



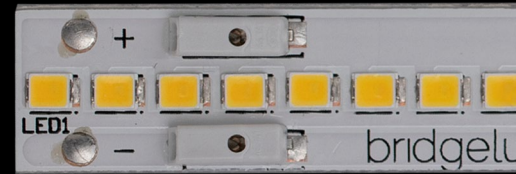
Bridgelux® EB Series™ Slim Gen 3

Product Data Sheet DS171



Introduction

EB Series™



EB Slim Gen 3 linear modules are designed for use in premium indoor applications where high efficacy is required. The new generation uses the high-efficacy SMDs to achieve over 200lm/W, which enables designers and fixture manufacturers to meet DLC Premium requirements. They are designed for linear troffers, pendants and other luminaires in indoor commercial applications.

Available in 340 mm, 590 mm, and 1190 mm lengths, the modules can be connected end-to-end thereby providing flexibility in designing luminaires. The "slim" width of the module enables easy integration into space constrained luminaires. These modules are easily mountable and offer reusable poke-in connectors. The modules have long lifetimes of greater than 50,000 hours.

Features

- High efficacy of up to 200 lm/W (nominal)
- Available in both 80 CRI and 90 CRI
- Available in a variety of color temperatures from 2700K to 5700K
- Wide lumen range with 2.4x overdrive capability
- Long lifetime (L80, B50 > 50,000 hours)

Benefits

- Achieve over 200 lm/W by under-driving
- Heat-sinking may not be required at low drive currents
- Reliable use at elevated currents for greater design flexibility
- Easy installation using mounting holes and poke-in connectors



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Product Selection Guide

Table 1: Product Performance ($T_c = 25^\circ \text{C}$)

Part Number	Nominal CCT ¹ (K)	Min CRI	Typical Flux ^{2,3} $T_c = 25^\circ \text{C}$ (lm)	Nominal Drive Current (mA)	Typical V_f (V)	Typical Power (W)	Typical Efficacy (lm/W)
BXEB-L0340U-27E0750-C-C3	2700	80	1360	700	10.9	7.6	178
BXEB-L0340U-27G0750-C-C3		90	1190				156
BXEB-L0340U-30E0750-C-C3	3000	80	1425				186
BXEB-L0340U-30G0750-C-C3		90	1255				164
BXEB-L0340U-35E0750-C-C3	3500	80	1425				186
BXEB-L0340U-35G0750-C-C3		90	1255				164
BXEB-L0340U-40E0750-C-C3	4000	80	1530				200
BXEB-L0340U-40G0750-C-C3		90	1255				164
BXEB-L0340U-50E0750-C-C3	5000	80	1530				200
BXEB-L0340U-50G0750-C-C3		90	1255				164
BXEB-L0340U-57E0750-C-C3	5700	80	1530				200
BXEB-L0340U-57G0750-C-C3		90	1255				164
BXEB-L0590U-27E1500-C-C3	2700	80	2380	700	19.1	13.4	178
BXEB-L0590U-27G1500-C-C3		90	2085				156
BXEB-L0590U-30E1500-C-C3	3000	80	2490				186
BXEB-L0590U-30G1500-C-C3		90	2195				164
BXEB-L0590U-35E1500-C-C3	3500	80	2490				186
BXEB-L0590U-35G1500-C-C3		90	2195				164
BXEB-L0590U-40E1500-C-C3	4000	80	2675				200
BXEB-L0590U-40G1500-C-C3		90	2195				164
BXEB-L0590U-50E1500-C-C3	5000	80	2675				200
BXEB-L0590U-50G1500-C-C3		90	2195				164
BXEB-L0590U-57E1500-C-C3	5700	80	2675				200
BXEB-L0590U-57G1500-C-C3		90	2195				164
BXEB-L1190U-27E3000-C-C3	2700	80	4760	700	38.2	26.8	178
BXEB-L1190U-27G3000-C-C3		90	4160				155
BXEB-L1190U-30E3000-C-C3	3000	80	4980				186
BXEB-L1190U-30G3000-C-C3		90	4390				164
BXEB-L1190U-35E3000-C-C3	3500	80	4980				186
BXEB-L1190U-35G3000-C-C3		90	4390				164
BXEB-L1190U-40E3000-C-C3	4000	80	5350				200
BXEB-L1190U-40G3000-C-C3		90	4390				164
BXEB-L1190U-50E3000-C-C3	5000	80	5350				200
BXEB-L1190U-50G3000-C-C3		90	4390				164
BXEB-L1190U-57E3000-C-C3	5700	80	5350				200
BXEB-L1190U-57G3000-C-C3		90	4390				164

Notes for Table 1:

1. Nominal CCT as defined by ANSI C78.377-2011.
2. Data is at nominal test current where temperature of center case temperature point $T_c = 25^\circ \text{C}$.
3. Bridgelux maintains a $\pm 7\%$ tolerance on flux data.