

Light is OSRAM

Basic Linear G3

Dimension (l x w x h)

- 280 mm x 20 mm x 5 mm
- 560 mm x 20 mm x 5 mm
- 1120 mm x 20 mm x 5 mm



Features

- Module efficacy: up to 168 lm/W
- CCT: 3000K, 4000K, 6500 K
- 20 mm module width - Luminous flux on
 - 280 mm: 770, 1100 lm
 - 560 mm: 1550, 2200 lm
 - 1120 mm: 3100, 4400 lm
- Color rendering index CRI: > 80
- Initial color consistency: ≤ 3 SDCM
- Average lifetime (L80 B50): > 50.000 h at $T_c = 50^\circ\text{C}$
- Geometry according to Zhaga Book 7 L28W2 and L56W2
- ENEC, CE Certification

Application

- Office
- Industry

Benefits

- Adjustable luminous flux, efficacy and lifetime
- Wide range of light colors
- High homogeneity thanks to small LED pitch
- 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)
BA-LIN-Z3 770-830 280X20-HV	786	3000	> 80	3	24.6	200	4.9	159
BA-LIN-Z3 770-840 280X20-HV	818	4000	> 80	3	24.6	200	4.9	166
BA-LIN-Z3 1550-830 560X20-HV	1571	3000	> 80	3	49.3	200	9.8	159
BA-LIN-Z3 1550-840 560X20-HV	1636	4000	> 80	3	49.3	200	9.8	166
BA-LIN-Z3 3100-830 1120X20-HV	3143	3000	> 80	3	98.6	200	19.7	159
BA-LIN-Z3 3100-840 1120X20-HV	3271	4000	> 80	3	98.6	200	19.7	166

Product name	Flux (lm)	CCT (K)	CRI	SDCM	Uf (V)	If (mA)	P (W)	Efficacy (lm/W)
BA-LIN-Z3 1100-830 280X20	989	3000	> 80	3	24.5	250	6.1	161
BA-LIN-Z3 1100-840 280X20	1030	4000	> 80	3	24.5	250	6.1	168
BA-LIN-Z3 1100-865 280X20	1030	6500	> 80	3	24.5	250	6.1	168
BA-LIN-Z3 2200-830 560X20	1979	3000	> 80	3	49.1	250	12.3	161
BA-LIN-Z3 2200-840 560X20	2059	4000	> 80	3	49.1	250	12.3	168
BA-LIN-Z3 2200-865 560X20	2059	6500	> 80	3	49.1	250	12.3	168
BA-LIN-Z3 4400-830 1120X20	3957	3000	> 80	3	98.2	250	24.5	161
BA-LIN-Z3 4400-840 1120X20	4119	4000	> 80	3	98.2	250	24.5	168
BA-LIN-Z3 4400-865 1120X20	4119	6500	> 80	3	98.2	250	24.5	168

Typical values valid for T_p = 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

Typical technical data at 300mA*

Product name	Flux (lm)	CCT (K)	CRI	SDCM	Uf (V)	If (mA)	P (W)	Efficacy (lm/W)
BA-LIN-Z3 770-830 280X20-HV	1126	3000	> 80	3	25.3	300	7.6	148
BA-LIN-Z3 770-840 280X20-HV	1172	4000	> 80	3	25.3	300	7.6	154
BA-LIN-Z3 1550-830 560X20-HV	2253	3000	> 80	3	50.7	300	15.2	148
BA-LIN-Z3 1550-840 560X20-HV	2345	4000	> 80	3	50.7	300	15.2	154
BA-LIN-Z3 3100-830 1120X20-HV	4506	3000	> 80	3	101.4	300	30.4	148
BA-LIN-Z3 3100-840 1120X20-HV	4689	4000	> 80	3	101.4	300	30.4	154

Product name	Flux (lm)	CCT (K)	CRI	SDCM	Uf (V)	If (mA)	P (W)	Efficacy (lm/W)
BA-LIN-Z3 1100-830 280X20	1163	3000	> 80	3	24.8	300	7.5	156
BA-LIN-Z3 1100-840 280X20	1211	4000	> 80	3	24.8	300	7.5	162
BA-LIN-Z3 1100-865 280X20	1211	6500	> 80	3	24.8	300	7.5	162
BA-LIN-Z3 2200-830 560X20	2327	3000	> 80	3	49.7	300	14.9	156
BA-LIN-Z3 2200-840 560X20	2422	4000	> 80	3	49.7	300	14.9	162
BA-LIN-Z3 2200-865 560X20	2422	6500	> 80	3	49.7	300	14.9	162
BA-LIN-Z3 4400-830 1120X20	4653	3000	> 80	3	99.3	300	29.8	156
BA-LIN-Z3 4400-840 1120X20	4843	4000	> 80	3	99.3	300	29.8	162
BA-LIN-Z3 4400-865 1120X20	4843	6500	> 80	3	99.3	300	29.8	162

