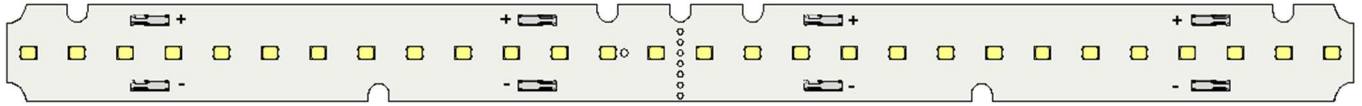


LINEAR LM 1100lm 11in 8xx



Product features

- Module efficacy: up to 200 lm/W
- Available with color temperature: 3000K, 3500K, 4000K and 5000K
- Further color temperatures by demand
- High initial color consistency: ≤ 3 SDCM
- Average lifetime (L80 B50): >100,000 h (temperature at $T_c = 55^\circ\text{C}$)
- UL Recognized

Product family benefits

- LED module for industry and office application
- Long lifetime support
- High energy efficacy and long lifetime provide optimized total cost of ownership
- Slim width and Zhaga compliant form factor provide excellent design-in options and assembly
- Adjustable luminous flux, efficacy and lifetime
- System approach (LED Module + Driver)

Areas of application

- Industry
- Office
- Retail



Technical data

Electrical data

Parameter	Min	Typ	Max
Nominal voltage	37.9 V	38.2 V	38.5 V
Nominal current		150 mA	
Type of current		DC	
On-mode power		5.8 W	
Energy consumption in on mode		5.8 kWh/1000h	

Note: voltage tolerance +/- 0.7%

Photometrical data (simulation by Tp 45°C and nominal current 150mA)

Correlated color temperature CCT	3000 K	3500 K	4000 K	5000 K
Useful luminous flux (Φ_{use})	990 ... 1130 lm	1020 ... 1170 lm	1060 ... 1214 lm	1060 ... 1214 lm
Luminous efficacy	185 lm/W	191 lm/W	198 lm/W	198 lm/W
Color Rendering Index	80	80	80	80
Colour consistency (McAdam ellipses)	< 3	< 3	< 3	< 3
R9	> 0	> 0	> 0	> 0

Note: Lumen output tolerance +/- 7%

Light technical data

Starting time	0 s
Warm-up time (60 %)	0 s
Rated beam angle	120°

Absolute ratings

Current through the LED module (I-max)	400 mA
Case temperature (Tc-max)	85 °C
Working voltage (U-max)	60 Vdc

The maximum suggested current given is for a typical non-lensed luminaire design with good thermal transfer capability. Luminaires with non-optimal thermal behavior will require a current reduction to meet the same maximum Case temperature. The thermal testing must be used to verify Tc-life is never exceeded for your specific luminaire.

LED module information

Number of LEDs per module	28
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LIN-1100-830-11in-1R

