection								

LEDset and Single current driver – (Non-isolated)

PrevaLED Linear G5 is designed to be operated by OT FIT drivers with single current output or via resistor coding (LEDset)

	LEDset				Single current		
	OT FIT 25/220-240/300 D LT2 L	OT FIT 35/220-240/350D LT2 L	OT FIT 75/220-240/550 D LT 2 L	OT FIT 120/220-240/750 D LT 2	OT FIT 50/220-240/250 D L	OT FIT 50/220-240/300 D L	OT FIT 50/220-240/350 D L
1100-8xx 280x20-LV/HV	2-4 2-4s1p	3-5 3-5s1p	3-12 3-9s1-2p	3-18 3-9s1-3p	3-9 3-9s1p	3-7 3-7s1p	3-6 3-6s1p
2000-8xx 280x20-LV/HV	1-2 1-2s1p	2 2s1p	2-6 2-4s1-2p	2-9 2-4s1-3p	2-5 2-5s1p	2-4 2-4s1p	2-3 2-3s1p
2200-8xx 560x20-HV	1-2 1-2s1p	2 2s1p	2-6 2-4s1-2p	2-8 2-4s1-3p	2-4 2-s1p	2-3 2-3s1p	2-3 2-3s1p
4000-8xx 560x20-HV	1	1	1-2 1-2s1-2p	1-4 1-2s1-2p	1-2 1-2s1p	1-2 1-2s1p	1
4FT non-SELV (2 x 2200 lm)	1	1	1-2 1-2s1-2p	1-4 1-2s1-3p	1-2 1-2s1p	1	1
4FT non-SELV (2 x 4000 lm)			1	1-2 1s1-2p	1	1	
5FT non-SELV (2 x 2200 lm + 1 x 1100 lm)		1	1-2 1-1s1-2p	1-4 1s1-3p	1	1	1
	serial and combined serial-parallel connection						

Wiring scheme – Non-isolated

HV Type – Non-isolated driver
Serial connection

Please make sure to keep a clearance of minimum 1.5 mm at the ends of the LED module.

Ordering Codes

Product name	EAN (single product)	Order type	Shipping Unit
PL-LIN-Z5 275-830 70X20-LV	4052899618008	ATO	120 x 1
PL-LIN-Z5 275-840 70X20-LV	4052899618015	ATO	120 x 1
PL-LIN-Z5 1100-830 280X20-LV/HV	4052899607125	ATO	240 x 1
PL-LIN-Z5 1100-840 280X20-LV/HV	4052899607132	ATO	240 x 1
PL-LIN-Z5 1100-865 280X20-LV/HV	4052899607149	MTO	240 x 1
PL-LIN-Z5 2000-830 280X20-LV/HV	4052899607156	ATO	240 x 1
PL-LIN-Z5 2000-840 280X20-LV/HV	4052899607163	ATO	240 x 1
PL-LIN-Z5 2000-865 280X20-LV/HV	4052899607170	MTO	240 x 1
PL-LIN-Z5 2200-830 560X20-LV	4052899607187	ATO	120 x 1
PL-LIN-Z5 2200-840 560X20-LV	4052899607194	ATO	120 x 1
PL-LIN-Z5 2200-865 560X20-LV	4052899607200	MTO	120 x 1
PL-LIN-Z5 2200-830 560X20-HV	4052899607248	ATO	120 x 1
PL-LIN-Z5 2200-840 560X20-HV	4052899607255	ATO	120 x 1
PL-LIN-Z5 2200-865 560X20-HV	4052899607262	MTO	120 x 1
PL-LIN-Z5 4000-830 560X20-LV	4052899607217	ATO	120 x 1
PL-LIN-Z5 4000-840 560X20-LV	4052899607224	ATO	120 x 1
PL-LIN-Z5 4000-865 560X20-LV	4052899607231	MTO	120 x 1
PL-LIN-Z5 4000-830 560X20-HV	4052899607279	ATO	120 x 1
PL-LIN-Z5 4000-840 560X20-HV	4052899607286	ATO	120 x 1
PL-LIN-Z5 4000-865 560X20-HV	4052899607293	MTO	120 x 1
PL-LIN-Z5 4400-830 1120X20-HV	4052899607309	ATO	60 x 1
PL-LIN-Z5 4400-840 1120X20-HV	4052899607316	ATO	60 x 1
PL-LIN-Z5 5500-830 1400X20-HV	4052899607323	ATO	60 x 1
PL-LIN-Z5 5500-840 1400X20-HV	4052899607330	ATO	60 x 1

Safety Information

- The LED module itself and all its components must not be mechanically stressed.

The modules are intended for operation only with matching OPTOTRONIC®.

To also ease the luminaire/installation approval, electronic control gear for LED or LED modules should carry the CE mark and be ENEC certified. In Europe the declarations of conformity must include the following standards:
CE: EC 61347-2-13, EN 55015, IEC 61547 and IEC 61000-3-2 - ENEC: 61347-2-13 and IEC/EN 62384.

Also check for the mark of an independent authorized certification institute.

Please see the relevant brochure for more detailed information (see "Related and Further Information")

- Installation of LED modules (with power supplies) needs to be made with regard to all applicable electrical and safety standards. Only qualified personnel should be allowed to perform installations.
- Pay attention to standard ESD precautions when installing the module.
- Photobiological safety according to IEC 62471, risk group RG1
- Max. Voltage U-OUT = 250V for operation on non-isolated and SELV LED controlgear.

OSRAM GmbH

Head Office:

Marcel-Breuer-Strasse 6
80807 Munich, Germany
Phone +49 89 6213-0
www.osram.com