Typical technical data at 350mA*

Product name	Flux (lm)	CCT (K)	CRI	SDCM	Uf (V)	If (mA)	P (W)	Efficacy (lm/W)
BA-LIN-Z3 770-830 280X20-HV	1290	3000	> 80	3	25.7	350	8.9	143
BA-LIN-Z3 770-840 280X20-HV	1343	4000	> 80	3	25.7	350	8.9	149
BA-LIN-Z3 1550-830 560X20-HV	2580	3000	> 80	3	51.4	350	18.0	143
BA-LIN-Z3 1550-840 560X20-HV	2686	4000	> 80	3	51.4	350	18.0	149
BA-LIN-Z3 3100-830 1120X20-HV	5161	3000	> 80	3	102.7	350	36.0	143
BA-LIN-Z3 3100-840 1120X20-HV	5372	4000	> 80	3	102.7	350	36.0	149

Product name	Flux (lm)	CCT (K)	CRI	SDCM	Uf (V)	If (mA)	P (W)	Efficacy (lm/W)
BA-LIN-Z3 1100-830 280X20	1334	3000	> 80	3	25.1	350	8.8	152
BA-LIN-Z3 1100-840 280X20	1389	4000	> 80	3	25.1	350	8.8	158
BA-LIN-Z3 1100-865 280X20	1389	6500	> 80	3	25.1	350	8.8	158
BA-LIN-Z3 2200-830 560X20	2668	3000	> 80	3	50.2	350	17.6	152
BA-LIN-Z3 2200-840 560X20	2777	4000	> 80	3	50.2	350	17.6	158
BA-LIN-Z3 2200-865 560X20	2777	6500	> 80	3	50.2	350	17.6	158
BA-LIN-Z3 4400-830 1120X20	5337	3000	> 80	3	100.4	350	35.1	152
BA-LIN-Z3 4400-840 1120X20	5555	4000	> 80	3	100.4	350	35.1	158
BA-LIN-Z3 4400-865 1120X20	5555	6500	> 80	3	100.4	350	35.1	158

Maximum current*

Product name	Flux (lm)	CCT (K)	CRI	SDCM	Uf (V)	If (mA)	P (W)	Efficacy (lm/W)
BA-LIN-Z3 770-830 280X20-HV	1605	3000	> 80	3	26.3	450	11.8	135
BA-LIN-Z3 770-840 280X20-HV	1670	4000	> 80	3	26.3	450	11.8	141
BA-LIN-Z3 1550-830 560X20-HV	3210	3000	> 80	3	52.6	450	23.7	135
BA-LIN-Z3 1550-840 560X20-HV	3341	4000	> 80	3	52.6	450	23.7	141
BA-LIN-Z3 3100-830 1120X20-HV	6420	3000	> 80	3	105.2	450	47.4	135
BA-LIN-Z3 3100-840 1120X20-HV	6682	4000	> 80	3	105.2	450	47.4	141

Product name	Flux (lm)	CCT (K)	CRI	SDCM	Uf (V)	If (mA)	P (W)	Efficacy (lm/W)
BA-LIN-Z3 1100-830 280X20	2140	3000	> 80	3	26.3	600	15.8	135
BA-LIN-Z3 1100-840 280X20	2227	4000	> 80	3	26.3	600	15.8	141
BA-LIN-Z3 1100-865 280X20	2227	6500	> 80	3	26.3	600	15.8	141
BA-LIN-Z3 2200-830 560X20	4280	3000	> 80	3	52.6	600	31.6	135
BA-LIN-Z3 2200-840 560X20	4455	4000	> 80	3	52.6	600	31.6	141
BA-LIN-Z3 2200-865 560X20	4455	4000	> 80	3	52.6	600	31.6	141
BA-LIN-Z3 4400-830 1120X20	8560	3000	> 80	3	105.2	600	63.1	135
BA-LIN-Z3 4400-840 1120X20	8909	4000	> 80	3	105.2	600	63.1	141
BA-LIN-Z3 4400-865 1120X20	8909	4000	> 80	3	105.2	600	63.1	141

Optical parameter

Product name	No. of LED	Pitch in mm
BA-LIN-Z3 770-8xx 280X20-HV	27	10.4 mm
BA-LIN-Z3 1550-8xx 560X20-HV	54	10.4 mm
BA-LIN-Z3 3100-8xx 1120X20-HV	108	10.4 mm
BA-LIN-Z3 1100-8xx 280X20	36	7.8 mm
BA-LIN-Z3 2200-8xx 560X20	72	7.8 mm
BA-LIN-Z3 4400-8xx 1120X20	144	7.8 mm

Temperature ratings

Tp (performance temperature)	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

Modularity Non-isolated

OTi (wide window driver – Non-isolated)

Basic Linear G3 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.