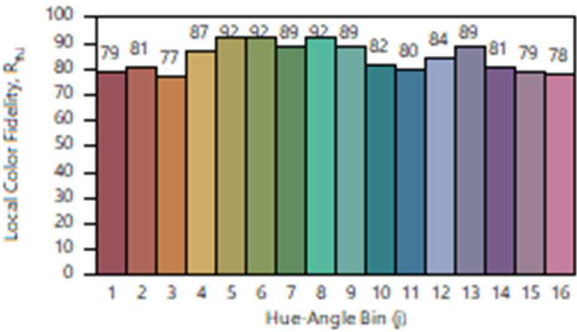
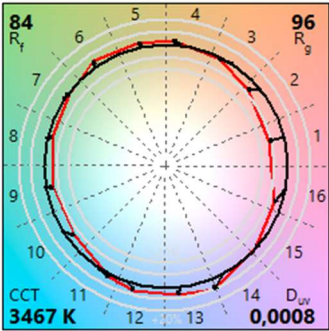
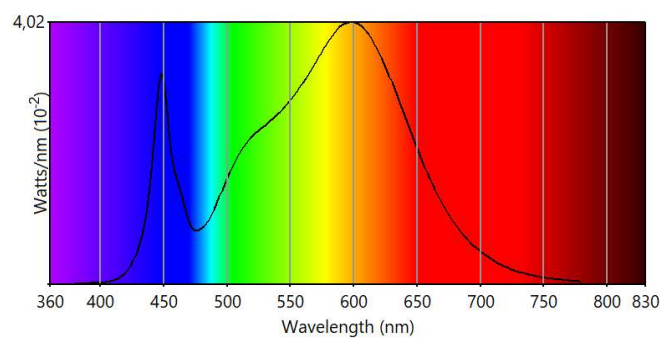
Forward Current (mA)	Forward Voltage (V)	Power Consumption (W)	Flux Output (lm)	Efficacy (lm/W)
100	37.6	3.8	717	190
120	37.9	4.6	856	188
140	38.1	5.4	992	186
150	38.2	5.8	1060	185
160	38.3	6.2	1127	184
180	38.5	7.0	1261	182
200	38.7	7.8	1394	180
220	38.9	8.6	1526	178
240	39.1	9.4	1658	177
260	39.2	10.2	1790	175
280	39.4	11.1	1922	174
300	39.6	11.9	2053	173
320	39.8	12.8	2184	171
340	40.0	13.6	2316	170
360	40.2	14.5	2446	169
400	40.6	16.3	2705	167

Note: voltage tolerance +/- 0.7%, Lumen output tolerance +/- 7%

LIN-1100-835-11in-1R

Forward Current (mA)	Forward Voltage (V)	Power Consumption (W)	Flux Output (lm)	Efficacy (lm/W)
100	37.6	3.8	741	197
120	37.9	4.6	884	194
140	38.1	5.4	1025	192
150	38.2	5.8	1095	191
160	38.3	6.2	1164	190
180	38.5	7.0	1302	188
200	38.7	7.8	1440	186
220	38.9	8.6	1577	184
240	39.1	9.4	1713	182
260	39.2	10.2	1849	181
280	39.4	11.1	1985	179
300	39.6	11.9	2121	178
320	39.8	12.8	2256	177
340	40.0	13.6	2392	175
360	40.2	14.5	2527	174
400	40.6	16.3	2794	172

Note: voltage tolerance +/- 0.7%, Lumen output tolerance +/- 7%



LIN-1100-840-11in-1R

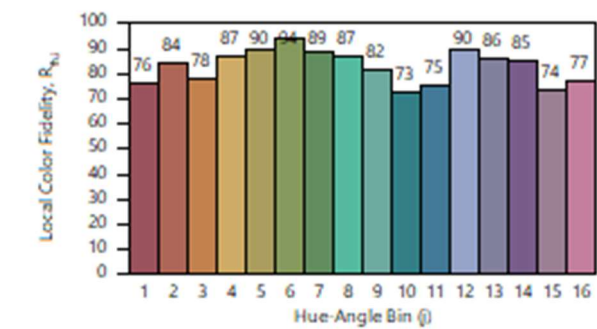
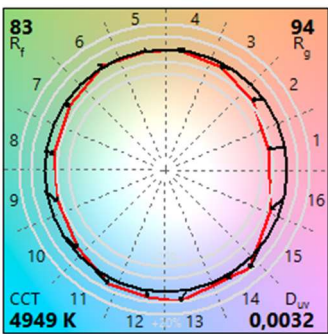
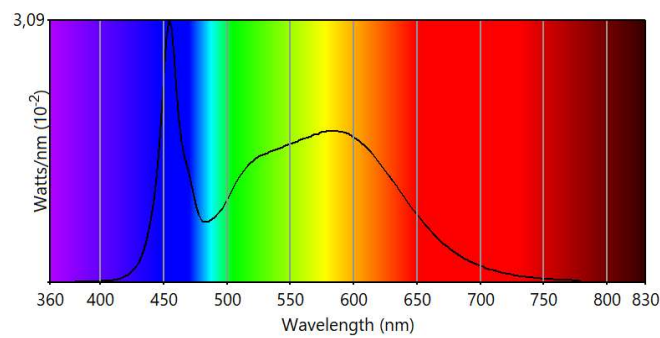
Forward Current (mA)	Forward Voltage (V)	Power Consumption (W)	Flux Output (lm)	Efficacy (lm/W)
100	37.6	3.8	768	204
120	37.9	4.6	916	201
140	38.1	5.4	1062	199
150	38.2	5.8	1135	198
160	38.3	6.2	1207	196
180	38.5	7.0	1350	194
200	38.7	7.8	1492	192
220	38.9	8.6	1634	191
240	39.1	9.4	1776	189
260	39.2	10.2	1917	187
280	39.4	11.1	2058	186
300	39.6	11.9	2198	184
320	39.8	12.8	2339	183
340	40.0	13.6	2479	182
360	40.2	14.5	2619	181
400	40.6	16.3	2897	178

