

- High performance Samsung LED with proven high performance. World's best efficacy with phosphor conversion technology.
- Anti-sulfurisation technology for long term reliability.
- Advanced flip-chip with reflective layer-formation.
- EMC packaging outperforms traditional PPA/PCT materials.

### Proformax 50



### Proformax 280



### Proformax 560



## SPECIFICATIONS

### Colour rendering index

CRI: > 90

### Colour tolerance

3 MacAdam (3SDCM)

### Beam angle emission

120 degrees

### Ambient temperature

Ta: -25 ... +55 °C

(Only for Tc ≤ 85 °C)

### Module temperature

Tc max: > 85 °C

### Life time

> 80,000 h - L80 B10 @ 82K hours

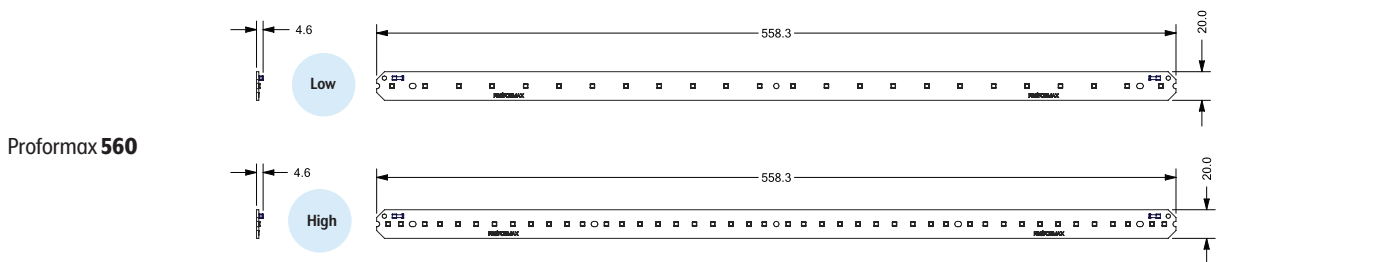
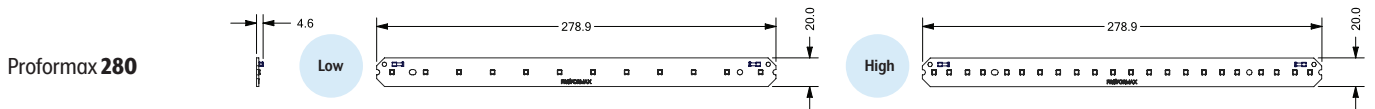
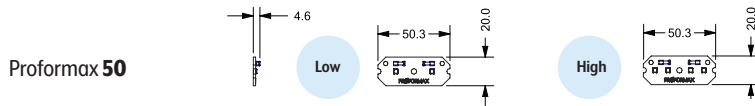
(@ Tc = 55 °C / Ipk)

## NOTES

- Data can have a 10% tolerance.
- Push in terminal blocks.
- Suitable for NON SELV applications (distance between the voltage part of the board and the border ≥ 3mm).
- Special CCT or CRI available upon request.
- Modules are not equipped against voltage spikes, overloads and short circuits.

	CODE	CCT K	CURRENT mA	FLUX Tc 25 °C lm	FLUX Tc 65 °C lm	POWER Tc 65 °C W	EFFICACY Tc 25 °C lm/W	EFFICACY Tc 65 °C lm/W	I <sub>max</sub> mA	V <sub>max</sub> Tc 25 °C @I <sub>max</sub>	
<b>Proformax 50</b>	X-246-30K	3000K	200	93	90	0.5	167	158	400	2.7	
			250	115	110	0.7	163	154	400	2.8	
			350	158	150	1.0	157	149	400	2.8	
	X-246-40K	4000K	200	99	100	0.5	167	158	400	2.7	
			250	123	120	0.7	163	154	400	2.8	
			350	168	160	1.0	157	149	400	2.8	
	X-243-30K	3000K	200	187	180	1.0	167	158	400	5.4	
			250	231	220	1.4	163	154	400	5.6	
			350	315	300	2.0	157	149	400	5.7	
		X-243-40K	4000K	200	199	190	1.0	167	158	400	5.4
				250	245	230	1.4	163	154	400	5.6
				350	335	320	2.0	157	149	400	5.7
<b>Proformax 280</b>	X-245-30K	3000K	200	561	530	3.4	167	158	400	16.7	
			250	692	650	4.2	163	154	400	16.9	
			350	945	880	6.0	157	149	400	17.2	
	X-245-40K	4000K	200	597	560	3.4	167	158	400	16.7	
			250	736	690	4.2	163	154	400	16.9	
			350	1006	940	6.0	157	149	400	17.2	
	X-242-30K	3000K	200	1028	960	6.1	167	158	400	31.6	
			250	1268	1180	7.7	163	154	400	31.0	
			350	1733	1620	11.0	157	149	400	30.7	
		X-242-40K	4000K	200	1094	1020	6.1	167	158	400	31.6
				250	1350	1260	7.7	163	154	400	31.0
				350	1845	1720	11.0	157	149	400	30.7
<b>Proformax 560</b>	X-244-30K	3000K	200	1121	1050	6.6	167	158	400	33.5	
			250	1383	1290	8.3	163	154	400	33.8	
			350	1891	1760	11.8	157	149	400	34.4	
	X-244-40K	4000K	200	1194	1120	6.6	167	158	400	33.5	
			250	1473	1370	8.3	163	154	400	33.8	
			350	2013	1880	11.8	157	149	400	34.4	
	X-241-30K	3000K	200	2056	1920	13.2	167	158	400	67.0	
			250	2536	2360	16.6	163	154	400	67.6	
			350	3467	3230	23.6	157	149	400	68.6	
		X-241-40K	4000K	200	2188	2040	13.2	167	158	400	67.0
				250	2700	2520	16.6	163	154	400	67.6
				350	3690	3440	23.6	157	149	400	68.6

## DIMENSIONS



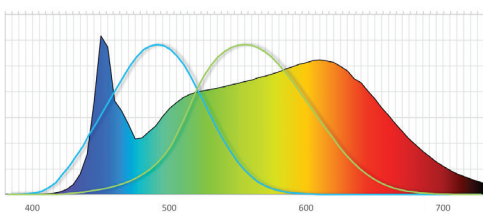
## COLOUR QUALITY

Light is one of the main drivers of the circadian system, which starts in the brain and regulates physiological rhythms throughout the body's tissues and organs, affecting hormone levels and the sleep-wake cycle.

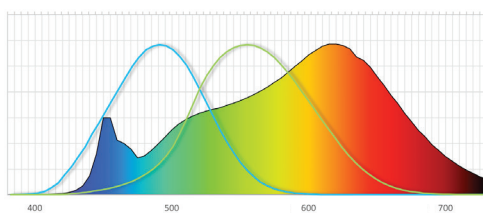
The Melanopic lux ratio is shown for the Well Building standard. For more information on Circadian lighting design, please visit: <https://v2.wellcertified.com>



### 4000K Melanopic Ratio 0.753



### 3000K Melanopic Ratio 0.577



● Circadian ● Visual

### CRI [Ra]

#### Tm 30-15

	Rf Fidelity	Rg Gamut
3000K	90.7	99.0
4000K	88.8	99.3