				LEDset - dimmable				LEDset – non dimmable			
	V	mA	W	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	OT FIT 25/220-240/300 D LT2 L	OT FIT 35/220-240/350D LT2 L OT FIT 35/220...240/350 D NFC	OT FIT 75/220-240/550 D LT 2 L OT FIT 75/220...240/550 D NFC	OT FIT 120/220-240/750 D LT 2
770lm LE	24.6	200	4.9	3-7 3-7s1-2p	3-12 3-9s1-2p	6-18 3-9s2-3p	6-18 3-9s2-5p	1-5 1-5s1p	3-7 3-7s1p	3-14 3-8s1-2p	6-24 3-8s2-3p
1100lm LE	24.6	250	6.1	1-6 1-6s1p	3-9 1-9s1-2p	3-14 3-9s1-2p	3-14 3-9s1-4p	1-4 1-4s1p	3-5 1-5s1p	3-12 3-8s1-2p	3-18 3-8s1-3p
1550lm LE	49.3	200	9.8	1-3 2-3s1-2p	2-6 2-4s1-2p	4-8 2-4s2-3p	4-8 2-4s2-5p	1-2 1-2s1p	2-3 2-3s1p	2-6 2-4s1-2p	4-12 2-4s2-3p
2200lm LE	49.1	250	12.3	1-3 1-3s1p	2-4 2-4s1-2p	2-6 2-4s1-2p	2-6 2-4s1-4p	1-2 1-2s1p	2 2s1p	2-6 2-4s1-2p	2-9 2-4s1-3p
3100lm LE	98.6	200	19.7	1	1-2 1-2s1-2p	2-4 1-2s2-3p	2-4 1-2s2-5p	1	1	1-2 1-2s1-2p	1-6 1-2s2-3p
4400lm LE	98.2	250	24.5	1	1-2 1-2s1-2p	1-2 1-2s1-2p	1-3 1-2s1-4p	1	1	1-2 1-2s1-2p	1-4 1-2s1-3p
5FT non-SELV (770+3100lm LE)	123.2	250	24.6	1	1-2 1s1-2p	2-3 1s2-3p	2-3 1s2-3p	1	1	1-2 1s1-2p	2-3 1s2-3p
5FT non-SELV (1100+4400lm LE)	122.7	250	30.6	1	1	1-2 1s1-2p	1-2 1s1-2p	-	1	1-2 1s1-2p	1-3 1s1-3p

serial and combined serial-parallel connection

DIP-switch and Single current driver – (Non-isolated)

Basic Linear G3 is designed to be operated on ELEMENT/OT FIT 65 driver with current selection via DIP-switch or OT FIT drivers with single current output.

	ELEMENT												OT FIT						
	ELEMENT 18/220...240/350 D CS L				ELEMENT 40/220...240/350 D CS L				ELEMENT 60/220...240/350 D CS L				OT FIT 50/220-240/250 D L	OT FIT 50/220-240/300 D L	OT FIT 50/220-240/350 D L	OT FIT 65 / 220 – 240 / 350 D CS L			
	200mA	250mA	300mA	350mA	200mA	250mA	300mA	350mA	200mA	250mA	300mA	350mA	250mA	300mA	350mA	200mA	250mA	300mA	350mA
770lm LE	2	2	1-2	3-8	3-7	3-5	3-4	3-4	4-6	4-6	4-6	4-6	3-8	3-7	3-5	3-8	3-8	3-7	3-7
1100lm LE	2	2	2	3-8	3-7	3-5	3-4	3-4	4-6	4-6	4-6	4-6	3-8	3-7	3-5	3-8	3-8	3-7	3-7
1550lm LE	1	1	1	2-4	2-3	2	2	2	2-3	2-3	2-3	2-3	2-4	2-3	2	2-4	2-4	2-3	2-3
2200lm LE	1	1	1	2-4	2-3	2	2	2	2-3	2-3	2-3	2-3	2-4	2-3	2	2-4	2-4	2-3	2-3
3100lm LE	0	0	0	1-2	1	1	1	1	1	1	1	1	1-2	1	1	1-2	1-2	1	1
4400lm LE	0	0	0	1-2	1	1	1	1	1	1	1	1	1-2	1	1	1-2	1-2	1	1
5FT non-SELV (770+3100lm LE)	0	0	0	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1
5FT non-SELV (1100+4400lm LE)	0	0	0	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1