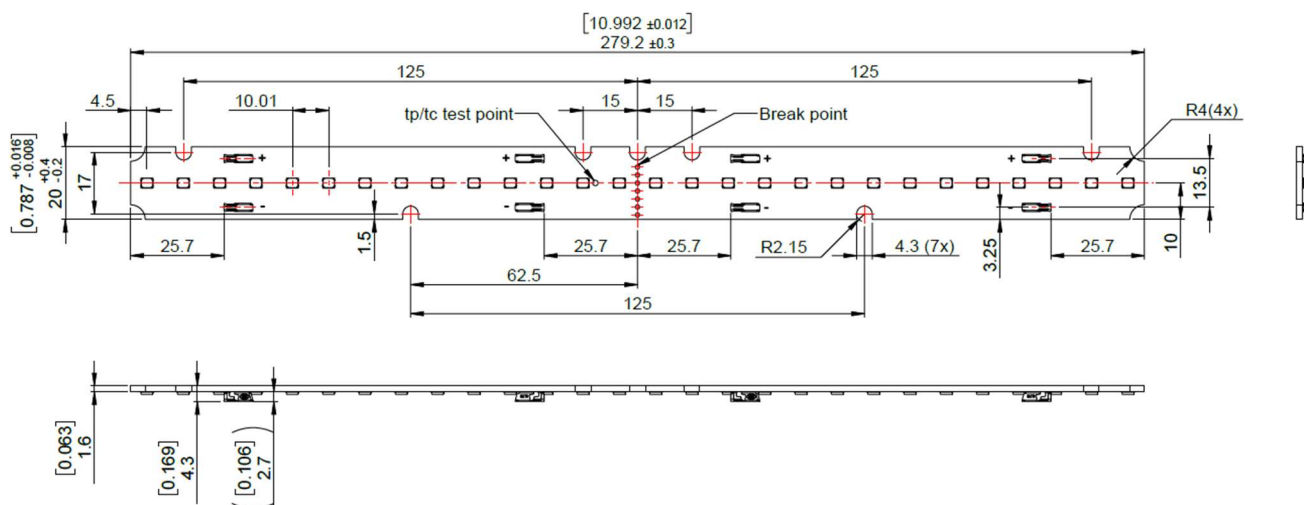
Note: voltage tolerance +/- 0.7%, Lumen output tolerance +/- 7%

LIN-1100-850-11in-1R

Forward Current (mA)	Forward Voltage (V)	Power Consumption (W)	Flux Output (lm)	Efficacy (lm/W)
100	37.6	3.8	768	204
120	37.9	4.6	916	201
140	38.1	5.4	1062	199
150	38.2	5.8	1135	198
160	38.3	6.2	1207	196
180	38.5	7.0	1350	194
200	38.7	7.8	1492	192
220	38.9	8.6	1634	191
240	39.1	9.4	1776	189
260	39.2	10.2	1917	187
280	39.4	11.1	2058	186
300	39.6	11.9	2198	184
320	39.8	12.8	2339	183
340	40.0	13.6	2479	182
360	40.2	14.5	2619	181
400	40.6	16.3	2897	178