Seriell connection

Lifetime

BA-LIN-Z3 770 / 1550 / 3100

		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	41.000	
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	34.000	38.000	
tp [°C] = 55	I rated	> 70.000	> 70.000	67.000	> 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	70.000	30.000	34.000	
tp [°C] = 70	I rated	> 70.000	> 70.000	60.000	68.000	29.000	32.000	
tp [°C] = 75	I rated	> 70.000	> 70.000	58.000	65.000	28.000	31.000	

BA-LIN-Z3 1100 / 2200 / 4400

		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	41.000	
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	34.000	38.000	
tp [°C] = 55	I rated	> 70.000	> 70.000	67.000	> 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	70.000	30.000	34.000	
tp [°C] = 70	I rated	> 70.000	> 70.000	60.000	68.000	29.000	32.000	
tp [°C] = 75	I rated	> 70.000	> 70.000	58.000	65.000	28.000	31.000	

		LxBy						
		x	70		80		90	
		y	10	50	10	50	10	50
		[mA]	Lifetime [h]					
tp [°C] = 40	200	> 70.000	> 70.000	65.000	> 70.000	31.000	37.000	
	250	> 70.000	> 70.000	63.000	> 70.000	31.000	36.000	
	300	> 70.000	> 70.000	62.000	> 70.000	31.000	35.000	
	350	> 70.000	> 70.000	61.000	> 70.000	29.000	34.000	
tp [°C] = 50	200	> 70.000	> 70.000	57.000	68.000	27.000	32.000	
	250	> 70.000	> 70.000	56.000	67.000	26.000	31.000	
	300	> 70.000	> 70.000	55.000	66.000	26.000	31.000	
	350	> 70.000	> 70.000	54.000	65.000	25.000	30.000	
tp [°C] = 60	200	> 70.000	> 70.000	51.000	61.000	24.000	28.000	
	250	> 70.000	> 70.000	50.000	60.000	23.000	28.000	
	300	> 70.000	> 70.000	49.000	59.000	23.000	27.000	
	350	> 70.000	> 70.000	48.000	58.000	23.000	27.000	
tp [°C] = 70	200	> 70.000	> 70.000	46.000	55.000	21.000	25.000	

	250	> 70.000	> 70.000	45.000	54.000	21.000	25.000
	300	> 70.000	> 70.000	44.000	53.000	21.000	24.000
	350	70.000	> 70.000	43.000	52.000	20.000	24.000
tp [°C] = 75	200	70.000	> 70.000	43.000	52.000	20.000	24.000
	250	68.000	> 70.000	43.000	51.000	20.000	23.000
	300	68.000	> 70.000	42.000	50.000	19.000	23.000
	350	66.000	> 70.000	41.000	49.000	19.000	23.000

Ordering Codes

Product name	EAN (single product)	Order type	Shipping Unit
BA-LIN-Z3 770-830 280X20-HV	4052899607569	ATO	240 x 1
BA-LIN-Z3 770-840 280X20-HV	4052899607576	ATO	240 x 1
BA-LIN-Z3 1550-830 560X20-HV	4052899607613	ATO	240 x 1
BA-LIN-Z3 1550-840 560X20-HV	4052899607620	ATO	240 x 1
BA-LIN-Z3 3100-830 1120X20-HV	4052899607668	ATO	240 x 1
BA-LIN-Z3 3100-840 1120X20-HV	4052899607675	ATO	240 x 1
BA-LIN-Z3 1100-830 280X20	4052899607583	ATO	240 x 1
BA-LIN-Z3 1100-840 280X20	4052899607590	ATO	240 x 1
BA-LIN-Z3 1100-865 280X20	4052899607606	MTO	240 x 1
BA-LIN-Z3 2200-830 560X20	4052899607637	ATO	120 x 1
BA-LIN-Z3 2200-840 560X20	4052899607644	ATO	120 x 1
BA-LIN-Z3 2200-865 560X20	4052899607651	MTO	120 x 1
BA-LIN-Z3 4400-830 1120X20	4052899607682	ATO	120 x 1
BA-LIN-Z3 4400-840 1120X20	4052899607699	ATO	120 x 1
BA-LIN-Z3 4400-865 1120X20	4052899607705	MTO	120 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 = 350V for operation on non-isolated and SELV LED controlgear.

Disclaimer

Subject to change without notice. Errors and omission accepted. Always make sure to use the most recent release. The latest release of the datasheet is available under the following link www.osram.com

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The OSRAM logo is displayed in a bold, orange, sans-serif font.