Note: voltage tolerance +/- 0.7%, Lumen output tolerance +/- 7%





Lumen maintenance

		Operation current	LxBy					
		x	70		80		90	
		y	10	50	10	50	10	50
tc [°C] =	45	I = 150 mA	100000	100000	100000	100000	63000	71000
		I = 200 mA	100000	100000	100000	100000	62000	70000
		I = 250 mA	100000	100000	100000	100000	61000	69000
		I = 300 mA	100000	100000	100000	100000	60000	68000
		I = 350 mA	100000	100000	100000	100000	59000	66000
		I = 400 mA	100000	100000	100000	100000	58000	66000
tc [°C] =	55	I = 150 mA	100000	100000	100000	100000	56000	64000
		I = 200 mA	100000	100000	100000	100000	56000	63000
		I = 250 mA	100000	100000	100000	100000	54000	62000
		I = 300 mA	100000	100000	100000	100000	54000	61000
		I = 350 mA	100000	100000	100000	100000	53000	60000
		I = 400 mA	100000	100000	100000	100000	52000	59000
tc [°C] =	65	I = 150 mA	100000	100000	100000	100000	51000	57000
		I = 200 mA	100000	100000	100000	100000	50000	57000
		I = 250 mA	100000	100000	100000	100000	49000	55000
		I = 300 mA	100000	100000	99000	100000	48000	55000
		I = 350 mA	100000	100000	97000	100000	47000	54000
		I = 400 mA	100000	100000	96000	100000	47000	53000
tc [°C] =	75	I = 150 mA	100000	100000	94000	100000	46000	52000
		I = 200 mA	100000	100000	93000	100000	45000	51000
		I = 250 mA	100000	100000	91000	100000	44000	50000
		I = 300 mA	100000	100000	91000	100000	44000	50000
		I = 350 mA	100000	100000	89000	100000	43000	49000
		I = 400 mA	100000	100000	88000	100000	43000	48000
tc [°C] =	85	I = 150 mA	100000	100000	86000	100000	41000	47000
		I = 200 mA	100000	100000	85000	99000	41000	46000
		I = 250 mA	100000	100000	84000	97000	40000	46000
		I = 300 mA	100000	100000	83000	97000	40000	45000
		I = 350 mA	100000	100000	82000	95000	39000	44000
		I = 400 mA	100000	100000	81000	94000	39000	44000

Additional product data

Lighting technology used	LED
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Certificates & application

Standards	UL Recognized
Environmental	RoHS/Reach
Type of protection	IP00
Overheating Protection	No
Dimming	Yes

Logistical Data

Product description	9-part number	EAN10	EAN40	Shipping Units per Box
LIN-1100-830-11in-1R	Tbd.	6942736245741	6942736245758	100
LIN-1100-835-11in-1R	9AM5433600O60-0000	6937186198440	6937186198631	100
LIN-1100-840-11in-1R	9AM5433700O60-0000	6937186198457	6937186198648	100
LIN-1100-850-11in-1R	9AM5433800O60-0000	6937186198464	6937186198655	100

The mentioned product code describes the smallest quantity unit which can be ordered. One shipping unit can contain one or more single products. When placing an order, for the quantity please enter single or multiples of a shipping unit

Safety Information:

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

The modules are intended for operation with matching INVENTRONICS Drivers.

To also ease the luminaire/installation approval, electronic control gear for LED or LED modules should carry the UL mark.

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 regarding 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/TR 62471, risk group RG 2 by nominal current
- Use the LED Modules on control-gear with max. voltage U-out < 60V.
- The LED Module can't be powered on outside the complete luminaire or without appropriate protection.

Sales and technical support:

INVENTRONICS

2825 S. Tulsa Avenue
Oklahoma City OK 73108
United States
www.inventronicsglobal.com

Sales and technical support are given by the local INVENTRONICS subsidiaries.

On our worldwide homepage all INVENTRONICS subsidiaries are listed with complete address and phone numbers.

Disclaimer

Subject to change without notice. Errors and omission excepted. Always make sure to use the most recent release.